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OF THE
UNIVERSITY OF WASHINGTON
FOR 1928



SEATTLE, WASHINGTON

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NOTICE

The University and its various colleges and schools reserve the right to change the rules regulating admission to, instruction in and graduation from the University and its various divisions, and any other regulations affecting the student body. Such regulations shall go into force whenever the proper authorities may determine, and shall apply not only to prospective students but also to those who may, at such time, be matriculated in the University. The University also reserves the right to withdraw courses at any time.

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Note.—See Index, page 526, for detailed information.

THE UNIVERSITY CALENDAR

1928-1929

AUTUMN QUARTER

Examination for admission.....Wednesday, Thursday, Friday, September 19, 20, 21.
Latest day for securing reserved sections by payment of fees..Tuesday, Sept. 18, 4:30 p.m.
Latest day for registration without penalty.....Wednesday, September 26, 4:30 p.m.
Freshman Week.....Begins Thursday, September 27, 8:30 a.m.; ends Saturday,
September 29, 10:30 p.m.
Instruction begins.....Monday, October 1, 8 a.m.
Regular meeting of faculty.....Tuesday, October 23, 4 p.m.
Latest day for receiving W's without grade.....Saturday, October 27, 12 m.
Thanksgiving recess begins.....Wednesday, November 28, 6 p.m.
Thanksgiving recess ends.....Monday, December 3, 8 a.m.
Regular meeting of faculty.....Tuesday, December 11, 4 p.m.
Examination for admission.....Wednesday, Thursday, Friday, December 19, 20, 21.
Instruction ends.....Thursday, December 20, 6 p.m.

WINTER QUARTER

Latest day for securing reserved sections by payment of fees..Thursday, Dec. 20, 4:30 p.m.
Latest day for registration without penalty.....Saturday, January 5, 12 m.
Instruction begins.....Monday, January 7, 8 a.m.
Regular meeting of faculty.....Tuesday, January 29, 4 p.m.
Latest day for receiving W's without grade.....Saturday, February 2, 12 m.
Washington's birthday (holiday).....Friday, February 22.
Regular meeting of the faculty.....Tuesday, March 12, 4 p.m.
Examination for admission.....Monday, Tuesday, Wednesday, March 18, 19, 20.
Instruction ends.....Friday, March 22, 6 p.m.

SPRING QUARTER

Latest day for securing reserved sections by payment of fees..Friday, March 22, 4:30 p.m.
Latest day for registration without penalty.....Saturday, March 30, 12 m.
Instruction begins.....Monday, April 1, 8 a.m.
Regular meeting of faculty.....Tuesday, April 23, 4 p.m.
Latest day for receiving W's without grade.....Saturday, April 27, 12 m.
Campus day.....Friday, April 26.
Regular meeting of faculty.....Tuesday, June 4, 4 p.m.
Memorial day (holiday).....Thursday, May 30.
Instruction ends.....Friday, June 14, 6 p.m.
Class day and alumni day.....Saturday, June 15.
Baccalaureate Sunday.....Sunday, June 16.
Commencement.....Monday, June 17.
*College Entrance Board Examinations at Seattle, Tacoma, and Spokane..June 17 to 22 inc.

SUMMER QUARTER

1929-30

Latest day for securing reserved sections by payment of fees..Saturday, June 15, 4:30 p.m.
Instruction begins.....Tuesday, June 18, 8 a.m.
Latest day for receiving W's without grade (first term).....Tuesday, July 2, 4:30 p.m.
Independence day (holiday).....Thursday, July 4.
Latest day for receiving W's without grade (full quarter)....Tuesday, July 16, 4:30 p.m.
First term ends.....Wednesday, July 24, 6 p.m.
Second term begins.....Thursday, July 25, 8 a.m.
Latest day for receiving W's without grade (second term)....Thursday, August 8, 4:30 p.m.
Instruction ends.....Wednesday, August 28, 6 p.m.

*Note: Applicants for examination in June, 1929, should communicate before April 30 with the Secretary of the College Entrance Examination Board, 481 West 117 St., New York City.

THE BOARD OF REGENTS

A. H. B. JORDAN, President.....	Everett
Term ends March, 1934	
J. D. FARRELL, Vice-President.....	Seattle
Term ends March, 1929	
PAUL H. JOHNS, Secretary.....	Tacoma
Term ends March, 1932	
JOSEPH EDWARD LEASE.....	Centralia
Term ends March, 1929	
J. M. PERRY.....	Yakima
Term ends March, 1932	
ROSCOE A. BALCH.....	Spokane
Term ends March, 1933	
JAMES V. PATERSON.....	Seattle
Term ends March, 1934	

HERBERT THOMAS CONDON, Assistant Secretary to the Board

COMMITTEES OF THE BOARD OF REGENTS

BIOLOGICAL STATION.....	Paterson, <i>Chairman</i> ; Perry, Lease
COOPERATIONS.....	Perry, <i>Chairman</i> ; Lease, Paterson
STUDENT WELFARE.....	Lease, <i>Chairman</i> ; Balch, Perry
BUILDINGS AND GROUNDS.....	Johns, <i>Chairman</i> ; Jordan, Farrell
FINANCE.....	Johns, <i>Chairman</i> ; Balch, Farrell
LANDS AND DEMONSTRATION FOREST.....	Balch, <i>Chairman</i> ; Paterson, Jordan
METROPOLITAN LEASE.....	Farrell, <i>Chairman</i> ; Jordan, Johns

OFFICERS OF ADMINISTRATION

THE UNIVERSITY

MATTHEW LYLE SPENCER, Ph.D., LL.D.....	President of the University Education Hall
DAVID THOMSON, B.A.....	Dean of Faculties Education Hall
FREDERICK MORGAN PADELDFORD, Ph.D.....	Assistant Dean of Faculties Denny Hall
HERBERT THOMAS CONDON, LL.B.....	Comptroller Education Hall
EDWARD BICKNELL STEVENS, A.M.....	Registrar Education Hall
WINNIFRED SUNDERLIN HAGGETT, A.M.....	Dean of Women Education Hall

THE FACULTIES

IRVING MACKEY GLEN, A.M.....	Dean of the Faculty of Fine Arts Music Building
DAVID THOMSON, B.A.....	Dean of the Faculty of Letters Denny Hall
HENRY LANDES, A.M.....	Dean of the Faculty of Science Science Hall
CHARLES EMANUEL MARTIN, Ph.D.....	Dean of the Faculty of Social Science Philosophy Hall
CARL EDWARD MAGNUSSON, Ph.D., E.E.....	Dean of the Faculty of Technology Engineering Hall

THE COLLEGES AND SCHOOLS

DAVID THOMSON, B.A.....	Dean of the College of Liberal Arts Denny Hall
HENRY LANDES, A.M.....	Dean of the College of Science Science Hall
WILLIAM EDWARD COX, A.M.....	Dean of the College of Business Administration Commerce Hall
WILLIS LEMON UHL, Ph.D.....	Dean of the School of Education Education Hall
FREDERICK ELMER BOLTON, Ph.D.....	Dean Emeritus of the School of Education Education Hall
CARL EDWARD MAGNUSSON, Ph.D., E.E.....	Dean of the College of Engineering Engineering Hall
IRVING MACKEY GLEN, A.M.....	Dean of the College of Fine Arts Music Building
JOHN NATHAN COBB.....	Dean of the College of Fisheries Fisheries Hall
HUGO WINKENWERDER, M.F.....	Dean of the College of Forestry Anderson Hall
VERNON MCKENZIE, A.M.....	Dean of the School of Journalism Commerce Hall
ALFRED JOHN SCHWEPPE, A.M., LL.B.....	Dean of the School of Law Commerce Hall
WILLIAM ELMER HENRY, A.M.....	Dean of the Library School Library
MILNOR ROBERTS, A.B.....	Dean of the College of Mines Mines Laboratory
CHARLES WILLIS JOHNSON, Ph.C., Ph.D.....	Dean of the College of Pharmacy Bagley Hall
FREDERICK MORGAN PADELDFORD, Ph.D.....	Dean of the Graduate School Denny Hall

THE SUMMER QUARTER

HENRY ALFRED BURD, Ph.D.....	Director Education Hall
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THE EXTENSION SERVICE

HARRY EDWIN SMITH, Ph.D.....	Acting Director Education Hall
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THE UNIVERSITY FACULTY

Spencer, Matthew Lyle.....*President of the University*
 Thomson, David.....*Dean of Faculties*
 Padelford, Frederick Morgan.....*Assistant Dean of Faculties*
 Stevens, Edwin Bicknell.....*Secretary to the Faculty*

The University Faculty consists of instructors, associates, and all teachers of professorial rank. It is made up of five special faculties, constituted of the members of various departments as follows: (1) Faculty of Fine Arts: Architecture, Dramatic Art, Music, Painting, Sculpture and Design; (2) Faculty of Letters: Classical Languages, English, Germanic Languages, Liberal Arts, Oriental History, Romanic Languages, Scandinavian Languages; (3) Faculty of Science: Anatomy, Astronomy, Bacteriology, Botany, Chemistry, Geology, Home Economics, Mathematics, Nursing, Pharmacy, Physical Education and Hygiene, Physics, Physiology, Zoology; (4) Faculty of Social Science: Anthropology, Economics and Business Administration, Education, History, Journalism, Law, Library Science, Philosophy, Political Science, Psychology, Sociology; (5) Faculty of Technology: Aeronautical Engineering, Chemical Engineering, Civil Engineering, Electrical Engineering, Fisheries, Forestry, Mechanical Engineering, Military Science, Mining and Metallurgy, Naval Science.

In this list the names of the faculty are arranged in six groups—professors, associate professors, assistant professors, lecturers, instructors, and associates—followed by the names of the assistants and teaching fellows.

Appointments and promotions are listed on page 14. Appointments made after June, 1928, do not appear in this list.

FACULTY IN THE ORDER OF ACADEMIC SENIORITY

For alphabetical list with academic histories, see page 16.

PROFESSORS

<p>Landes, Henry Meany, Edmond Stephen Ober, Caroline Haven Kincaid, Trevor Padelford, Frederick Morgan Roberts, Milnor Savery, William Osborn, Frederick Arthur Thomson, David Johnson, Charles Willis Frein, Pierre Joseph Frye, Theodore Christian Moritz, Robert Edouard Magnusson, Carl Edward Lantz, Harvey Eastwood, Everett Owen Henry, William Elmer Hall, David Connolly Gowen, Herbert Henry Richardson, Oliver H. Goodner, Ivan Wilbur Glen, Irving Mackay More, Charles Church Benson, Henry Kreitzer Weinzirl, John</p>	<p>Winkenwerder, Hugo Parrington, Vernon Louis Bolton, Frederick Elmer Vickner, Edwin John Raitt, Effie Isabel Smith, Stevenson *Bissett, Clark Prescott Benham, Allen Rogers Ayer, Leslie James Cobb, John Nathan Dehn, William Maurice Woolston, Howard Smith, George McPhail Kirkland, Burt Persons Gould, James Edward Weaver, Charles Edwin Umphrey, George Wallace Worcester, John Locke *Preston, Howard Hall Randolph, Edgar Dunnington Loew, Edgar Allen Daniels, Joseph Kirsten, Friedrich Kurt Haggett, Winnifred Sunderlin Cox, William Edward</p>
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*Absent on leave.

Cory, Herbert Ellsworth	O'Bryan, Joseph Grattan
Dakan, Carl Spencer	Coon, S. J.
Wilson, George Samuel	Frame, Hugh Campbell
Harris, Charles William	Nottelman, R. H.
Martin, Charles Emanuel	¹ Harvey, E. L.
Eldred, Wilfred	¹ McKenzie, Vernon
Winger, Roy Martin	¹ Rigg, George Burton
Smith, Charles Wesley	¹ Rosen, Moritz
Carpenter, Allen Fuller	¹ Venino, Albert Franz
Cox, Edward Godfrey	¹ Wood, Carl Paige
McKenzie, Roderick Duncan	¹ Skinner, Macy Milmore
Schwepe, Alfred John	¹ Lynn, Eldin V.
Olding, James Perdue	¹ Langenhan, Henry August
Thomas, Harlan	¹ Guthrie, Edwin R.
Sidey, Thomas Kay	Wilson, Hewitt
² McMahon, Edward	¹ Leib, Karl E.
Winslow, Arthur Melvin	¹ Orr, Frederick W.
Tartar, Herman Vance	¹ Stuart, Graham
Burd, Henry Alfred	¹ Tibbetts, Charles S.
George, William Henry	¹ Uhl, Willis Lemon
Griffith, Dudley David	² Blake, Ralph M.

ASSOCIATE PROFESSORS

Milliman, Loren Douglas	Jessup, John
Patzer, Otto	Gavett, George I.
Brakel, Henry Louis	Lucas, Henry S.
Smith, Harry Edwin	Esper, Edwin A.
Goggio, Charles	Renner, George T.
Isaacs, Walter	Stone, Edward N.
Thompson, Thomas Gordon	McCurdy, W. H.
Jones, Robert William	Eckelman, Ernest Otto
Atkinson, Charles Raymond	¹ Smith, E. Victor
Denny, Grace Goldena	¹ Densmore, Harvey
May, Charles Culbertson	² MacNair, Harley F.
² Anderson, Samuel Herbert	¹ Hotson, John W.
Grondal, Bror Leonard	¹ Goodspeed, George E.
Gross, Mary Emma	¹ Williams, Curtis T.
¹ Guberlet, John Earl	¹ DeVries, Louis P.
² McMahon, Theresa Schmid	¹ Gregory, Homer E.
Newenham, Frances Dickey	¹ Wilcox, Elgin Roscoe
Harrison, Joseph Barlow	¹ Price, Maurice T.
	¹ Arbuthnot, James George

ASSISTANT PROFESSORS

Corey, Clarence Raymond	Muhlenberg, Henry Clinton
² Helmlinge, Charles Louis	Miller, Robert Cunningham
Neikirk, Lewis Irving	Greene, Royal
Collier, Ira Leonard	Goodrich, Forest Jackson
Van Ogle, Louise	McIntyre, Harry John
Shuck, Gordon Russell	Beuschlein, Warren Lord
Bliss, Addie Jeanette	Herrman, Arthur Phillip
Schaller, Gilbert Simon	Gowen, Lancelot Edward
Dvorak, August	Hayner, Norman Sylvester
Hoffstadt, Rachel Emilie	Meredith, Evan Kirkpatrick
² Hughes, Glenn Arthur	Pratt, Dudley
	² Rowtree, Jesse Irene

¹For the year 1928-1929.²Resigned.³Absent on leave.⁴For Appointments and Promotions, see page 14.

Williams, Laurin Lyman
 Warner, Frank Melville
 Powell, Sargent
 McMinn, Bryan Towne
 Edmonds, Robert Harold G.
 Hoard, Lisle George
 Smith, George Sherman
 Crawford, Donald Russell
 Miller, Alfred Lawrence
 *Cole, Kenneth Carey
 Lawrence, Charles Wilson
 Griffin, Eldon
 Ballantine, John Perry
 Hildebrand, Christian
 Zanstra, Herman
 Parks, Clarence Thomas
 Lovejoy, Albert
 Creer, Leland Hargrave
 Rice, Paul Hildreth
 Hamilton, James B.
 Worden, Ruth
 *Dresslar, Martha E.
 *Lusby, Ruth
 *Hughes, Cecil Leonard
 Draper, Edwin Marion
 Miller, John W.
 Alexander, J. L.
 Hill, Raymond
 Read, William A.
 Payne, Blanche

*Rivers, Elizabeth
 *Wait, Bernice
 Langford, Cooper H.
 Foster, Henry M.
 *Brownell, Mary M.
 Utterback, Clinton L.
 Hatch, M. H.
 Ashley, Paul
 Stern, Bernhard J.
 Small, George W.
 McKay, George
 Benson, Edna
 Mander, Linden A.
 Norris, Earl R.
 Brandstrom, Axel
 *Groth, J. H.
 *Chessex, Jean C. W.
 *Rahskopf, Horace
 *DeVries, Mary Aid
 *Mullemeister, Hermance
 *Foote, Hope Lucille
 *McGownd, Matilda Jane
 *Hawthorn, George E.
 *Van Horn, Robert B.
 *Winther, Sophus Keith
 *Garcia-Prada, Carlos
 *Bishop, Omen
 *Farquharson, Frederick Burt
 *Patterson, Ambrose

LECTURERS

*Clark, Elias Treat
 Powell, Frederick
 McConahey, James
 Robertson, James Postlewait
 Davis, Pearce Crane
 Osseward, Cornelius
 Magnusson, Gustaf Alfred
 Draper, Oscar Eldridge
 Sperlin, Ottis Bedney

Truax, Arthur
 Burdon, Minnie Bell
 Beardsley, Arthur S.
 Meisnest, Frederick
 Wade, Arthur E.
 Alden, Charles
 *Foisie, Frank P.
 Hauan, Merlin

INSTRUCTORS

Whittlesey, Walter Bell
 Gillette, Alletta
 Adams, Albert Porter
 Kirchner, George
 Rhodes, Helen
 *Sergev, Sergius I.
 Chittenden, Hiram Martin Jr.
 Quainton, Cecil Eden
 Lindblom, Roy Eric
 Eastman, Austin
 *Cramlet, Clyde Myron
 Lofgren, Frederick Valentine
 Bostwick, Irene Neilson
 Dobie, Edith

Sivertz, Victorian
 Jarvis, Norman Donald
 Christian, Byron
 Buck, Helen Marian
 Smith, Frederick Chamley
 Bergstrom, Theodore
 Van de Walker, Frank C.
 Rathbun, John M.
 Ware, James R.
 Allen, Ruth
 Dahlin, Ebba
 Eby, Edwin H.
 Ethel, Garland O.
 Eastman, Frederick S.

¹For the year 1928-1929.

²Resigned.

³Absent on leave.

⁴For Appointments and Promotions, see page 14.

Hulse, Granville G.
 Ingram, W. H.
 Miller, Charles J.
 Mentzer, Phoebe E.
 Rhodes, Fred L.
 Sanchez, Frederico
 Windesheim, Karl A.
 Weir, John
 Wilson, Francis G.
 Wilson, William
 Wilkinson, Madge
 *Schumacher, Elizabeth
 *Gundlach, Ralph
 *Calhoun, Charles E.

Graves, L. Wallis
 Thraillkill, W. L.
 *Purdy, Henry L.
 *Applegate, L. N.
 *Bird, Winfred
 *Snidow, Harriett
 *Simpson, Lurline
 *Pearce, Richard J.
 *Schultz, Leonard P.
 *Jerbert, Arthur Rudolph
 *Gunn, Elizabeth
 *Terrell, Mararet E.
 *Moritz, Harold K.
 *Rowlands, T. McKee

ASSOCIATES

Worman, Eugenie
 Radford, Ethel Sanderson
 Jones, Pamela Pearl
 Kerrigan, Sylvia Finlay
 Vickner, Bertha Almen
 Soule, Elizabeth
 Edmundson, Clarence
 Hamilton, Rachel Elizabeth
 Bagshaw, Enoch
 Buchanan, Iva
 Graves, Dorsett
 Lawson, Jane Sorrie
 Bogardus, Alice Colema:
 Alfonso, Marie
 Putnam, Marguerite
 Venino, Luella
 Lynch, Clara Bell
 Sutton, Wayne Campbell
 Hall, Amy Violet
 Newberry, Kirsten Larsson
 Wesner, Elenora
 Mabon, Laura Edna
 Crawford, Margaret
 Brown, Lois Eula
 Jackson, Kirby
 *Lewis, Hunter Campbell
 Wagenknecht, Edward C.
 Spellman, Bart
 Higgs, Paul
 Hamack, Frank Hartmond
 Helmich, Leone
 Terzieff, Ottilie
 *Hall, Anne Elizabeth
 Davies, Erma Nelson
 *Schmid, Calvin
 Martin, Marion Marguerite
 Ballaine, Genevieve Knight
 *Lang, J. W.
 Glover, Sheldon Latta

Southwick, Charles
 *Fuller, Eugenie
 *Adamson, Thelma
 Ankele, Felice C.
 Brodnax, Nancy Kate
 Brown, Sara H.
 Conway, John Ashley
 Corbally, John E.
 Cappon, Alexander C.
 Cederstrom, Moyle F.
 Foster, Frank K.
 Hathway, Marion
 Jacobs, Melville
 Jackson, Kirby
 Leahy, Kathleen N.
 Lovejoy, Cecyl B.
 McConihe, Aimee
 Marick, Louis
 Padelford, Morgan G.
 Peterson, Sigurd H.
 Phillips, Herbert
 Schertel, Max
 *Swingle, Ruth
 Ulbrickson, Alvin
 Wood, Florence
 Bauer, Hubert A.
 Blanchard, Fred
 *Cornu, Donald
 *Garcia, Eduardo C.
 *Gerdeman, Alice E.
 *Goodsell, Julia
 *Hansen, Bert B.
 *Mark, Sara N.
 *Nix, Martha
 *Pennington, Ruth
 *Seeman, Albert L.
 *Sheppard, Esther
 *Sanderman, L. A.

¹For the year 1928-1929.

²Resigned.

³Absent on leave.

⁴For Appointments and Promotions, see page 14.

ASSISTANTS FOR 1927-28

Botany

Angst, Ernest C., B.S.
Wittrock, Gus L., M.A.

Business Administration

Calhoun, Charles E., B.A.
Grant, Ruth A., B.B.A.
Happ, Howell C., B.B.A.
Johnson, Werner W., B.A.
King, Robert, B.B.A.
Mackenzie, Donald, M.B.A.
Smetheram, Francis E., B.B.A.
Swift, Helen, A.B.
Wann, Arva, B.B.A.

Dramatic Art

Blanchard, Fred, B.A.

English

Atkinson, Dorothy F., B.A.
Beal, Maud L., B.A.
Burgess, Jennie Potgieter, B.A.
Cooper, Isabel D., B.A.
Mark, Sara Norris, B.A.

Nix, Martha, M.A.
Walters, Margaret C., M.A.
Whicker, Harold W., B.A.
Windhusen, Anne E., B.A.

History

Robe, Cecil L., B.A.

Home Economics

Davis, Martha, B.S.
Jacobs, Winifred, B.S.
McIntosh, Mildred, B.S.

Music

Bamford, Ruth, B.Mus.
Burns, Nina, B.Mus.

Physical Education for Men

Jefferson, William
Rickey, C. T.

Physical Education for Women

Cundiff, Velda, B.S.
Duncan, Margaret, B.S.

Psychology

Hermans, Thomas, M.A.

TEACHING FELLOWS FOR 1927-28

Bacteriology

Adams, Helen Elmira, B.A.
Church, Ruth, B.S. in Ed.
Gerdeman, Alice E., B.A.
Stewart, Emma Jo, M.S.
Thompson, Randall L., B.S.

Botany

Damson, John C., B.S.
Fouts, Marcia, B.S.
Scheffer, Theodore C., B.F.

Business Administration

Aitken, James, B.A.
Hanson, Alice, B.A.
Harward, Harold, B.S.
Lewis, Russell, B.A.
Lindahl, Martin, M.A.
Purdy, Harry L., B.A.
Wilson, Frank A., B.A.

Geology

Flagler, Charles W., B.S.
Fuller, Richard E., M.S.
Sturgis, Isabel, B.S.
Weymouth, A. Allen, B.S.

German

Rhodo, Selma W., B.A.

Mathematics

Fitch, Arthur L., B.A.
Luse, Vera, B.S.
Neville, Betty, A.B.
Spaeth, Aileen, B.S.

Painting, Sculpture and Design

Pennington, Ruth, B.F.A.

Pharmacy

Braford, Caty, M.S.
Lehman, Arnold, M.S.

Reekie, Richard, B.S.
Richards, Leon, B.S.
Rising, Louis W., M.S.

Chemistry

Church, Anna E., M.S.
Damerell, V. Richard, M.S.
Danielson, Irvin, B.S.
Evans, Lacey H., B.S.
Ford, T. Foster, B.S.
Hitchings, George H., B.S.
Huffman, Eugene H., B.A.
Kaufman, Gretchen, B.A.
Marks, Graham W., M.A.
Mitchell, Raymond L., B.A.
Porter, Charles A., B.S.
Salstrom, Edward John, B.S.
Van Vleet, C. S., B.S.
Walker, Margery K., B.S.
Willson, Edward A., B.S.

English

Allen, Ralph K., B.A.
Childs, Herbert E., B.A.
Cornu, Elizabeth Weikel, B.A.
Cutts, Cecelia, M.A.
Ferrier, Gladys, B.A.
Jaeger, Julius P., M.A.
Jardine, Nan, B.A.
Kirkham, Bernice, B.A.
Kuhn, Bertha M., M.A.
McClure, Willard, B.A.
Norie, Mary Elizabeth, B.A.
Pellegrini, Angelo, B.A.
Richardson, Elizabeth, M.A.
Robb, Marian S., B.A.

- Robson, Wesley, B.A.
 Stafford, John B., A.B.
 Williams, Weldon, B.A.
- Physics*
 Bleakney, William M., B.A.
 Chapin, Daryl M., B.A.
 Geer, C. Willard, B.S.
 Larrick, Lewis, B.A.
 Reinhart, Raymond, B.A.
 Sanderman, L. A., B.S.
- Physical Education for Men*
 Davis, Elwood, M.A.
- Political Science*
 Brown, Mary C., B.A.
 Dilley, Marjorie, B.A.
 Warner, Kenneth, M.A.
- Psychology*
 Barker, Gertrude, A.B.
 Fricke, Gladys, B.A.
 Morrill, Helen, B.A.
- Romantic Languages*
 Fowler, Franklin, B.A.
 Giuntomi, Julius, B.A.
 Jones, Edna M., B.A.
 Newberry, Amelia E., B.A.
 Van Golder, Florence, B.A.
 Vargas, Anibal, B.A.
 Williams, Ruth, B.A.
 Wilson, Clotilde, M.A.
- Sociology*
 Guthrie, Elton, B.A.
 Rousseau, Imogene, B.A.
- Zoology*
 Folda, Florence, B.A.
 Goodsell, Julia, B.S.
 Schmoee, Floyd W., B.S.F.
 Werby, Helena, M.S.

GRADUATE SCHOLARS FOR 1927-28

- Bacteriology*
 Adams, Helen Elmira, B.A.
 Church, Ruth, B.S. in Ed.
 Gerdeman, Alice E., B.A.
- Business Administration*
 Ballaine, Wesley C., B.A.
 Bye, John, B.A.
- Education*
 Belknap, Mae S., B.A.
 Littlefield, Lena E., M.A.
 Mahone, Lena, A.B.
 Wolffe, Dall L., B.S.
- History*
 Gowen, F. Joyce, B.A.
 Ryan, Florence, B.A.
 Tift, Lillian B., B.A.
- Journalism*
 Frudensfeld, Mildred, B.A.
- Oriental Studies*
 Thole, Marjorie, B.A.
- English*
 Adams, Jane, A.B.
 Christianson, Victor, M.A.
 Norie, James L., B.A.
 Ottenheimer, Albert, B.A.
 Person, Henry A., B.A.
 U'Renn, Dorothy, B.A.
 Zillman, Lawrence, B.A.
- Philosophy*
 Savery, Barnett, A.B.
- Political Science*
 Newman, Wilbur R., B.S.
- Psychology*
 Stevenson, Harold, B.A.
 Wolffe, Dall, B.S.
- Zoology*
 Meaker, Marian E., M.S.

APPOINTMENTS AND PROMOTIONS FOR 1928

APPOINTMENTS

- McKenzie, Vernon.....*Dean of the School of Journalism*
 Uhl, Willis Lemon.....*Dean of the School of Education*
 Tibbetts, Charles S.....*Visiting Professor of Business Administration*
 Chessex, Jean C. W.....*Acting Assistant Professor of French*
 Groth, John H.....*Assistant Professor of English*
 Rahskopf, Horace.....*Assistant Professor of English*
 Rivers, Elizabeth.....*Assistant Professor of Home Economics*
 Applegate, L. M.....*Instructor in Electrical Engineering*
 Calhoun, Charles E.....*Instructor in Business Administration*
 Graves, L. Wallis.....*Instructor in Business Administration*
 Pearce, Richard J.....*Instructor in Architecture*
 Purdy, Henry L.....*Instructor in Business Administration*
 Schultz, Leonard P.....*Instructor in Ichthyology*

Gunn, Elizabeth.....	Instructor in Hygiene
Terrell, Margaret E.....	Instructor in Home Economics
Moritz, Harold K.....	Instructor in General Engineering
Rowlands, T. McKee.....	Instructor in General Engineering
Bauer, Hubert A.....	Associate in Geology
Foisie, Frank P.....	Lecturer in Business Administration
Garcia, Eduardo C.....	Associate in Romanic Languages
Hanson, Bert B.....	Associate in Dramatic Art
Lang, J. W.....	Associate in Engineering
Seeman, Albert L.....	Associate in Geology
Shephard, Esther.....	Associate in English
Sanderman, L. A.	Associate in Physics

PROMOTIONS

Guthrie, Edwin R.....	Professor of Psychology
Langenhan, Henry A.....	Professor of Pharmacy
Leib, Karl E.....	Professor of Business Administration
Lynn, Eldin V.....	Professor of Pharmacy
Orr, Frederick W.....	Professor of English
Rigg, George B.....	Professor of Botany
Rosen, Moritz.....	Professor of Music
Skinner, M. M.....	Professor of Business Administration
Venino, A. F.....	Professor of Music
Wilson, Hewitt.....	Professor of Ceramics
Wood, Carl Paige.....	Professor of Music
Densmore, Harvey.....	Associate Professor of Greek
DeVries, Louis P.....	Associate Professor of French
Goodspeed, George E.....	Associate Professor of Geology
Gregory, H. E.....	Associate Professor of Business Administration
Hotson, John N.....	Associate Professor of Botany
Price, Maurice T.....	Associate Professor of Sociology
Smith, E. Victor.....	Associate Professor of Zoology
Wilcox, Elgin Roscoe.....	Associate Professor of General Engineering
Williams, Curtis T.....	Associate Professor of Education
DeVries, Mary Aid.....	Assistant Professor of Physical Education
Foote, Hope Lucille.....	Assistant Professor of Design
Garcia-Prada, Carlos.....	Assistant Professor of Romanic Languages
Hawthorn, George E.....	Assistant Professor of General Engineering
McGownd, Matilda Jane.....	Assistant Professor of Physical Education
Mullemeister, Hermance.....	Assistant Professor of Mathematics
Van Horn, Robert B.....	Assistant Professor of General Engineering
Winther, S. K.....	Assistant Professor of English
Bird, Winfred.....	Instructor in English
Gundlach, Ralph.....	Instructor in Sociology
Simpson, Lurline.....	Instructor in Romanic Languages
Snidow, Harriett.....	Instructor in Pharmacy
Weir, John.....	Instructor in General Engineering
Wilson, Francis Graham.....	Instructor in Political Science
Adamson, Thelma.....	Associate in Anthropology
Blanchard, Fred.....	Associate in Dramatic Art
Clark, E. T.....	Lecturer in Forestry
Cornu, Donald.....	Associate in English
Gerdeman, Alice E.....	Associate in Bacteriology
Goodsell, Julia.....	Associate in Geology
Grant, Ruth.....	Associate in Business Administration
Mark, Sara N.....	Associate in English
Nix, Martha.....	Associate in English
Pennington, Ruth.....	Associate in Design

¹First Appointment, Assistant Professor, 1927.

²First Appointment, Associate, 1927.

³Temporary Appointment.

ALPHABETICAL LIST OF THE UNIVERSITY FACULTY 1928-29

- Spencer, Matthew Lyle.....*President of the University*
A.B., Kentucky Wesleyan, 1903; A.M., 1904, Northwestern, 1905; Ph.D., Chicago, 1910; LL.D., Northwestern, 1928.
-
- Adams, Albert Porter.....*Instructor in Music*
- Adamson, Thelma.....*Associate in Anthropology*
B.A., Marietta College, 1923.
- Alexander, James Lindsey.....*Assistant Professor of Forestry*
B.Sc.F., Toronto, 1921.
- Alden, Charles.....*Lecturer in Architecture*
B.S., Massachusetts Institute of Technology, 1890.
- Alfonso, Marie.....*Associate in Library Economy*
A.B., Nebraska, 1913; B.L.S., Washington, 1921.
- Allen, Ruth Frances.....*Instructor in Music*
B.M., Washington, 1924.
- Ankele, Felice Charlotte.....*Associate in German*
B.A., Washington, 1925; M.A., 1926.
- Anderson, Samuel Herbert.....*Associate Professor of Physics*
A.B., Park College, 1902; A.M., 1903; Ph.D., Illinois, 1912.
- Applegate, L. M.....*Instructor in Electrical Engineering*
B.S. (E.E.), Washington, 1921.
- Arbuthnot, James George.....*Associate Professor and Director of Physical Education for Men*
B.S., Kansas State College, 1904.
- Ashley, Paul Pritchard.....*Assistant Professor of Business Administration*
LL.B., Washington, 1925.
- Atkinson, Charles Raymond.....*Associate Professor of Business Administration*
A.B., George Washington, 1908; A.M., Columbia, 1910; Ph.D., 1911.
- Ayer, Leslie James.....*Professor of Law*
B.S., Upper Iowa, 1899; J.D., Chicago, 1906.
- Bagshaw, Enoch.....*Associate in Physical Education*
B.S. (Met.E.), Washington, 1908.
- Ballantine, Genevieve Knight.....*Associate in Latin*
A.B., Olivet College, 1897.
- Ballantine, John Perry.....*Assistant Professor of Mathematics*
A.B., Harvard, 1918; Ph.D., Chicago, 1923.
- Bauer, Herbert A.....*Associate in Geology*
Graduate, Greifswald, Germany, 1921.
- Beardsley, Arthur, Sydney.....*Lecturer on Law*
LL.B., Washington, 1916; B.S., 1924; M.A., 1925; Ph.D., 1928.
- Benham, Allen Rogers.....*Professor of English*
A.B., Minnesota, 1900; A.M., 1901; Ph.D., Yale, 1905.
- Benson, Edna.....*Assistant Professor of Design*
B.A., Iowa, 1909; Diploma, Chicago Academy of Fine Arts, 1915; M.A., Columbia, 1923.
- Benson, Henry Kreitzer.....*Professor of Chemical Engineering*
A.B., Franklin and Marshall, 1899; A.M., 1902; D.Sc., 1926; Ph.D., Columbia, 1907.

- Bergstrom, Theodore.....*Instructor in Engineering*
B.S. (E.E.), Washington, 1924.
- Beuschlein, Warren Lord.....*Assistant Professor of Chemical Engineering*
B.S. (Ch.E.), California Institute of Technology, 1920; M.S. (Ch.E.), Washington, 1925.
- Bird, Winfred Wylam.....*Instructor in English*
B.A., Lawrence College, 1926; M.A., Washington, 1928.
- Bishop, Omen.....*Assistant Professor of Education*
M.A., Iowa, 1922; Ph.D., 1924.
- Bissett, Clark Prescott.....*Professor of Law*
A.B., Hobart College, 1896; LL.D., Jesuit College, 1898; LL.D., Minnesota, 1909; Lit.D., Lincoln Memorial University, 1926; LL.D., Knox, 1926.
- Blake, Ralph Mason.....*Professor of Philosophy*
A.B., Williams College, 1911; A.M., Harvard, 1912; Ph.D., 1915.
- Blanchard, Fred.....*Associate in Dramatic Art*
B.A., Washington, 1926.
- Bliss, Addie Jeanette.....*Assistant Professor of Home Economics*
B.A., Washington, 1906; A.M., Columbia, 1917.
- Bogardus, Alice Coleman.....*Associate in Music*
B.L., Mills, 1913.
- Bolton, Frederick Elmer.....*Professor of Education; Dean Emeritus*
B.S., Wisconsin, 1893; M.S., 1896; Ph.D., Clark, 1898.
- Bostwick, Irene Neilson.....*Instructor in Music*
B.M., Washington, 1922.
- Brakel, Henry Louis.....*Associate Professor of Engineering Physics*
A.B., Olivet, 1902; M.A., Washington, 1905; Ph.D., Cornell, 1912.
- Brandstrom, Axel John Felix.....*Assistant Professor of Forestry*
B.S.F., Washington, 1919.
- Brodnax, Nancy Kate.....*Associate in Home Economics*
B.A., Oklahoma, 1921; M.A., Washington, 1928.
- Brown, Lois Eula.....*Associate in English*
B.A., Washington, 1920; M.A., 1924.
- Brown, Sara Harriett.....*Associate in Philosophy*
B.A., Washington, 1923; M.A., 1925.
- Brownell, Mary.....*Assistant Professor of Physical Education*
B.A., Wisconsin, 1924; M.A., 1926.
- Buchanan, Iva.....*Associate in History*
B.A., Washington, 1907; M.A., 1920.
- Buck, Helen Marian.....*Instructor in Design*
California (Southern Branch); California.
- Burd, Henry Alfred.....*Professor of Business Administration; Director of Summer School*
B.S., Illinois Wesleyan, 1910; A.M., Illinois, 1911; Ph.D., 1915.
- Burdon, Minnie Bell.....*Lecturer on Hygiene for Women*
M.D., Oregon, 1908.
- Calhoun, Charles E.....*Instructor in Business Administration*
B.A., Washington, 1925; M.A., 1928.
- Cappon, Alexander C.....*Associate in English*
P.L.B., Chicago, 1925; M.A., 1926.
- Carpenter, Allen Fuller.....*Professor of Mathematics*
A.B., Hastings, 1901; A.M., Nebraska, 1909; Ph.D., Chicago, 1915.
- Cederstrom, Moyle F.....*Associate in English*
B.A., Minnesota, 1923; M.A., 1927.

- Chessex, Jean Charles William.....*Acting Assistant Professor of Romanic Languages*
B.A., Lausanne, 1923; M.A., 1925.
- Chittenden, Hiram Martin.....*Instructor in Engineering*
B.S. (C.E.), Washington, 1920.
- Christian, Byron Hunter.....*Instructor in Journalism*
B.A., Washington, 1921.
- Clark, Elias Treat.....*Lecturer on Forestry*
Ph.B., Yale, 1907; M.F., 1908.
- Cobb, John Nathan.....*Professor of Fisheries; Dean of the College of Fisheries*
- Cole, Kenneth Carey.....*Assistant Professor of Political Science*
B.Lit., St. John's College, Oxford, 1924.
- Collier, Ira Leonard.....*Assistant Professor of Civil Engineering*
B.S. (C.E.), Washington, 1918; C.E., 1917.
- Conway, John Ashby.....*Associate in Dramatic Art*
B.A., Carnegie Institute of Technology, 1927.
- Coon, Shirley Jay.....*Professor of Business Administration*
B.A., Beloit College, 1909; M.A., Ohio State, 1915; Ph.D., Chicago, 1926.
- Corbally, John E.....*Associate in Education*
B.A., Whitworth, 1918; M.A., Washington, 1925.
- Corey, Clarence Raymond....*Assistant Professor of Mining and Metallurgy*
E.M., Montana State School of Mines, 1905; A.M., Columbia, 1915.
- Cornu, Donald.....*Associate in English*
L.L.B., Washington, 1922; M.A., 1926; Ph.D., 1928.
- Cory, Herbert Ellsworth.....*Professor of Liberal Arts*
A.B., Brown, 1906; Ph.D., Harvard, 1910.
- Cox, Edward Godfrey.....*Professor of English*
A.B., Wabash, 1899; A.M., Cornell, 1901; Ph.D., 1906.
- Cox, William Edward.....*Professor of Business Administration; Dean of the College of Business Administration*
A.B., Texas, 1909; A.M., 1910.
- Cramlet, Clyde Myron.....*Instructor in Mathematics*
A.B., Walla Walla College, 1915; M.S., Washington, 1920; Ph.D., 1926.
- Crawford, Donald Russell.....*Assistant Professor of Fisheries*
B.S., Washington, 1922; M.S., 1926.
- Crawford, Margaret.....*Associate in Dramatic Art*
B.S., Columbia, 1921; A.M., 1922.
- Creer, Leland Hargrave.....*Assistant Professor of History*
A.B., Utah, 1916; A.M., 1920; Ph.D., California, 1926.
- Dahlin, Ebba.....*Instructor in History*
B.A., Washington, 1919; M.A., 1922; Ph.D., Stanford, 1927.
- Dakan, Carl Spencer.....*Professor of Business Administration*
B.S., Missouri, 1909.
- Daniels, Joseph.....*Professor of Mining Engineering and Metallurgy*
S.B., Massachusetts Institute of Technology, 1905; M.S., Lehigh, 1908.
- Davis, Erma Emmaline Nelson.....*Associate in History*
B.A., University of Denver, 1918; M.A., Utah, 1924.
- Davis, Pearce Crane.....*Lecturer in Accounting*
C.P.A., 1914

- Dehn, William Maurice.....*Professor of Organic Chemistry*
A.B., Hope, 1898; A.M., 1899; Ph.D., Illinois, 1908.
- Denny, Grace Goldena.....*Associate Professor of Home Economics*
A.B., Nebraska, 1907; A.M., Columbia, 1919.
- Densmore, Harvey Bruce.....*Associate Professor of Greek*
B.A., Oxford, 1907.
- deRohan, Frederick J., Major Infantry.....*Assistant Professor of Military Science and Tactics*
- De Vries, Louis Peter.....*Associate Professor of Romanic Languages*
A.M., Wisconsin, 1911; Ph.D., 1913.
- De Vries, Mary Aid.....*Assistant Professor of Physical Education*
A.B., Wisconsin, 1920.
- Dobie, Edith.....*Instructor in History*
A.B., Syracuse, 1914; M.A., Chicago, 1922; Ph.D., Stanford, 1925.
- Dodd, Joseph Paul.....*Instructor in Civil Engineering*
B.S. (M.E.), Washington, 1923.
- Draper, Edgar Marion.....*Assistant Professor of Education*
B.A., Washington, 1916; M.A., 1925; Ph.D., 1927.
- Draper, Oscar Eldridge.....*Lecturer on Business Administration*
M.Acct., Vories Business College.
- Dresslar, Martha Estella.....*Assistant Professor of Home Economics*
B.A., Southern California, 1913; B.S., Washington, 1917; M.S., Columbia, 1918.
- Dvorak, August.....*Assistant Professor of Education*
A.B., Minnesota, 1920; Ph.D., 1923.
- Eastman, Austin Vitruvius.....*Instructor in Electrical Engineering*
B.S. (E.E.), Washington, 1922.
- Eastman, Frederick Scoville.....*Instructor in General Engineering*
B.S. (E.E.), Washington, 1925.
- Eastwood, Everett Owen.....*Professor of Mechanical Engineering*
C.E., Virginia, 1898; A.B., 1897; A.M., 1899; S.B., Massachusetts Institute of Technology, 1902.
- Eby, Edwin Harold.....*Instructor in English*
Ph.B., Chicago, 1923; Ph.D., Washington, 1927.
- Eckelman, Ernest Otto.....*Associate Professor of German*
A.B., Northwestern (Watertown, Wis.), 1897; B.L., Wisconsin, 1898;
Ph.D., Heidelberg, 1906.
- Edmonds, Robert Harold Gray.....*Assistant Professor of Mechanical Engineering*
B.S., Whitman, 1915; B.S. (M.E.), Washington, 1922; M.S. (M.E.), 1926.
- Edmundson, Clarence.....*Associate in Physical Education*
B.S., Idaho, 1910.
- Eldred, Wilfred.....*Professor of Business Administration*
A.B. and A.M., Washington and Lee, 1909; A.M., Harvard, 1911; Ph.D., 1919.
- Esper, Erwin Allen.....*Associate Professor of Psychology*
B.A., Ohio State, 1917; M.A., 1920; Ph.D., 1923.
- Ethel, Garland Oral.....*Instructor in English*
B.A., Washington, 1923; M.A., 1927; Ph.D., 1928.
- Farquharson, Frederick Burt....*Assistant Professor of General Engineering*
B.S., Washington, 1923.

- Foisie, Frank P.....*Lecturer in Business Administration*
B.S., Harvard, 1912.
- Foote, Ernest A., Lieutenant U.S. Navy.....*Assistant Professor of Naval Science and Tactics*
Graduate, U.S. Naval Academy, 1918.
- Foote, Hope Lucile.....*Assistant Professor of Interior Design*
A.B., Iowa State Teachers' College, 1920; A.M., Columbia, 1923.
- Foster, Frank K.....*Associate in Education*
B.Ed., Washington, 1921; M.A., 1923.
- Foster, Henry Melville.....*Assistant Professor and Director of Physical Education for Men*
B.S., Oregon, 1924; M.A., Columbia, 1926.
- Frame, Hugh Campbell.....*Professor of Business Administration*
B.A., Dalhousie, 1917; M.A., Harvard, 1920; Ph.D., 1926.
- Frein, Pierre Joseph.....*Professor of Romanic Languages*
A.B., Williams, 1892; Ph.D., Johns Hopkins, 1899.
- Frye, Theodore Christian.....*Professor of Botany*
B.S., Illinois, 1894; Ph.D., Chicago, 1902.
- Garcia-Prada, Carlos.....*Assistant Professor of Spanish*
A.B., Colegio del Rosario, 1918; M.A., Michigan, 1924.
- Garcia, Eduardo C.....*Associate in Spanish*
B.A., California, 1914; M.A., 1916.
- Gavett, George Irving.....*Associate Professor of Mathematics*
B.S. (C.E.), Michigan, 1898.
- George, William Henry.....*Professor of Political Science*
A.B., Harvard, 1902; A.M., Princeton, 1906; Ph.D., Harvard, 1921.
- Gerdeman, Alice E.....*Associate in Bacteriology*
B.A., Central Wesleyan College, 1922.
- Gillette, Alletta.....*Extension Instructor in English*
A.B., Smith, 1907; M.A., Washington, 1911.
- Glen, Irving Mackey..*Professor of Music; Dean of the College of Fine Arts*
A.B., Oregon, 1894; A.M., 1897.
- Glover, Sheldon Latta.....*Associate in Geology*
B.S., Washington, 1919; M.S., 1922.
- Goggio, Charles.....*Associate Professor of Romanic Languages*
A.B., Harvard, 1910; A.M., Wisconsin, 1914; Ph.D., 1919.
- Goodner, Ivan Wilbur.....*Professor of Law*
LL.B., Nebraska, 1897.
- Goodrich, Forest Jackson....*Assistant Professor of Pharmacy and Materia Medica*
Ph.C., Washington, 1913; B.S., 1914; M.S., 1917; Ph.D., 1926.
- Goodsell, Julia.....*Associate in Geology*
B.S., Washington, 1927.
- Goodspeed, George Edward, Jr.....*Associate Professor of Geology*
B.S. (Min.E.), Massachusetts Institute of Technology, 1910.
- Gould, James Edward.....*Professor of Maritime Commerce*
B.Ph., Washington, 1896; B.Pd., 1898; M.A., Harvard, 1907.
- Gowen, Herbert Henry.....*Professor of Oriental Studies*
St. Augustine's College (Canterbury); D.D., Whitman College, 1912.

- Gowen, Lancelot.....*Assistant Professor of Architecture*
A.B., California, 1916; A.M. (Arch.), 1921.
- Grant, Ruth.....*Instructor in Business Administration*
B.B.A., Washington, 1925.
- Graves, Dorsett.....*Associate in Physical Education*
Missouri.
- Graves, L. Wallis.....*Instructor in Business Administration*
B.B.A., Washington, 1923; M.A., California, 1928.
- Greene, Royal Kemp, Major, C.A.C.....*Assistant Professor of Military Science and Tactics*
Graduate, U.S. Military Academy, 1907.
- Gregory, Homer Ewart....*Associate Professor of Business Administration*
A.B., Washington State College, 1914; A.M., Chicago, 1917.
- Griffin, Eldon.....*Assistant Professor of Oriental Studies*
A.B., Harvard, 1916.
- Griffith, Dudley David.....*Professor of English*
A.B., Simpson College, 1903; Ph.D., Chicago, 1916.
- Gromer, James G. B., Lieutenant Commander, U.S. Navy.....*Assistant Professor of Naval Science and Tactics*
Graduate, U.S. Naval Academy, 1911.
- Grondal, Bror Leonard.....*Associate Professor of Forestry*
A.B., Bethany (Kansas), 1910; M.S.F., Washington, 1913.
- Gross, Mary Emma.....*Associate Professor and Director of Physical Education for Women*
A.B., Goucher College, 1912; A.M., Columbia, 1915.
- Groth, John Henry.....*Assistant Professor of English*
B.A., Wartburg College, 1912; M.A., Washington, 1926; Ph.D., Columbia, 1928.
- Guberlet, John Earl.....*Associate Professor of Zoology*
A.B., Bethany, 1909; A.M., Illinois, 1911; Ph.D., 1914.
- Gundlach, Ralph.....*Instructor in Psychology*
B.A., Washington, 1924; M.A., Washington, 1925; Ph.D., Illinois, 1927.
- Gunn, Elizabeth.....*Assistant Physician and Instructor in Hygiene*
B.S., Washington, 1923; M.D., Oregon, 1926.
- Guthrie, Edwin Ray.....*Professor of Psychology*
A.B., Nebraska, 1907; A.M., 1910; Ph.D., Pennsylvania, 1912.
- Haggett, Winnifred Sunderlin.....*Dean of Women*
A.B., Olivet, 1897; A.M., Michigan, 1898.
- Hall, Amy Violet.....*Associate in English*
B.Ed., Washington, 1920; A.M., 1923.
- Hall, David Connolly...*University Health Officer and Professor of Hygiene*
Ph.B., Brown, 1901; Sc.M., Chicago, 1903; M.D., Rush Medical College, 1907.
- Hamack, Frank Hartmond.....*Associate in Business Administration*
LL.B., Georgetown, 1916.
- Hamilton, James Baker.....*Assistant Professor of Civil Engineering*
B.S. (C.E.), Washington, 1924; C.E., 1927.
- Hamilton, Rachel Elizabeth.....*Associate in French*
B.L., Whitman, 1910; A.M., Washington, 1924.
- Hansen, Bert B.....*Associate in Dramatic Art*
A.B., South Dakota, 1920.

- Harris, Charles William.....*Professor of Hydraulic Engineering*
B.S. (C.E.), Washington, 1903; C.E., Cornell, 1905.
- Harrison, Joseph Barlow.....*Associate Professor of English*
B.A., Washington, 1910; B.A., Oxford, 1913.
- Harvey, Edward Leon.....*Professor of European History*
B.A., Oxford, 1915; M.A., Oxford, 1921.
- Hatch, Melville H.....*Assistant Professor of Zoology*
B.A., Michigan, 1919; M.A., 1921; Ph.D., 1925.
- Hathway, Marion.....*Associate in Sociology*
B.A., Radcliffe, 1916; M.A., Chicago, 1927.
- Hauan, Merlin.....*Lecturer in Civil Engineering*
B.S. (E.E.), Washington, 1925.
- Hawthorn, George Edward....*Assistant Professor of General Engineering*
B.S. (C.E.), Washington, 1915; C.E., 1926.
- Hayner, Norman Sylvester.....*Assistant Professor of Sociology*
B.A., Washington, 1920; M.A., Chicago, 1921; Ph.D., 1923.
- Helmich, Leone.....*Associate in Physical Education for Women*
B.S., Washington, 1922.
- Helmlinge, Charles Louis.....*Assistant Professor of Romanic Languages*
B.Ph., Wallace College (Ohio), 1911; M.A., Washington, 1915.
- Henry, William Elmer.....*Librarian; Dean of the Library School*
A.B., Indiana, 1891; A.M., 1892.
- Herrman, Arthur Philip.....*Assistant Professor of Architecture*
A.B. (Arch.), Carnegie Institute of Technology, 1920.
- Higgs, Paul McClellan.....*Associate in Physics*
B.S., Washington, 1919.
- Hildebrand, Christian, First Lieutenant, Infantry.....*Assistant Professor of Military Science*
Graduate, U.S. Military Academy, 1919; Basic Course, Infantry School, 1920.
- Hill, Raymond L.....*Assistant Professor of Fine Arts*
Rhode Island School of Design, 1913; California School of Fine Arts, 1915.
- Hoard, George Lisle.....*Assistant Professor of Electrical Engineering*
B.S. (E.E.), Washington, 1917; M.S. (E.E.), 1926.
- Hoffstadt, Rachel Emilie.....*Assistant Professor of Bacteriology*
B.S., Hanover, 1908; M.S., Chicago, 1913; Ph.D., 1915; D.Sc., Johns Hopkins, 1921.
- Hotson, John William.....*Associate Professor of Botany*
A.B., McMaster, 1901; A.M., 1902; Ph.D., Harvard, 1913.
- Hughes, Glenn Arthur.....*Assistant Professor of English and Dramatic Art*
A.B., Stanford, 1916; M.A., Washington, 1920.
- Hulse, Granvyl G.....*Instructor in Political Science*
B.A., California, 1925; M.A., Harvard, 1926.
- Ingram, Wyatt H.....*Instructor in Mathematics*
B.S., Chicago, 1917; M.S., Massachusetts Institute of Technology, 1923.
- Isaacs, Walter.....*Associate Professor of Fine Arts*
B.S. (F.A.), James Millikin, 1909; Academie Colorossi and Academie Moderne, Paris.
- Jackson, Kirby.....*Associate in Chemistry*
B.S., Vanderbilt, 1918; M.S., 1919.
- Jacobs, Melville.....*Associate in Anthropology*
B.A., College of the City of New York, 1922; M.A., Columbia, 1923.

- Jarvis, Norman Donald.....*Instructor in Fisheries*
B.S., Washington, 1924; M.S., 1926.
- Jerbert, Arthur Rudolph.....*Instructor in Mathematics*
B.S., Washington, 1916; M.S., 1923; Ph.D., 1928.
- Jessup, John.....*Acting Associate Professor of Education*
A.B., Earlham College, 1920; M.A., Iowa, 1924.
- Johnson, Charles Willis.....*Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy*
Ph.C., Michigan, 1896; B.S., 1900; Ph.D., 1908.
- Jones, Pamela Pearl.....*Associate in English*
A.B., Iowa, 1906; A.M., 1908.
- Jones, Robert William.....*Associate Professor of Journalism*
A.B., Missouri, 1906; LL.B., 1913; A.M., South Dakota, 1918.
- Kennedy, Fred Washington.....*Director of the Journalism Laboratories*
- Kerrigan, Sylvia Finlay.....*Associate in English*
B.A., Washington, 1919; M.A., 1923.
- Kincaid, Trevor.....*Professor of Zoology*
B.S., Washington, 1899; M.A., 1901.
- Kirchner, George.....*Instructor in Music*
Leipzig.
- Kirkland, Burt Persons.....*Professor of Forestry*
A.B., Cornell, 1905.
- Kirsten, Friedrich Kurt.....*Professor of Electrical Engineering*
B.S., Washington, 1909; E.E., 1914.
- Landes, Henry.....*Professor of Geology and Mineralogy; Dean of the College of Science*
A.B., Indiana, 1892; A.B., Harvard, 1892; A.M., 1898.
- Lang, J. W.....*Associate in Engineering*
B.S. (Ch.E.), Washington, 1928.
- Langenhan, Henry August.....*Professor of Pharmacy*
Ph.G., Illinois, 1908; Ph.C., 1909; B.S., Wisconsin, 1913; M.S., 1915; Ph.D., 1918.
- Langford, Cooper Harold.....*Assistant Professor of Philosophy*
B.A., Clark, 1919; Ph.D., Harvard, 1924.
- Lantz, Harvey.....*Professor of Law*
Ph.B., DePauw, 1888; A.M., 1891; LL.B., Kent Law School, 1898.
- Lawrence, Charles Wilson.....*Assistant Professor of Music*
B.Mus., Oberlin, 1918.
- Lawson, Jane Sorrie.....*Associate in English*
A.M., St. Andrews (Scotland), 1906.
- Leahy, Kathleen M.....*Associate in Nursing Education*
B.A., Oregon, 1926.
- Leib, Karl Elias.....*Professor of Business Administration*
A.B., Stanford, 1916; J.D., 1923.
- Lindblom, Roy Eric.....*Instructor in Electrical Engineering*
B.S. (E.E.), Washington, 1922.
- Loew, Edgar Allen.....*Professor of Electrical Engineering*
B.S. (E.E.), Wisconsin, 1906; E.E., 1922.
- Lofgren, Frederick Valentine.....*Instructor in Pharmacy*
B.S., Washington, 1924; M.S., 1925.

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B.L.I., Emerson College of Oratory, 1924.
- Lovejoy, Cecyl B.....*Associate in Dramatic Art*
B.A., Washington, 1924; M.A., 1928.
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A.B., Olivet, 1918; A.M., Indiana, 1915; Ph.D., Michigan, 1921.
- Luce, Dean, First Lieutenant, C.A.C.....*Assistant Professor of Military Science and Tactics*
Graduate, U.S. Military Academy, 1918.
- Lynch, Clara Belle.....*Associate in Music*
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B.A., Washington, 1909; A.M., Wisconsin, 1910; Ph.D., 1918.
- McConahey, James.....*Lecturer on Business Administration*
B.S., Washington and Jefferson, 1896; M.S., 1899; LL.B., Northwestern, 1899;
C.P.A., 1916.
- McConihe, Aimee.....*Associate in Dramatic Art*
B.A., Washington, 1919.
- McCurdy, William Harold.....*Associate Professor of Physics*
B.A., Dalhousie, 1921; M.A., 1922; Ph.D., Princeton, 1925.
- McGownd, Matilda Jane.....*Assistant Professor of Physical Education*
B.S., Columbia, 1915; A.M., 1923.
- McIntyre, Harry John.....*Assistant Professor of Mechanical Engineering*
B.S. (M.E.), Washington, 1915; M.B.A., 1923.
- McKay, George F.....*Assistant Professor of Music*
B.Mus., Rochester, 1923.
- McKenzie, R. D.....*Professor of Sociology*
B.A., Manitoba, 1912; Ph.D., Chicago, 1920.
- McKenzie, Vernon.....*Professor of Journalism; Dean of the School of Journalism*
B.A., Toronto, 1909; M.A., Harvard, 1914.
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Ph.B., Washington, 1898; A.M., Wisconsin, 1907.
- McMahon, Theresa Schmid.....*Associate Professor of Economics*
B.A., Washington, 1899; M.A., 1901; Ph.D., Wisconsin, 1909.
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B.S., Oregon Agricultural College, 1918; M.S. (M.E.), Washington, 1926.
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Graduate, Conservatory of Music, Carleton College, 1911.
- Magnusson, Carl Edward.....*Professor of Electrical Engineering and Dean of the College of Engineering*
B.E.E., Minnesota, 1896; M.S., 1897; E.E., 1905; Ph.D., Wisconsin, 1900.
- Magnusson, Gustaf Alfred.....*Lecturer on Clinic Diagnosis*
A.B., New Mexico, 1903; M.D., Minnesota, 1908.
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M.A., Adelaide, 1921.
- Marick, Louis.....*Associate in Physics*
M.E., Montana School of Mines, 1925; M.S., Washington, 1927.
- Mark, Sara Norris.....*Associate in English*
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 B.L., California, 1914; A.M., 1915; Ph.D., Columbia, 1917.
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 B.S., Columbia, 1926.
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 LL.B., Washington University, 1888.
- May, Charles Culbertson.....*Associate Professor of Civil Engineering and Architecture*
 B.S. (C.E.), Washington, 1910.
- Meany, Edmond Stephen.....*Professor of History*
 B.S., Washington, 1885; M.S., 1899; M.L., Wisconsin, 1901; LL.D., College of Puget Sound, 1926.
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 B.S., Wisconsin, 1898; Ph.D., 1904.
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 B.S., Iowa State College, 1923; M.S., 1926.
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 Stanford; Washington.
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 B.S. (C.E.), Washington, 1920; C.E., 1926.
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 B.B.A., Washington 1922; M.B.A., 1927.
- Miller, John William.....*Assistant Professor of Engineering*
 B.S. (C.E.), Nebraska, 1925; C.E., 1928.
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 A.B., Greenville, 1920; A.M., California, 1921; Ph.D., 1923.
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 A.B., Michigan, 1890.
- More, Charles Church.....*Professor of Structural Engineering*
 C.E., Lafayette, 1898; M.C.E., Cornell, 1899; M.S., Lafayette, 1901.
- Moritz, Harold Kennedy.....*Instructor in General Engineering*
 B.S., Mass. Institute of Technology, 1921.
- Moritz, Robert Edouard.....*Professor of Mathematics*
 B.S., Hastings, 1892; Ph.M., Chicago, 1896; Ph.D., Nebraska, 1901; Ph.N.D., Strassburg, 1902.
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 Graduate, U.S. Military Academy, 1908; Graduate, Command and General Staff School, Fort Leavenworth, 1924.
- Mullemeister, Hermance.....*Assistant Professor of Mathematics*
 Phil.Cand., Royal University of Utrecht, Holland, 1910; Ph.D., 1913.
- Neikirk, Lewis Irving.....*Assistant Professor of Mathematics*
 B.S., Colorado, 1898; M.S., 1901; Ph.D., Pennsylvania, 1903.
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 B.S., Washington, 1919; M.S., 1924.
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B.L., Drury College, 1901; G.C.D., Boston School of Expression, 1905;
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Melbourne National Gallery, Victoria, Australia; Julien, Colorossi and Delocluse Academies, Europe.
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 Washington.
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 Graduate, Eastern Illinois State Normal School, 1905; A.B., Denver, 1911;
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 National Academy of Design; Columbia; B.A., Washington, 1927.
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 Graduate, U.S. Naval Academy, 1909.
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 A.B., Stanford, 1899.
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 C.F.A.
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 A.B. (Nav. Arch.), (Engr.), Massachusetts Institute of Technology, 1926.
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B.S., Linfield College, 1923.
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B.S. (M.E.), Washington, 1923.
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B.S., Vanderbilt, 1900; Ph.D., Freiburg, 1903.
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- Smith, Harry Edwin.....*Associate Professor of Business Administration; Acting Director of the Extension Service*
A.B., DePauw, 1906; Ph.D., Cornell, 1912.

- Smith, Stevenson.....*Professor of Psychology; Director of the Gatzert Foundation*
A.B., Pennsylvania, 1904; Ph.D., 1909.
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- Soule, Elizabeth.....*Associate in Nursing and Public Health*
Graduate, Malden, Massachusetts, Hospital School of Nursing, 1907;
B.A., Washington, 1926.
- Southwick, Charles Ulysses.....*Associate in French*
B.A., Washington, 1924; M.A., 1926.
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A.B., Olivet College, 1891; A.M., 1893.
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- Sutton, Wayne Campbell.....*Associate in Physical Education*
B.A., Washington, 1915.
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B.S., Montana State College, 1926; M.S., Washington, 1927.
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- Thompson, Thomas Gordon.....*Associate Professor of Chemistry*
A.B., Clark, 1914; M.S., Washington, 1915; Ph.D., 1918.
- Thomson, David.....*Professor of Latin; Dean of the College of Liberal Arts; Dean of Faculties*
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- Van de Walker, Frank Chester.....*Instructor in Business Administration*
A.B., Whitworth, 1917; M.B.A., Washington, 1923.
- Van Horn, Robert.....*Assistant Professor of Civil Engineering*
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Theoretical Work, Dr. Bridge, Chester, England; Richter, Leipzig; Piano, Godowsky, Berlin; Lhevinne, Berlin; Harold Bauer, Paris.
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New York Conservatory of Music; Pupil of Leschetizky.
- Venino, Luella.....*Associate in Music*
Leschetizky.
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- Vickner, Edwin John.....*Professor of Scandinavian Languages*
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- Warner, Frank Melville.....*Assistant Professor of Engineering*
B.S. (M.E.), Wisconsin, 1907.
- Weaver, Charles Edwin.....*Professor of Paleontology*
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A.B., Kansas State Normal, 1913; A.M., Clark, 1914; Ph.D., 1917.
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Cer.Engr., Ohio State University, 1913.
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Chemical Engineer, Technische Hoogeschool, Delft, Holland, 1917; Ph.D.,
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Williams, Laurin Lyman.....	<i>Captain, Infantry</i>
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Lang, Walter.....	<i>Master Sergeant, U.S.A., Retired</i>
Compton, William F.....	<i>Staff Sergeant, D.E.M.L.</i>
Bailey, Ray A.....	<i>Staff Sergeant, D.E.M.L.</i>
Beckett, Harry.....	<i>Sergeant, D.E.M.L.</i>
Collins, Floyd.....	<i>Sergeant, D.E.M.L.</i>
Freeman, Charles E.....	<i>Private First Class, D.E.M.L.</i>
Whitchurch, Roy B.....	<i>Private First Class, D.E.M.L.</i>

UNITED STATES NAVAL RESERVE OFFICERS' TRAINING CORPS

Olding, James Perdue.....	<i>Commander, U.S. Navy</i>
Rice, Paul Hildreth.....	<i>Commander, U.S. Navy</i>
Gromer, James G. B.....	<i>Lieutenant Commander, U.S. Navy</i>
Foote, Ernest A.....	<i>Lieutenant, U.S. Navy</i>
Littell, Roland B.....	<i>Chief Yeoman, NR-F3C</i>
Hamilton, Malcolm.....	<i>Chief Gunner's Mate, NR-F4C</i>
Wilson, Christian J.....	<i>Chief Boatswain's Mate, NR-F4C</i>

ASSISTANT ADMINISTRATIVE OFFICERS

Reinhard, Ethel Orvis, A.B.....	<i>Secretary to the President</i>
Fawcett, John H., A.B.....	<i>Director, Men's Personnel Office</i>
Taylor, William D. Jr., A.B.....	<i>Director, Men's Personnel Office</i>
Ward, May, A.M.....	<i>Assistant Dean of Women</i>
Bash, Mary Lola, A.B.....	<i>Assistant Dean of Women</i>
Westmoreland, Harriett.....	<i>Publications Editor</i>
Wentworth, Lois J., B.A.....	<i>Secretary to the Dean of the Graduate School</i>
Limbach, Roberta W.....	<i>Bureau of Appointments Secretary</i>
Terrell, Margaret E., M.A.....	<i>Director of Dormitories and Dining Halls</i>
Thorpe, Bernice DuRae, M.A.....	<i>Assistant, President's Office</i>

OFFICE OF THE COMPTROLLER

Condon, Herbert T., LL.B.....	<i>Comptroller</i>
Wilson, Aimee.....	<i>Secretary to the Comptroller</i>
Butterbaugh, Grant, M.B.A.....	<i>Auditor</i>
Stuart, Charles K., LL.B.....	<i>Cashier</i>
Hipkoe, Max.....	<i>Assistant Purchasing Agent</i>
Elwell, Frederick.....	<i>Superintendent of Buildings and Grounds</i>

OFFICE OF THE REGISTRAR

Stevens, Edwin Bicknell, A.M.....	<i>Registrar</i>
Ollis, Alice M.....	<i>Assistant to the Registrar</i>
Ewell, Frances M.....	<i>Assistant for Schedules and Secretary to the Registrar</i>

Willard, Frances, A.B.....	<i>Credentials Assistant</i>
Whicker, Meta, A.B.....	<i>Registration Assistant</i>
Brugger, Minnie Kraus, A.B.....	<i>Graduation Assistant</i>
Pepper, Leah H.....	<i>Recording Assistant</i>

THE MUSEUM

Hall, Frank Stevens.....	<i>Director of the Museum</i>
Rathbun, Samuel F.....	<i>Honorary Curator of Birds</i>
Flauhaut, Martha, A.B.....	<i>Assistant</i>

ENGINEERING EXPERIMENT STATION

Magnusson, Carl Edward, Ph.D., E.E.....	<i>Director</i>
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PUGET SOUND BIOLOGICAL STATION

Frye, Theodore Christian, Ph.D.....	<i>Director</i>
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STATE CHEMIST

Johnson, Charles Willis, Ph.C., Ph.D.....	<i>State Chemist</i>
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NORTHWEST EXPERIMENT STATION UNITED STATES

BUREAU OF MINES

Bird, Byron Matthew, B.S. (Met.E.).....	<i>Supervising Engineer</i>
Yancey, Harry Fagan, Ph.D.....	<i>Associate Chemist</i>
Johnson, Kenneth Alexander, B.S.....	<i>Junior Chemist</i>

UNIVERSITY HEALTH SERVICE

Hall, David Connolly, M.D.....	<i>University Health Officer</i>
Johnson, Hannah, M.D.....	<i>Medical Examiner for Women</i>
Gunn, Elizabeth, M.D.....	<i>Assistant Physician</i>
Reeder, Maude, R.N.....	<i>Resident Nurse</i>
Price, Pauline, R.N.....	<i>Public Health Nurse</i>

BOARDS AND COMMITTEES

1928-1929

ADMINISTRATIVE BOARDS

- Admissions*.....The Board of College Deans
Board of Deans—Thomson, Padelford, M. Roberts, Johnson, Winkenwerder, Landes, V. McKenzie, Glen, Cobb, Henry, Schweppe, Cox, Haggett, Burd, Stevens.
Schedule and Registration—Stevens, George Wilson, Cory, Tartar, Sidey, O. E. Draper, Wood, Carpenter, Brakel, DeVries, Corey, Dakan, Butterbaugh.
Student Discipline.....Lantz, Burd, Thompson, Guthrie, McIntyre
Summer Quarter.....Burd, Thomson, Padelford, Landes, Condon

COMMITTEES OF THE FACULTY

- Art*.....Thomas, Rhodes, Pratt
Athletics.....May, Ayer, Hall, Moritz, Dehn, Campbell, secretary
Curriculum—Benson, Cobb, Ayer, Corey, Patzer, Dakan, Randolph, Lynn, Herrman, George S. Smith, Stevens, Alfonso, R. W. Jones.
Graduation—Preston, Magnusson, Glen, Lantz, Kirkland, Williams, Griffith, Goodspeed, Hoard, Stevens.
Honors.....Gavett, Carpenter, T. S. McMahon, Wood, Dahlin, Gould
Library—Henry, Thomson, Padelford, Frye, Richardson, Patzer, Loew, C. W. Smith, Benham.
Military and Naval Affairs.....Osborn, Carpenter, McIntyre.
Publications—Leib, R. W. Jones, E. G. Cox, A. L. Miller, Glenn Hughes, Campbell.
Public Exercises...Daniels, R. D. McKenzie, Lovejoy, L. Gowen, Lawrence.
Relations with Secondary Schools and Colleges—Bolton, Frein, E. McMahon, Rigg, F. M. Warner, Jessup, Stevens.
Rhodes Scholarships.....Densmore, Harrison, Small, Quainton.
Rules.....Goodner, Skinner, Norris, Haggett, Taylor, Hayner, Stevens.
Student Affairs—W. E. Cox, C. W. Johnson, R. D. McKenzie, Haggett, Alexander, Winslow, Gross, Harrison, O. E. Draper, and eight representatives of students organizations.
Student Welfare and Loans—Wilcox, Fawcett, Haggett, Raitt, Hall, Densmore, Condon.

THE UNIVERSITY

HISTORY

The foundation for establishment of the University of Washington was laid in 1854, when Governor Isaac Ingalls Stevens, in his message to the first legislature, recommended that Congress be memorialized to appropriate land for a university. Two townships subsequently were granted and in January, 1861, the legislature finally located the Territorial University at Seattle.

On February 22 (Washington's Birthday), the Reverend Daniel Bagley, John Webster and Edmund Carr, composing the Board of University Commissioners, met and organized for work. Ten acres of land were donated by Hon. Arthur A. Denny, Charles C. Terry and Edward Lander from their adjoining farms, and on May 21, 1861, the cornerstone of the main building was laid. The building was completed in specified time and on November 4, 1861, classes were opened for students.

For thirty-four years the University occupied the original tract, but in the later eighties it became apparent that the campus eventually would be outgrown. By 1890 the growth both of the University and of Seattle's business district evinced the necessity of more ample grounds.

To meet this need, the legislature passed a bill on March 7, 1893, providing for the relocation, construction and maintenance of the University of Washington. A fractional section of land consisting of 355 acres between Lakes Washington and Union, the present site of the University, was purchased, and on the completion of Denny Hall and some minor buildings the University moved to its present location in September, 1895.

GOVERNMENT

Under the constitution and laws of the State of Washington, the government of the University is vested in a Board of Regents, consisting of seven members appointed by the Governor by and with the advice and consent of the Senate. Each regent is appointed for a term of six years.

ENDOWMENT AND SUPPORT

The University derives its support from the state. As yet the property belonging to the institution as an endowment yields comparatively little revenue. The income from this property in years to come will greatly help to support the institution.

The legislature of 1925 increased the millage rate for operation from 1.10 of a mill to 1.47, but based this rate on the then assessed valuation of \$1,158,026,676.00. This will yield annually \$1,702,300.00, which augmented by sundry property receipts and tuitions should yield approximately \$1,860,000 for 1928-1929 and annually thereafter until modified by law.

The property of the University includes:

The two townships of land granted by Congress in 1854. There remains of this old grant some 3,000 acres.

The old University site, consisting of the tract of 8.32 acres, donated in 1861 by Arthur Denny and his wife; and 1.67 acres donated by Charles C. Terry and wife and Edward Lander. This "ten-acre tract" lies in the business center of Seattle, and is rapidly enhancing in value.

One hundred thousand acres of land segregated by the state March 14, 1893.

The University campus consisting of 582 acres of land and waterways.

BEQUESTS

The Board of Regents of the University of Washington is authorized by law to receive such bequests or gratuities as may be given or granted to the University, and to invest or expend the same according to the terms of such bequests or gratuities. The Board of Regents has adopted rules to govern and protect the principal of such gifts and the income therefrom so that the same will be forever applied to the purposes designated by the donors of the gifts.

Those who desire to aid the work of the University of Washington by means of gifts *inter vivos* or by wills may do so, feeling assured that their wishes as outlined in the deed of gift or will are to be carried into effect as provided by law.

A simple statement in a will, such as the following, will be sufficient:

"I give, devise, and bequeath to the Board of Regents of the University of Washington the sum of.....dollars *In Trust*, *However*, for the following uses and purposes to be invested in securities to be approved by said Board and the interest therefrom to be expended in the maintenance of " (scholarship or fellowship fund named).

These bequests may be applied to the maintenance of scholarships and fellowships in any subject desired by the donor which meets the approval of the Board of Regents.

EQUIPMENT

GROUNDS

The campus contains 582 acres, 109 of which are open water. The land is all within the city limits of Seattle, lying between Lakes Union and Washington, with a shore line of more than one mile on Lake Washington and about a quarter of a mile on Lake Union.

PLAN OF THE CAMPUS

The plan for grouping the buildings of the University of Washington was prepared by direction of the Board of Regents, and with the supervision of the Faculty Committee. It was officially adopted May, 1915. The scheme is developed upon three major quadrangles, the Science Group about the axis of Rainier Vista, the Administration or Library Group with Meany Hall enclosing the west side, and the Liberal Arts Group about an axis at right angles with the walk in front of Denny Hall.

The plan provides for foot traffic only within the quadrangles. Automobile and service roads are provided to give access to the various groups, and scenic driveways encircle the campus. The ground to the west of Montlake Boulevard is reserved for athletics and the Stadium seating 30,000 persons has been built in this section of the campus by the Associated Students of the University of Washington.

Denny Field already has been changed to conform to the plan which provides for a Women's Group in the northeast section of the campus, including a women's dormitory and women's gymnasium.

The northwest section of the campus is reserved for men's dormitories.

Between these two proposed groups Memorial Way enters from the north as the continuation of University Boulevard.

Since the adoption of the group plan twelve buildings have been erected. Home Economics, Philosophy, Commerce and Education Halls on the Liberal Arts Quadrangle. Locations for three additional buildings are provided to complete this group. The new Library building, facing Meany Hall, defines the east line of the Library grouping. The Library has been occupied since January 1, 1927.

The men's gymnasium and pavilion and the women's gymnasium have been completed during the past year, and these buildings make ample provision for the physical education requirements of the University.

Physics Hall, the first unit of the Science group, is now building and will be ready for occupancy by the fall quarter. The four buildings adjacent to the Science group are Hydraulics, Forest Products, Mines Laboratories and Anderson Hall.

BUILDINGS

The buildings now in use on the University campus include the Aerodynamical Laboratory, Anderson Hall, Anatomical Laboratory, Bagley Hall and Annex, Commerce Hall, Denny Hall, Dormitories, (Lewis, Clark, Lander and Terry), Education Hall, Engineering Hall, Fisheries Buildings, Forest Products Laboratory (Dry Kiln, Wood Preserving Plant, Dry Shed), Foundry and Shop Building, Good Roads Building, Men's and Women's Gymnasiums, Health Service Building, Henry Art Gallery, Home Economics Hall, Hydraulics Laboratory, Library, Meany Hall, Mines Laboratory, Music Building, Observatory, Pharmacy Building, Philosophy Hall, Power House, Practice Cottage, R.O.T.C. Armory and Headquarters Buildings, Science Hall, United States Bureau of Mines, United States Mine Safety Station.

LIBRARY FACILITIES

The general library is housed in a beautiful new building containing comfortable and adequate provision for readers. The book collection has been built to meet the needs of students in all lines of undergraduate instruction. A stock of the more fundamental publications needed for advanced research is quite rapidly accumulating and special collections are being formed in a few limited fields. The number of bound volumes is 190,414.

The library of the Law School contains 53,563 volumes. Both libraries are freely accessible to all who care to use them.

In addition to the libraries on the campus, the Seattle Public Library, containing 412,882 volumes, is open to the University.

MUSEUM

The museum of the University of Washington is a museum of the arts and natural sciences. It was created the State Museum of the State of Washington by act of the legislature in 1899. In its functions as a state, a university and a public museum, it aims to make its collections representative of the natural history, mineral resources, ethnology, history, and chief industrial activities of this region and of those countries with which this state has a commercial relationship; to furnish materials for research and study, and to interest and educate the public by its exhibitions. Its collections, illustrative of the northwest coast, are among the most complete and valuable in the United States.

The museum, which was formerly housed in the old Forestry Building of the Alaska-Yukon-Pacific Exposition, has been transferred to the building previously occupied by the University Library. The collections are in process of re-installation and it is expected that the museum will be opened formally with the beginning of the autumn quarter, 1928. The collections on the main floor, however, will be available for public inspection during the summer months.

The collections, which have not been available to the public since May 26, 1923, now number approximately 125,000 specimens, with an estimated value of \$300,000. The main entrance hall on the first floor will be devoted to ethnological material of the State of Washington. Adjoining this hall are rooms devoted to collections of minerals and paleontological material, and marine fauna which is represented by a series of mounted fishes of the northwest coast, corals, sponges, starfish, shells, crustacea, etc. On the north side of the main hall one room contains a systematic series of local birds. The mammal hall contains habitat groups of mountain goats, bear, deer, elk, wolf, etc., adjoining which is a room containing small habitat groups of local birds, and a room with a display of insects.

Ethnology.—Beginning on the right in the main hall the collections illustrative of the life, arts and industries of the Indians will start with the Coast Salish tribes and continue in geographical sequence through the northwest coast and British Columbia, into the annex, where the Alaskan Indian and Eskimo collections will be displayed. There is also a choice collection of articles from the Copper Eskimos of Coronation Gulf, Northwest Territories, Canada, and from the Eskimo and Chukchee of the Siberian coast. The rest of the main hall will be devoted to the archaeology of Eastern Washington and the Columbia river region, with material illustrating the culture of the Interior Salish.

The gallery will contain articles from the aborigines of the Philippine Islands, Oceania and Australia, as well as a collection of ancient firearms, relics of the World War, and historical materials representing pioneer days in the Pacific Northwest and elsewhere.

Fine Arts.—The fine arts section will be placed in a series of rooms on the north side of the gallery. This will include porcelains, embroideries,

paintings and other art objects from China; a fine collection of Buddhas from northern China and Siam; and European textiles, porcelains, engravings and sculpture. One room will be devoted to Scandinavian handicrafts, and the collection of early American objects will include, among other things, a replica of a "Colonial" room.

Reserve or Study Series.—The museum has in its laboratories, for purposes of study and research, collections of botanical, conchological, ornithological, and ethnological specimens which are available to specialists or students competent to use them, and a museum library, consisting of over a thousand books and pamphlets on scientific subjects.

The herbarium of over 35,000 specimens contains a characteristic series of northwest flora, and the Frye collection of mosses of this region and Alaska, which is one of the most complete in the United States.

The collection of bird skins, eggs and nests consists of more than 5,000 specimens particularly representative of Washington.

The conchological collection of over 18,000 specimens contains a complete series of west coast forms and a large series from all parts of the world.

HORACE C. HENRY GALLERY OF THE FINE ARTS

The Horace C. Henry Gallery of the Fine Arts was completed in December, 1926. This building and its collection of modern paintings are the gift of the late Horace C. Henry of Seattle.

It includes the work of about two hundred representative painters, which will be invaluable to the College of Fine Arts in the teaching of painting and art appreciation. The United States is represented by such names as Beckwith, Blakelock, Chase, Cox, Guerin, Hassam, Homer, Inness, Martin, Melchers, Murphy, Ranger, Weir, Wyant. French painting is represented by Bonheur, Cazin, Corot, Daubigny, Delacroix, Diaz, Dupre, Jacque, Rousseau, Troyon, and others. Typical work of the schools of England, Spain, Holland, Germany and Sweden are also included.

LABORATORIES

The University of Washington has laboratories fully equipped for work in anatomy, astronomy, botany, chemistry, (including separate laboratories devoted to general chemistry, analytical chemistry, food inspection and analysis, physiological, industrial and pharmaceutical chemistry), geology, psychology, physics and zoology.

ENGINEERING LABORATORIES

Aeronautical Engineering.—The aerodynamics laboratory contains a standard 4 ft. x 4 ft. wind tunnel with complete equipment of automatic scales for experiments with air-foils, steam-lined body shapes and propellers. A shop in the laboratory facilitates the materialization of new ideas in the line of aerodynamical investigation and research. The wind tunnel has been a source of valuable information to local airplane industries.

Chemical Engineering.—A modern fire-proof building houses the chemical laboratories. Fully equipped separate laboratories are devoted to general chemistry, analytical chemistry, food inspection and analysis, organic chemistry, physiological chemistry, industrial chemistry, and pharmaceutical chemistry. All laboratories are equipped with hoods with forced drafts, water, gas, distilled water and air pressure. The chemical engineering laboratories are equipped with the fundamental types of apparatus used in manufacturing processes, such as filter press, hydraulic press, stills, grinding apparatus, heating furnaces and vacuo drying oven.

Civil Engineering.—The hydraulic laboratory is on the shore of Lake Union, where facilities are available for both medium and high head ex-

periments. For medium head, a free water surface, one acre in extent, is provided at an elevation of 100 feet above the laboratory floor. High head supply is furnished by centrifugal pumps having a combined capacity of 2,500 gallons per minute under heads of 0 to 400 feet.

The materials testing laboratory contains five universal testing machines with capacities from 30,000 to 300,000 pounds, two impact machines with various hammers ranging in weight from 550 to 1,500 pounds, with the necessary auxiliary apparatus for general work.

The equipment for testing hydraulic cement is complete for all the ordinary tests as specified by the American Society for Testing Materials.

The road laboratory is equipped for testing materials used in the construction of roads. The machines for the abrasion and toughness test are of the standard designs adopted by the American Society for Testing Materials; other machines are similar to those used by the United States Bureau of Public Roads.

The surveying equipment consists of all the necessary instruments for plane and topographic surveying.

Electrical Engineering.—The dynamo laboratory contains twenty-three alternating and forty-one direct current generators and motors. The machines are of modern design and have a combined capacity of 375 kilowatts in direct current machines and 325 kilowatts in alternating current machines. Most of the machines are of five- or ten-kilowatt capacity. Power from a storage battery of 60 cells is available at a separate switchboard in the dynamo laboratory. The university power house, containing three steam-driven units of 400,200, and 100 kilowatts, serves as a commercial laboratory for testing purposes.

Nine smaller rooms are devoted to the following: (a) Instrument making and repairing, (b) grinding room and shop (c) instrument and stock room, (d) telephone laboratory, (e) electrolysis and special thesis problems, (f) storage battery rooms, (g) three dark rooms for photometry work, (h) radio laboratory, (i) transmission line laboratory. The instrument room contains 364 standard indicating and recording ammeters, voltmeters and wattmeters, four three-element G.E. oscillographs, Dufour Cathoderay oscillograph, General Electric Surge recorder, a G.E. (Tirrell) A.C. regulator, a Fahy fluxometer, a klydonograph, a Tinsley A.C. potentiometer and a large collection of rheostats, tachometers, circuit breakers, instrument transformers and accessory apparatus.

Engineering Shops.—The shops are organized into three major divisions, viz., foundry, forge and machine. The foundry division is equipped with cupola, electric and crucible melting furnaces together with five types of molding machines and sand conditioning and casting cleaning equipment. Equipment is also available for pattern making and flask repair. The forge division contains, in addition to the regular forging equipment, three heat treating furnaces, Brinell hardness testing machine, oxy-acetylene welding and cutting equipment and an electric arc welder. The machine division contains a complete range of basic machine tools in which engine lathes predominate. This division maintains a complete tool crib including two sets of standard gages.

Mechanical Engineering.—The steam and experimental laboratory is fully equipped with steam apparatus including engines aggregating 1,000 H.P., simple and compound, high speed and Corliss types; steam turbines; jet and surface condensers; injector; centrifugal pumps; steam calorimeters; indicators; calibrating appliances; oil testing machine; gas engines of stationary and automobile types; a semi-Diesel 2-cylinder oil engine; Sprague electric dynamometer; Webster radiator testing outfit

for vacuum systems of heating; ventilation fan equipment for tests; Nash vacuum pump; equipment for automobile testing; belt and pulley testing machine; gas producer plant; refrigerating apparatus; compressed air machinery for two stage compression and Westinghouse full train equipment; fuel testing facilities, including Maher Bomb, Junkers and other calorimeters, with accessories for determining heating value and analysis of solid, liquid and gaseous fuels.

FISHERIES LABORATORIES

Ichthyology Laboratory.—The ichthyology laboratory contains an extensive collection of named fishes, particularly rich in species from Puget Sound and Alaska. By exchange and other means a representative series of the fishes found in American waters, with particular reference to forms of economic importance, is being built up. There is a collection to illustrate the species of shellfish, crustaceans, and other invertebrate animals constituting the bases for the corresponding industries.

Fish Diseases Laboratory.—The laboratory for fish diseases is equipped for study of life histories of various parasites of aquatic animals, including aquaria for live subjects, and dark rooms for studying effects of various colored lights on the animals.

Fisheries Laboratory.—The apparatus laboratory is equipped with working models of the larger forms, fully rigged types of the smaller forms, of fishery apparatus and detailed plans for their construction; equipment for manufacture, repair, care and preservation of nets; models of fishing vessels and boats, and samples of various fishery products prepared for market.

Canning Laboratory.—The canning laboratory is equipped with all machinery and appliances necessary for preparation and canning of all varieties of food products, in either glass or tin containers, including paring and slicing machinery, preparation table, exhaust box, closing machines and retorts. Here instruction is given in the usual commercial methods, while research is carried on in the development of new methods or the modification of the old to meet new conditions.

Curing and Drying Laboratory.—The curing laboratory contains the necessary equipment for making pickling solutions and brines, and for the drying, pickling, mild-curing and smoking of the various food products.

Fish Preservation Laboratories.—Ultimately a small refrigeration and cold storage plant will be installed for economic study of various methods of freezing and preserving food products in cold storage.

A smokehouse will be built for the purpose of carrying on experiments in smoking of various species and their utilization as food either in this condition or canned.

Testing Laboratory.—The testing room has a constant temperature of approximately 98° Fahrenheit, and in it samples of canned fishery products can be incubated, by means of which swells may be separated from the other cans and the sufficiency of the process used in the cannery determined. Various vacuum gauges and can testers are also available.

Research Laboratory.—The research laboratory contains the necessary chemical and bacteriological apparatus for investigation of problems of the food preserving industry. Laboratory desks are equipped with water, gas and electricity, and with balances, microscopes, apparatus for microphotography, pressure cookers and hand closing machines. The equipment includes sterilizers, incubator, vacuum drying ovens, hot-plates, and the necessary glassware.

Aquarium.—The aquarium is equipped with a number of tanks for live fishes, and with balanced and other aquaria for study of aquarium management.

FORESTRY AND LUMBERING LABORATORIES

Dendrology.—Individual lockers. A large herbarium and extensive collections of tree seeds, cones, bark specimens. An arboretum of 200 acres is under way.

Logging.—Logging camps in the vicinity of Seattle afford unequalled opportunities for field work. Collections of logging equipment, such as wire rope, axes, saws, hooks, blocks, special appliances for donkey engines, a working model of a steam yarding engine and models of high lead yarding. A Dolbeer and a single drum donkey engine are installed in the logging engineering laboratory. New material is constantly being added to these collections.

Milling.—Field trips to the sawmills in and near Seattle. Extensive collections of lumber showing patterns and grades, shingles, saws, planer knives, belting, chain and other sawmill equipment. Additions to these collections are now being made very rapidly.

Mensuration.—Equipment selected to show principal types of instruments in use. Those adapted for use in the Northwest are provided in quantities sufficient for all practice work in cruising, surveying, volume, growth and yield studies.

Silviculture.—Forests around Seattle offer wide opportunities for practical studies and demonstrations. The extensive forest tree nursery of the College of Forestry affords excellent opportunity for practice in modern nursery methods.

Timber Physics.—The tract contains approximately twenty-five million feet of timber. In addition to this there are areas of second growth forests of varying ages, some logged-off lands, and some burned over areas, making the tract well adapted for experimental and demonstration purposes. The laboratory is magnificently equipped with seven large testing machines for static and impact loading, circular and band saws, planer and other shop equipment for wood-working, and forms the first completely equipped unit of the Forest Products laboratory.

Wood Technology.—Individual lockers, gas, water, compound microscopes and all apparatus for preparing and sectioning wood for microscopic study are provided. Hand specimens and planks of domestic and foreign commercial timbers are provided in large quantities. These include extensive collections of South American, Australian, Philippine, Japanese, Indo-Malayan, Indian and other foreign hardwoods. Microscopic slides of nearly all American woods are kept on hand for check specimens.

Forest Products Laboratories.—The Forest Products Laboratory will in the future house all research work in forest products, and has been planned with special provisions for an extensive pulp and paper laboratory, a wood preservation laboratory and special laboratories for research in wood technology, pathology, wood chemistry and wood utilization. The laboratories for work in forest products now ready on the campus consist of six distinct units, as follows:

1. General Laboratory.—Equipped with special wood sectioning and plain sliding microtomes, binocular research microscopes with mechanical stage and microscopes of usual pattern, special illuminating devices for microscopic studies, micro-projection apparatus, water-baths, large and small gas and electric drying ovens, platform scales, analytical and pulp balances, all apparatus necessary for the technical examination of wood preservatives, standardized thermometers, en-

larging and reducing camera, standard horizontal photo-micrographic apparatus, dark room, and all incidental apparatus required in the detailed study of woody tissues.

2. Wood Preservation Laboratory.—A 14-inch by 12-foot retort, equipped with vapor drum and condenser, air compressor, vacuum pump and duplex pressure pump, is arranged for experimental work with any pressure process of treating wood. An open-tank plant of semi-commercial size is available for treatment of 9-foot material. It consists of one treating tank, two steel storage tanks for creosote and a wooden tank for the storage of metallic-salt solutions.

3. Wood Distillation Laboratory.—A retort of about one-half cord capacity is equipped with copper condensers, gas pump, gas tank and redistilling apparatus. This plant has been installed by the U.S. Forest Service for cooperative work with the University.

4. Dry Kiln Laboratory.—A dry kiln with a capacity of 10,000 feet B.M., equipped with a temperature controller, air compressor, hygroscope, recording hygrometer and a recording thermometer is conveniently located on the University spur of the Northern Pacific Railway. Arrangements have also been completed at one of the local commercial plants whereby the College of Forestry is given complete control of an experimental kiln at the plant.

5. Pulp and Paper Laboratory.—A 100-pound capacity digester and a beating engine of equivalent capacity are provided for research in the pulping of wood. These will be installed in the near future.

6. Plywood Laboratory.—A special machine for testing the strength of plywood, a glue mixer, hydraulic press and all apparatus for the detailed study of plywood are provided.

Commercial Plants.—Plants for manufacture of paper, wood pipe, coo-
erage, excelsior, wood conduit, veneers, furniture, boxes, and numerous
other secondary wood products are available for study. Four large creosot-
ing plants and several smaller preservative plants are also available.

The Charles Lathrop Pack Forest.—This is a tract of approximately 2000 acres located at LaGrande, Washington, adjoining the Rainier National Park Highway. The tract is used as an experiment station and as a public demonstration forest, the idea being to place forestry on display in show window fashion so the public may learn of the various methods of scientific forestry. It is admirably adapted for this purpose, having a frontage of about two miles on the highway and presenting a wide range of conditions. The money for the purchase of the forest and for putting it in shape was provided from the Charles Lathrop Pack Forestry Trust and by Doctor Pack himself.

The Lee Field Laboratory.—This is a tract of 80 acres containing a second growth stand of approximately 40 year old timber located at Maltby. The tract was donated to the College of Forestry by Ingie Marie Lee Hodgins, Edna Mae Lee Engle and George O. Lee, in memory of their parents, the late Mr. and Mrs. O. H. Lee. As the tract can be reached by auto in less than one-half hour from the University campus it will be especially valuable in connection with the regular laboratory instruction in the courses in silviculture and mensuration, and will also lend itself to some experimental work.

JOURNALISM LABORATORY

The journalism laboratory is equipped with everything necessary to teach students how to dress a newspaper. For students interested in advertising, special equipment is provided. A laboratory library of publications from supply houses, is available, containing information on type, paper, engravings and all equipment of the publishing and allied trades.

MINING, METALLURGICAL AND CERAMIC LABORATORIES

Mining.—The mining equipment may be divided into three groups, as follows: exhibits designed for purpose of study, apparatus for experiment and practice, and field equipment. Numerous exhibits are in service, notably a full-size Trenton aerial tramway terminal, several models of mines and mining construction, 1700 lantern slides and two portable lanterns, several thousand photographs, maps, blue prints, and drawings, sets of mine lamps, and extensive collections of ores and minerals from prominent mining districts.

The drilling equipment consists of single and two-stage Ingersoll-Rand air compressors with receivers, four of the newest types of rock-drills of different makes, two piston drills, column mountings and tripods, a Sullivan power-driven diamond drill complete, an Empire placer drill, sets of steel of several sections, forges, sharpening tools, a drill press, grinding wheels, tools, and accessories. Practice with the air drills and the diamond drill is had in a special shed built in the form of a mine drift, where deep holes can be drilled in all directions. For studies in mine ventilation, blowers and fans connecting with both metal and canvas pipes are in service; an anemometer, gages, air meter, safety lamps, and the most recent equipment for testing mine gases are provided. A Turbinair portable hoist is used for moving heavy apparatus.

The varied deposits of glacial drift on the University campus afford good practice ground. Blasting experiments with varied equipment are carried on in the hard morainal clay where results can be clearly seen. For practice in testing placer ground the Empire drill is used for boring test holes. Practice in methods of saving placer gold is given with standard sluices provided with several forms of rifles; placer gold of various sizes of grain is added to the gravel and its recovery is checked.

Pieces of hand equipment such as barometers, Brunton compass, dip needle, and other instruments are provided for student use on excursions to the nearby mines.

Ore Dressing.—The new laboratory was designed for testing not only ores but also non-metallic mineral substances, which are of great importance in Washington and the Northwest. The equipment is the newest and most complete that could be obtained. The crushing machinery, placed on the ground floor, consists of a 7x10-inch Blake breaker, a 4x6-inch Dodge, a Traylor gyratory, a pair of 10x10-inch, and a pair of 8x5-inch highspeed Sturtevant rolls, small crushers, and disc pulverizers. A hydraulic elevator lifts the crushed ore to the third floor where Locke and shaking feeders start it on its progress through the mill. The grinding mills consist of a 3x2-foot Marcy ballmill, a 2x4-foot and a 1x2-foot Marcy ball or rodmill, a Hardinge 20x5-inch mill, and smaller grinding mills. A Dorr bowl-classifier, a Dorr thickener, an Akins classifier, a Fahrenwald, a Bird, and several Richards classifiers are in service, also four jigs. The concentrating tables include a Wilfley sand-table and a Deister-Overstrom slimer of full size, a Plat-O of half size, and three smaller Wilfleys.

For testing magnetic ores and sands a Dings magnetic separator of Rowland-Wetherill type with both high and low intensity, a Davis tubetester, and an electro-magnet are provided. A 3-stamp battery fed by a challenge feeder delivers pulp to silvered copper plates and a Pierce amalgamator, thence to the concentrating tables. The flotation laboratory contains ten different cells of the most recent types. The screening equipment includes Hummer, Leahy, Newaygo, Ro-Tap, and other makes. A Dorrco pump and a Wilfley sand-pump can be used to elevate pulp. Among the items of special equipment are a Chance sand-flotation apparatus, an Oliver filter, and a form of Leitz microscope recently designed for studying mill products. The accessory equipment such as feeders, launders, samplers, settlers, dryers, scales, and trucks is very complete. Abundant water is available in the mill under both high and low heads.

Metallurgy.—The fourth floor of the new building is devoted to metallurgy proper. Separate laboratories are provided for general metallurgy, fire assaying, wet analysis, fuels, electrolytic work, research, and metallography, besides the balance rooms, dark room and stock room. The furnaces consist of two standard-size, double-muffle Denver oil burners, also gas and gasoline-fired and electric muffle furnaces, and a Hoskins 12.5 KW electric melting furnace. Pyrometers and three types of calorimeters are provided. Among the new pieces of special apparatus may be noted a Leitz complete photo-micrographic apparatus, a set of microscopes for metallography, an Orsat gas-analysis apparatus, Parr's total-carbon apparatus for coal, Brinnell and scleroscope machines for testing hardness.

Coal Washing.—The coal section of Mines Laboratory occupies an area of 54x57 feet and a height of 58 feet, including four stories and a sub-basement, connected by electric elevator. Coal for testing is received on the ground floor, in lots up to thirty tons, and is screened to remove large sizes. Smaller sizes pass into a concrete bin from which they are drawn to a bucket elevator for transportation to screens on the fourth floor, the screened products falling into bins on the third floor. From the bins, gravity flow delivers the screened sizes to the second floor, where classifiers, jigs, tables, and other forms of washing equipment are located. Products from these machines may flow to a sludge tank on the lower floor for settling and dewatering.

The building also contains fuel and analytical laboratories for the College of Mines and the U.S. Bureau of Mines, a room for conducting float-and-sink tests, a sampling room, a coal crushing and grinding room for the preparation of samples, a large sludge tank with automatic rakes, and two compressors, each two-stage, which supply air for the entire building.

Ceramics.—The ceramics equipment, offices and class rooms are housed in Mines Laboratory. The apparatus may be used for both manufacturing and testing ceramic products. The heavy brick machinery consists of a 4-foot Crossley dry and wet pan, a Mueller universal auger machine with cutting table, and a large American dry brick press. Pottery machinery includes a Patterson clay washing outfit with a double blunger, power screens, agitator, pump and filter press, a potter's pug mill, jolly wheel and plaster molds for both jollying and casting ware. The terra cotta equipment consists of pressing molds, a De Vilbiss spraying apparatus, engobe and glaze materials, and glaze-grinding ball mills. Firing apparatus includes an oxygen acetylene cone-fusion furnace; a 3-foot, high-temperature, load-test kiln for two bricks; two portable muffle pottery kilns; a 10 by 7-foot muffle down-draft terra cotta kiln; and a two-pot, 4 by 10-foot glass furnace. The kilns are fired with both gas and oil, and are equipped with thermo-couple, radiation, and optical pyrometers.

A humidity dryer complete with recording apparatus has recently been built; other additions are a Brown recording electric carbon-dioxide apparatus, a petrographic microscope, and a newly designed portable machine for testing the transverse strength of full-sized brick.

PHARMACY, MATERIA MEDICA AND CHEMISTRY LABORATORIES

Rooms devoted to pharmacy, materia medica and chemistry are located in Bagley Hall, a three-story fireproof building, and in the Pharmacy Annex. Special sections are provided for pharmacy students in general, organic and qualitative chemistry. Work in prescription practice receives special attention in the Pharmacy Annex. This building contains one large room arranged and equipped as a model prescription pharmacy; a second but smaller room equipped with optimum fixtures donated by Stewart and Holmes Drug Company, arranged and equipped as a sales room. The prescription room contains displays of pharmaceuticals from many of the leading pharmaceutical houses.

PHYSICS LABORATORIES

In addition to its general laboratories the department of physics is rapidly equipping the Bureau of Testing to meet the demands for accurate calibration and testing of scientific instruments. Standards of the bureau will be calibrated by the National Bureau of Standards at Washington, D.C. The bureau is prepared to calibrate direct and alternating current instruments, determine candle power of lamps, measure temperature, both high and low, and, to a limited extent, to standardize weights. Persons desiring to have work done should address the director.

UNITED STATES BUREAU OF MINES NORTHWEST EXPERIMENT STATION

The Department of Commerce maintains at the College of Mines its Northwest Experiment Station, which serves the Pacific Northwest and the coast regions of Alaska. The headquarters of the station, from which all operations in this territory are directed, are in Mines Laboratory. At present the principal investigations being conducted by the station are in the treatment and uses of coal and of other non-metallic substances. Members of the experiment station staff give occasional lectures to the students of the University on subjects dealing with their special lines of work.

Mine Safety Station.—The Mine Safety Station of the United States Bureau of Mines occupies a separate building located near Laurelhurst boulevard. Various types of oxygen rescue and resuscitation apparatus are kept on hand for practice and use in mine rescue work. The purposes of the station are to give emergency aid in cases of fires or explosions at mines or elsewhere, and also to train miners, firemen, and mining students in the use of oxygen helmets and other forms of rescue apparatus. From ten days to two weeks' time is required for the course of training. The applicant is taught the construction of the apparatus and is required to wear it for four hours each day, in two periods of two hours each. The practice is carried on in a room filled with gas which cannot be breathed without immediate danger, and the work performed is the same as that which would be required in actual mining operations or rescue work. The smokeroom represents a portion of a mine, and is equipped with mine car-track, overcast, timbers and brick. First-aid instruction is also given. Applicants who have completed the course of training receive a certificate from the United States Bureau of Mines.

A one-ton, 45-horsepower automobile truck, equipped with rescue apparatus ready for emergency calls, forms part of the equipment of the safety station.

ENGINEERING EXPERIMENT STATION

The Engineering Experiment Station was formally organized in December, 1917, to coordinate the engineering investigations in progress and to facilitate development of industrial research in the University.

The scope of the work is two-fold:

(a) To investigate and to publish information concerning engineering problems of a more or less general nature that would be helpful in municipal, rural and industrial affairs.

(b) To undertake extended research and to publish reports on engineering and scientific problems.

The purpose of the station is to aid in the industrial development of the state and nation by scientific research and by furnishing information for solution of engineering problems. Every effort will be made to cooperate effectively with professional engineers and the industrial organization in the state. Investigations of primary interest to the individual or corporation proposing them, as well as those of general interest, will be undertaken through the establishment of fellowships.

The control of the Engineering Experiment Station is vested in an administrative staff consisting of the president of the University, the dean of the College of Engineering, ex-officio director, and eight members of the faculty.

For administrative purposes, the work of the station is organized into eight divisions: (1) forest products, (2) mining and metallurgy, (3) aeronautical engineering, (4) chemical engineering and industrial chemistry, (5) civil engineering, (6) electrical engineering, (7) mechanical engineering, (8) physics standards and tests. Inquiries in regard to the work of the Experiment Station should be addressed to the director.

BAILEY AND BABETTE GATZERT FOUNDATION FOR CHILD WELFARE

On December 21, 1910, this foundation was established by a gift to the University of \$30,000 made by Sigmund Schwabacher and by the executor of the will of the late Abraham Schwabacher. The purpose of the foundation is (1) to conduct a laboratory for the mental and physical examination of children in order to determine their individual defects and aptitudes and, in accordance with the results of the examination, to suggest the best means of education and treatment; (2) to assist in establishing child welfare agencies and child study laboratories throughout the state, and (3) to carry on research in child psychology.

In December, 1915, the Bailey and Babette Gatzert Foundation for Child Welfare was created a separate department of the University.

GENERAL INFORMATION

THE UNIVERSITY ORGANIZATION

The University of Washington is one of five institutions of higher education which complete the state's system of public education, the others being the state college and the three normal schools. To the University is given exclusive authority to instruct in the following major lines: Aeronautical engineering, architecture, commerce, fisheries, forestry, journalism, law, library science, marine engineering and medicine.

The University has concurrent authority with the state college to instruct in the following major lines: Chemical engineering, civil engineering, electrical engineering, home economics, liberal arts, mechanical engineering, mining, pharmacy, professional training of high school teachers, school supervisors and school superintendents, and pure science.

Schools and Colleges and Their Fields.—The University is organized in the following schools and colleges:

- (A) *The Colleges of Liberal Arts and Science*, which provide a liberal education in arts and pure science, in a course normally requiring twelve quarters of residence, leading to the degrees of bachelor of arts and bachelor of science.
- (B) The professional and technical schools and colleges including:
 - (1) *The College of Business Administration*, covering the fundamental scientific training in industry and commerce in a course of twelve quarters leading to the degree of bachelor of business administration.
 - (2) *The School of Education* requires for admission six quarters of approved work in any college of the University, and offers an advanced course of six quarters preparing students for careers as high school teachers and school administrators. The degrees are bachelor of arts or bachelor of science, in education. Students in the College of Liberal Arts may major in the department of education and receive the degree of bachelor of arts.
 - (3) *The College of Engineering* has four departments: chemical, civil, electrical and mechanical engineering, (including aeronautical and marine), with curricula of twelve quarters leading to the degree of bachelor of science in the special field chosen by the student. The degree of master of science in each field is open to graduate students.
 - (4) *The College of Fine Arts* offers curricula of twelve quarters in architecture, vocal, instrumental, or public school music, or musical theory, painting and design, public school drawing, music and drawing, and dramatic art, leading to the degrees of bachelor of architecture, bachelor of music and bachelor of fine arts, or bachelor of arts with a major in one of the subjects named.
 - (5) *The College of Fisheries* lays a scientific foundation for work connected with the fisheries industry, one of the chief resources of the Pacific Coast. Bachelor of science in fisheries is the degree offered.
 - (6) *The College of Forestry* offers a curriculum of twelve quarters preparing for work in scientific forestry or in the lumber industry, leading to the degree of bachelor of science in for-

etry. The full professional course is fifteen quarters, with a liberal allowance of electives, giving opportunity for specialization in forest service and state work, logging engineering, forest products, or the lumber business. For this course the degree of master of science is given in the Graduate School.

- (7) *The School of Journalism* requires for entrance junior standing, that is, completion of two years of college work in liberal arts or science. The curriculum leads to the degree of bachelor of arts in journalism and prepares its students for practical newspaper work.
 - (8) *The School of Law* is the standard of approved law schools for admission to the bar of this state. For admission the student must have junior standing from the College of Liberal Arts or the College of Science, or its equivalent. The curriculum of the school covers nine quarters, leading to the degree of bachelor of laws. The degree of master of arts also is given. Students may carry on work in liberal arts or science and law concurrently, taking both bachelors' degrees in six years, or eighteen quarters.
 - (9) *The Library School* prepares students for librarianship in a technical curriculum extending through three quarters following either three or four years of academic study. On completion of the library school curriculum (45 credits), the degree of bachelor of science in library science is given.
 - (10) *The College of Mines* offers curricula of twelve quarters leading to the degree of bachelor of science in mining engineering, geology and mining, metallurgical engineering, or coal mining engineering. The fields open to graduates of this college are indicated by these divisions. The college also offers a curriculum in ceramics (clay, glass and cement products). The degree of master of science, with a major in one of these lines, may be obtained in the Graduate School.
 - (11) *The College of Pharmacy* offers three-year and four-year courses, the first giving preparation in technical and commercial pharmacy, and the second providing a well-rounded scientific training in this field. The three-year course leads to the degree of pharmaceutical chemist, and the four-year course to the degree of bachelor of science in pharmacy. A fifth year in the Graduate School offers an opportunity for graduate research work leading to the degree of master of science in pharmacy.
- (C) *The Graduate School* offers work leading to the degrees of master of arts, master of science, master of arts or master of science in technical subjects, certain technical or professional master's degrees (as, for example, master of business administration), and doctor of philosophy. A master's degree presupposes at least one year of resident work of high grade and special character, and a doctor's degree at least three years of such work. The University is placing increased emphasis upon its graduate work.

Definitions and Explanations.—In all statements relating to the University the word *course* refers to a single study pursued for a definite period, for which credit may be given toward University requirements for graduation in accordance with the number of hours taken. A *curriculum* is a group of courses arranged to be followed consecutively or concurrently. A *department* is the unit of instructional organization in a particular sci-

ence or art, as the department of geology. A *college* gives full curricula, beginning with the work of the freshman year and covering twelve quarters. The work of a *school* is preceded by two or more years of college work.

The four-year programs of the Colleges of Liberal Arts and Science are divided into the *lower division* (freshman and sophomore) and *upper division* (junior and senior.)

The term *unit* is applied to work taken in high school; a *credit* to work taken in college. To count as a unit, a subject must be taught five times a week, in periods of not less than forty-five minutes, for a school year of thirty-six weeks. A University credit is given for one hour of recitation a week throughout one quarter. Thus a quarter course in which there are five recitations a week is a five-credit course.

The term *major* is applied to the department or subject in which a student elects to specialize.

Special Curricula Within the Schools.—Certain semi-professional curricula are given for which no special school or college is provided. Such is the curriculum in nursing and public health in the College of Science.

The University does not give a medical course, but offers a pre-medical curriculum especially planned as a foundation for study in a medical school. This may be two years in length for schools not requiring college graduation, or four years for schools requiring that amount of preparation.

Under provisions of the National Defense Act, students in the University may attain commissions as reserve officers in the United States Army by meeting the requirements for advanced work in military science. This can be done without interference with the student's regular academic work.

The Four-Quarter System.—The University is operated on the four-quarter system, each quarter having approximately twelve working weeks. The Autumn Quarter begins in October, the Winter Quarter in January, the Spring Quarter in April, and the Summer Quarter in June. The University is closed only through September. Careful reading of the calendar will show the working of this plan in detail. Students may enter at the beginning of any quarter. The quarter system permits them to do a full quarter of university work in the summer in most curricula; to complete a university course in three years if health and resources permit; or otherwise to adjust their university residence to meet personal conditions. This flexible plan is of especial advantage in the University of Washington because the absence of extremes in climatic conditions is favorable to mental work at all times of the year.

ADMISSION TO THE UNIVERSITY

GENERAL STATEMENT

All correspondence regarding admission of students to the resident courses of the University and requirements for graduation, should be addressed to the registrar.

Students are admitted to the resident work of the University by certificate or by examination. Only recommended graduates of fully accredited four-year secondary schools are admitted on certificate. Students are classified as graduates and undergraduates. Undergraduates are classified as regular students (freshmen, sophomores, juniors and seniors), unclassified students, and special students.

ADMISSION BY CERTIFICATE

A graduate of a four-year accredited secondary school, whose course has covered the requirements for entrance and who meets the scholarship requirement outlined below, will be admitted upon recommendation of his principal and the presentation of a satisfactory certificate. Since school diplomas do not give the necessary information, they cannot be accepted for this purpose. Principals of all accredited high schools in the state are furnished with official blanks, which also may be obtained from the registrar's office. Credentials accepted toward admission to the University are kept on permanent file.

Credentials for students expecting to enter the University in the autumn quarter, 1928, should be filed in the registrar's office not later than August 15. It is obligatory to submit at entrance, records from all schools previously attended, together with all credentials showing present membership, or past service, in the army, navy, marine corps, National Guard, naval militia, or the United States Coast Guard.

No student may be accepted for admission from a high school who would not be recommended to the University of his home state.

A student graduating from a school system which provides for less than 12 years of instruction may be held for additional high school work.

ENTRANCE REQUIREMENTS

Students applying for admission prior to the autumn of 1929-30, will have the option of having their entrance credentials checked in accordance with the requirements of this catalogue or of the catalogue published in 1926. It is understood that the student will be given the advantage of any provisions under either the new or the old requirements while the adjustments are being made.

1. *Units Required.*—A student having graduated from an accredited high school, is required to present twelve *units of work done entirely in the 10th, 11th and 12th grades. Of the twelve units, not more than four may be in courses primarily designed for ninth grade students. One unit may be made up of fractional credits earned in music, physical education, debate, dramatics, and in other subjects accepted by the high school for graduation. The twelve units shall be distributed as follows:
 - (a) Not more than three units in technical or vocational subjects (except for the College of Business Administration, as noted below).
 - (b) At least eight units from academic groups (English, Mathematics, Natural Science, Social Science, Foreign Language,) so chosen as to include two units of English, but nine academic units are required for all students who do not present a unit of fractional credits in other subjects accepted by the high school for graduation.
 - (c) The specific requirements of the college to which admission is sought, must be met. These are as follows:
LIBERAL ARTS: A second unit of one foreign language, and one unit of geometry.

*A "unit," is applied to work taken in the high school. To count as a unit, a subject must be taught five times a week, in periods of not less than forty-five minutes, for a school year of thirty-six weeks.

SCIENCE: A second unit of one foreign language, and one unit of geometry.

BUS. ADMIN.: One unit of mathematics.† Six units of technical electives may be offered, at least three of which must be in commercial subjects.

ENGINEERING: Solid geometry, advanced algebra, one unit of physics, one-half unit of shop work, and one unit of plane geometry.

FINE ARTS: Two units of foreign language, one of which may be taken in the ninth grade; for architecture, one unit of plane geometry, in addition to the language requirement.

FISHERIES: No specific requirements.

FORESTRY: Advanced algebra, one unit of plane geometry.

MINES: Solid geometry, advanced algebra, and one unit of physics.

PHARMACY: No specific requirements.

A student is advised not to attempt to enter the University until he is able to register in his chosen college without deficiencies. Under certain circumstances and with the approval of the dean of the college concerned, however, certain deficiencies in specific college requirements may be removed after entrance in the University.

2. *Scholarship Required.*—For the year 1928-29, a minimum of eight units must be represented by grades which are at least one step above the passing mark when letters are used to designate grades, or above the passing percentile grade at least one-fourth of the difference between the passing grade and 100 per cent. Such grades shall be known as recommending grades. Beginning with the autumn quarter of 1929-30, and thereafter, nine such units will be required.

3. *Recommending Grades.*—A student who fails to present recommending grades in the required number of units, may try to raise his grades in one of the following ways:

- (a) By repeating the necessary subjects in the high school.
- (b) By attending a Summer High School.
- (c) By taking regular fall deficiency examinations in the high school after having made provision therefor early in the summer.
- (d) By taking the entrance examinations in the University.
- (e) By taking College Board Entrance Examinations.

When a student repeats or reviews subjects for the purpose of earning recommending grades, he should choose, when choice is possible, subjects which will be of greatest value to him in college work. The advice of the high school principal should be sought in deciding upon approved subjects. Applicants for admission whose scholarship is open to question should return to the high school from which they were graduated, and if from other states than Washington should take College Board Entrance Examinations, including the Scholastic Aptitude Test, the following year. Information regarding these examinations may be obtained from

†Commercial arithmetic and elementary algebra do not satisfy this requirement.

the College Entrance Examination Board, 431 West 117 St., New York, N. Y.

4. *Provisional Admission.*—A student who fails to meet the preceding requirements and has not received more than two semester failures in the 10th, 11th, and 12th grades, may be admitted for one quarter upon the principal's recommendation based upon a record showing:

(a) A satisfactory score in a psychological examination.

(b) A rating upon (1) Working traits and (2) Special ability.

It should be understood that the object of this rule is to provide for students of exceptional gifts or qualifications along some line, and not to bolster up the ordinary student who falls short of some part of the general admission requirements.

ACCREDITED SCHOOLS

Secondary schools mentioned in the 1926-27 catalog as accredited may use their accreditation privileges for their graduates of June 1928. The University of Washington will in the future depend on the State Board of Education for lists of accredited public and private high schools for the State of Washington.

SCHOOLS OUTSIDE OF WASHINGTON

Graduates of other secondary schools outside of Washington will be admitted on the same terms as graduates of accredited schools of Washington, provided the school in question is fully accredited (1) by the North Central Association of Schools and Colleges, (2) by the New England College Entrance Certificate Board, or (3) by a leading university whose standards of admission are practically the same as those of the University of Washington. The University of Washington reserves the right to require examinations of graduates of such schools in all cases where it seems advisable to do so.

ADMISSION TO ADVANCED STANDING

Applicants for advanced standing are required to furnish a complete certified statement of both preparatory and college credits, together with a letter of honorable dismissal from the institution last attended.

School of Law.—Requirements for admission to the School of Law are: Clear entrance to the College of Liberal Arts or the College of Science; 90 hours, (two years) of advanced credit in freshman and sophomore courses; covering all prescriptions for admission to upper division standing in the College of Liberal Arts, and 10 hours of military science or physical education. Students who have not complied with the foregoing, may be admitted to the Law School upon the completion of three years' work leading to a bachelor's degree in the University of Washington or any institution ranking therewith, provided further that such work shall meet with the approval of the Dean of the Law School.

School of Journalism.—Requirements for admission to the School of Journalism are: Clear entrance to the College of Liberal Arts; 90 hours, (two years) of advanced credit in freshman and sophomore courses; covering all prescriptions for admission to upper division standing in the College of Liberal Arts, and 10 hours of military science or physical education.

School of Education.—Requirements for admission to the School of Education are: Clear entrance to any college of the University; 90 hours of college credits in courses approved by the faculty of the School of Education and the faculty of the college concerned, and 10 hours of military science or physical education.

Library School.—1. Graduate students are admitted who hold the baccalaureate degree from any college or university of good standing, whose undergraduate work in either or both high school and college has included at least twenty college credits each in German and French.

2. Students are admitted who have qualified for senior standing in the College of Liberal Arts or in the elective curricula in the College of Science, having earned 145 credits, including 10 credits in military science, or physical education, twenty credits each in German and French and all required work. However, students who lack not more than fifteen credits of senior standing (including the languages required above) may be admitted with permission of the dean, but such students must complete the 180 plus 10 hours required for graduation.

Advanced Undergraduate Standing.—Students who present complete transcripts and letters of honorable dismissal from other colleges of recognized rank, may be admitted to the advanced standing for which their training seems to fit them, provided their scholarship meets the standards required of resident students of the University of Washington. No advanced credit will be given for work done in institutions whose standing is unknown, except upon examination. Definite advanced standing will not be given until the student has been in residence at least one quarter.

Admission of Normal School Graduates to Advanced Standing.—Graduates of the two-year curriculum of approved normal schools may receive junior standing provided their credits meet the requirements of the University for entrance, scholarship standards, and credit-hour load.

For graduation with a bachelor's degree a student admitted with advanced credit from a normal school must earn in the University a sufficient number of credits to bring the total up to a minimum of 180 quarter hours (exclusive of required physical education or military science). He must satisfy such specific requirements of the degree as have not been fairly satisfied by previous work.

In fulfilling the requirements of university curricula that allow a large number of elective hours, such as that of the School of Education, normal school credits can usually be fairly well applied. As a rule, a student cannot count much more than two years of normal school work toward completion of curricula that require a major of thirty-five or more hours consecutive and coordinated work in one department. In many set technical or professional courses only a very limited amount of normal school credit can be used.

Extension Service.—Following are certain rules of the faculty and administrative decisions which should be noted by those who wish to obtain credit toward a university degree for their home study work:

(1) "Correspondence students in the Extension Service who have had the required preparation for admission to the University, and whose program has been approved, will upon satisfactory completion of their correspondence work receive a certificate of credit in the University, but the maximum credit for work done by correspondence may not exceed one-half of the hours required of resident students for graduation. Records of credit for correspondence study are filed separately until the student has satisfactorily completed one year in residence, when they become part of the University record."

(2) "The work of the senior year (a maximum of 36 credits earned in 36 weeks, must be done in residence." *Rule 9.*

(3) No student may take an extension course, either correspondence or class, while enrolled as a resident student in the University, without the consent of his dean, approved by the registrar and by the director of the Extension Service. This permission, on forms furnished for the purpose, must be filed in duplicate in the registrar's office and in the extension service office.

ADMISSION TO GRADUATE STANDING

A bachelor's degree from a college or university of good standing is required for admission to the Graduate School. For further details, see Graduate School section, page 220.

ADMISSION BY EXAMINATION

Applicants for admission by examination are required to pass, with grades above 78 per cent in at least two-thirds* of the required work, an examination based on a four-year course totaling fifteen units and covering the requirements of the college the student wishes to enter. The passing grade is 70.

ENTRANCE EXAMINATIONS

Entrance examinations are held at the registrar's office on the following dates: July 18, 19, 20, 1928; September 19, 20, 21, 1928; and December 19, 20, 21, 1928; and March 18, 19, 20, 1929. On these days the following schedule will be adhered to:

First Day	Second Day	Third Day
9-11 English	U. S. History	Physics
11-1 Algebra	Civics	German
2-4 Greek and Latin	Economics	Solid Geometry
Science except Physics	Plane Geometry	French
Trigonometry	Spanish	Commercial
	History other than	Vocational
	U.S.	

Applications for examinations must be filed with the registrar of the University at least three weeks before the dates on which the examinations are held. Proper blanks are obtainable from the registrar on request.

Certificates of successful examinations before the College Entrance Examination Board will be accepted in lieu of matriculation examinations conducted by the University of Washington. With this exception the only examinations recognized for giving entrance credit are the regular scheduled examinations held at the registrar's office, or such other examinations as are authorized by the registrar.

The College Entrance Examination Board will give their examinations in Seattle, Tacoma, and Spokane in 1929 from June 17 to 22 and in 1930 from June 16 to 21. Applicants for examination should communicate, before April 30, with the Secretary of the College Entrance Examination Board, 431 West 117 Street, New York, N.Y.

FOREIGN STUDENTS

Students from schools in foreign countries and non-English speaking communities will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge

*Three-fourths after September, 1920.

of English, acquaintance with American methods of instruction, and plans of study, to enable them to carry regular college work successfully. An examination will be required by the registrar on these supplementary points.

Students from foreign schools whose standing is not known to be the equivalent of accredited American schools may be required to pass examinations in designated subjects.

ORIENTATION COURSE

Introduction to College Study. Section I.—A special orientation course is offered for non-English speaking students who are found to need special training before continuing with a full student load in the University. To a great extent those who are to enroll in this course are chosen on the basis of the results of the entrance examinations required by the registrar. However, the course is open to all students that feel the need of special training.

The course includes such drills as pronunciation, writing, reading, lecturing, methods of study, etc. Special emphasis is laid upon the importance of orientation of the individual to fit properly into American college life. In this course a complete diagnosis is undertaken to determine each student's particular difficulty.

This is a five hour course not counting toward graduation but which is equivalent to a five credit course in the student's schedule.

Introduction to College Study. Section II.—This course is given for students who feel that they do not have a sufficient knowledge of the proper methods of studying in college. Section II is a five hour course, not counting toward graduation, but which is recorded as a matter of determining schedule and for showing work done in case a student transfers to other universities or colleges.

For students who have been dropped from the University because of scholastic difficulties, this course is an avenue of approach for reinstatement at the discretion of the Board of Deans, if a satisfactory record has been established therein. It has been so arranged as to give the student methods of reading and study, preliminary survey of assignments, taking notes, briefing surveys for reviews and examinations, analysis of discussion, definite plans for meeting examination, etc.

Details concerning these courses and registration for them should be made through the Mens' Personnel office. Since they must be self supporting, a fee of \$20 is required for each.

ADVANCED CREDIT BY EXAMINATION

A student may be examined for advanced credit in work that he has not followed in a college class at the University, with the approval of the department concerned. Credits and grades so obtained, must be certified by the examiner and the dean concerned, and shall not be given for work done while the student is in residence.

A student desiring to take an examination for advanced credit must first file an application and obtain a permit at the registrar's office.

Special claims for advanced credit based on credentials are passed on by a committee consisting of the registrar and the dean of the college concerned.

Advanced credit by course examination may not cover more than half of the requirement for graduation. At least one-half of the student's work for a degree must be under the supervision of this or some accredited university. Work under supervision here includes residence class work, extension class work and home study work.

A fee of \$1 per course number will be charged for all examinations outside the regular schedule.

ADMISSION OF SPECIAL STUDENTS

Special students are students of mature years who have not had the opportunity to complete a satisfactory high school course but who, by reason of special preparation and attainments, may be qualified to undertake certain courses, though not as candidates for degrees.

No person less than twenty-one years of age will be admitted to the status of special student, but it is specifically emphasized that mere attainment of any given age does not constitute adequate qualification for admission to this status.

In general, a student from an accredited high school will not be admitted to this classification if he has been in attendance in the high school during the previous year.

The graduates of an accredited high school are not admitted as special students, but are expected to qualify for regular undergraduate standing in accordance with the general rules.

The University has no "special courses"; all courses are organized for regular students—that is, students who have had the equivalent of a good high school education and have been fully matriculated. Special students are admitted to these regular courses for which, in the judgment of the instructor, they have satisfactory preparation.

Entrance examinations in the subjects of fundamental importance for the work proposed will be assigned in all cases in which the Committee on Special Students deems such examinations advisable.

All available certified records for previous school work must be submitted to the registrar at least a month before the beginning of the quarter which the student desires to attend. Such a student must file an application for admission showing the kind of work he desires, the reasons for desiring such work, and if no credits can be presented, a detailed statement of any previous educational work and practical experience with a list of subjects in which the candidate is prepared to take entrance examinations. Special blanks for this information are provided.

By virtue of his classification, a special student is not eligible for any degree. He may ultimately become a candidate for a degree, however, by completing the admission requirements of the college in which he is enrolled.

Special students are not eligible to take part in student activities or to be initiated into a fraternity or a sorority.

Persons desiring to be admitted as special students will apply to the registrar for the necessary application and credential blanks.

AUDITORS

With consent of instructors concerned any mature person, not registered as a student in the University, may be enrolled at the registrar's office as an auditor in not more than two courses on payment of a fee of \$10 a quarter. This provision does not apply to laboratory courses, or to courses offered in the summer quarter.

Rule 1. (a) In the summer quarter, any mature person, with the consent of the dean and the instructor concerned and upon payment of the regular tuition fee, may enroll at the registrar's office as auditor in any number of non-laboratory courses or the lecture parts of any number of laboratory courses.

(b) Persons who, while registered in the University, have attended courses as auditors, shall, in no case, be permitted to take the examination in such courses or obtain credit therefor.

No person may regularly attend any course in which he has not been registered or enrolled as an auditor.

REGISTRATION

Registration for all students for the autumn quarter will take place prior to Monday, October 1; for the winter quarter prior to Monday, January 7, 1929, for the spring quarter, prior to Monday, April 1, 1929, and for the summer quarter, prior to Tuesday, June 18, 1929.

Registration is complete when the election blank has been signed by all required registering officers and the student, when all required fees have been paid, and when all blanks have been left in the registrar's office or other place designated by the registrar. Registration by proxy is not permitted.

Late Registration.—All students are expected to complete their registration (including payment of all required fees) prior to the dates noted above. Students failing to do this will be charged an additional fee of \$2 for the first day's delay, and a further cumulative fee of \$1 for each day thereafter during the first week following the final official registration date. After the first week following the final official registration date no student will be permitted to register except by special action of the Board of Deans. (If a student has been granted a leave of absence or has withdrawn in good standing during a preceding quarter he may be given the privilege of late enrollment to complete unfinished courses, with the consent of the instructors concerned.)

Changes in Registration.—A change of registration is the addition to or the withdrawal from any course that appears on the election blank.

A student desiring to change his registration shall secure a change of registration card from his registering office.

He shall satisfy his dean as to the reasons for the change.

He shall secure the signature of the instructor from whose class he wishes to withdraw and from the instructor whose class he wishes to enter.

He shall present the change of registration card at the sections' window in the registrar's office for approval.

He shall pay a fee of \$1 at the comptroller's office for each change made and get a receipt for same. One change may be considered the withdrawal from or addition of one course at one time. No fee is charged when the change is made on the initiative of the University authorities.

No change in registration involving entrance into a new course shall be permitted after one week (seven days) following the beginning of instruction. No withdrawal from a course will be accepted during the last two weeks of the quarter.

Rule 2. Unsatisfied prerequisites take precedence over other subjects. Any student having any unsatisfied entrance prerequisite must register for the work each quarter until the deficiency is removed. In special cases, permission to postpone the removal may be granted by the dean of the proper college.

Rule 3. Except with the consent of his dean:

(a) No student shall be registered for less than 12 hours of work.

(b) No student shall be registered for more than 16 hours of work (exclusive of military science or physical training), or the number for the respective quarters in the prescribed curricula.

Rule 4. With the consent of his dean, a junior or senior whose previous scholastic record has been exceptionally good, may be registered for a maximum of 20 hours (exclusive of military science or physical education).

Rule 5. No student may be registered for more than 20 hours (exclusive of military science or physical education.)

Rule 6. Work taken to remove entrance deficiencies shall count as a part of the schedule allowed.

Rule 7. A student who is obliged to do outside work must enter on his registration blank a statement of the nature of the work and the number of hours per week so used. In considering petitions for reinstatement the Board of Deans shall take no cognizance of outside work if it has not been noted on the student's registration blank.

Rule 8. A student who registers for an elective course must ultimately complete the course, unless relieved of the necessity by his dean. A student properly withdrawn and given a "W" shall not be affected by this rule.

MEDICAL EXAMINATIONS

All students entering the University for the first time are required to pass a medical examination as a part of their registration requirements. Men will report to the infirmary and women to the gymnasium on the date and hour designated when registering. This appointment takes precedence over all others scheduled for that hour. Students failing to keep the appointment will not be allowed to reregister for another quarter until the examination is passed on the day before the final registration date for that quarter.

EXPENSES

Tuition and Fees.—By authority of the special legislative act of the session of 1921, the following tuitions and fees will be collected:

GENERAL TUITION FEES

Resident Tuition.—Fifteen dollars (\$15) general tuition per regular academic quarter from each student who has been domiciled within the state of Washington or the territory of Alaska for a period of one year prior to the date of registration.

Non-Resident Tuition.—Fifty dollars (\$50) tuition per regular academic quarter from each student who has not been domiciled in the state of Washington or the territory of Alaska for the period of one year prior to registration.

Prospective students from outside the State of Washington should bear in mind certain fundamental legal principles governing this question of resident or non-resident tuition.

(a) The legal word "domicile" and the word "residence" are not equivalent terms; domicile requires more than mere residence.

(b) No one can acquire a domicile merely by residence in the state of Washington when such residence is for the purpose of attending an institution of learning.

(c) The domicile of a minor is that of his father; in the event of the death of his father, that of his mother; in the event of the death of both parents, that of the last deceased parent, until changed by a duly appointed legal guardian.

Every non-resident student will be expected to file a statement of his residence status when first applying for entrance to the University. Blanks for this purpose will be supplied by the University and must be filled out and returned before registration can be completed.

Associated Students Fee.—An associated student membership fee of ten dollars (\$10) for the year (exclusive of summer quarter) is collected of all regularly enrolled undergraduate students upon registration. This fee is

optional with graduate students. The A.S.U.W. fee for the summer session registration is \$1.00.

Exemptions.—All honorably discharged service men or women who served in the military or naval service of the United States during the late world war; and all honorably discharged service men who served in the military or naval services of any of the governments associated with the United States during the said war, provided they were citizens of the United States at the time of their enlistment and who are again citizens at the time of their registration in the University may on application and showing that such fee will be an individual expense be exempted from the payment of the general tuition fee provided they have been domiciled in the state of Washington or territory of Alaska for the period of one year prior to the date of registration. If any such service men have not been domiciled in the state of Washington or territory of Alaska for one year prior to registration they are exempt up to twenty-five dollars (\$25) per quarter. This exemption does not apply to the summer quarter.

Deserving students (domiciled in the state of Washington or the territory of Alaska) who, after a quarter in residence have shown a marked capacity for the work done by them in school, in lieu of paying the general tuition fee, above provided for, may give their promissory notes with interest at the rate of four per cent per annum. All applications for this concession must be presented at the comptroller's office.

PAYMENT OF FEES

Fees for all undergraduates must be paid, either by mail or in person, during a period of two weeks before the first day of any quarter. Failure to observe this requirement will automatically cancel the student's registration and necessitate re-registering by petition to the registrar's office, and paying a late registration fee of \$2 for the first day's delay and \$1 per day additional thereafter up to a maximum of \$7.

Refunding Fees.—Tuition and other general fees are not returnable, except in case of sickness or causes entirely beyond the control of the student. No portion of the returnable fees shall be returned for voluntary or enforced withdrawal after thirty (30) days from the first day of the quarter. In no case shall more than one-half of the fees be refunded. Students withdrawing under discipline forfeit all rights to the return of any portion of the fee.

OTHER CHARGES

Auditor's Tuition Fee.—A fee of \$10 a quarter for each quarter except the summer quarter will be charged all persons enrolling as auditors. For auditors in the summer the regular summer quarter fee applies.

Part Time Tuition Fee.—A fee of \$10 a quarter will be charged persons registering for partial courses not exceeding six (6) credits.

Library Fee.—All students, other than law majors, are required to pay a quarterly fee of one dollar (\$1) for general library book repairs and replacements.

Law Library Fee.—Ten dollars (\$10) per quarter special law library fee from each student registering in law will be charged in addition to the general tuition fee. Students other than majors in law taking work in the School of Law will pay at the rate of one dollar (\$1) for each credit hour of law work elected up to a maximum of \$10 per quarter.

Short Course Tuition.—Twenty dollars (\$20) from each student registering in any short course—mining, forestry, fisheries, etc.

Summer Quarter Tuition.—Twenty-five dollars (\$25) is collected from each summer quarter student. In addition to this tuition one dollar is charged for A.S.U.W. fee.

Marine Biological Station Tuition.—Twenty-five dollars (\$25), of which twenty dollars (\$20) is for tuition and five dollars (\$5) for a general laboratory fee.

Military Uniform Deposits.—Each student registered for military or naval science is required to make a uniform deposit.

In the army units the basic uniform costs \$30 and becomes the property of the student. Upon the completion of each year of satisfactory service the wearer is refunded \$7.15 less any shortages of equipment for which he is responsible.

In the naval unit the deposit is \$25 which is returned at the end of his service. The naval uniform is not the property of the student.

In the navy unit a \$2 fee is retained as a breakage and loss charge.

Special Examinations.—A fee of \$1 per course number will be charged for all examinations outside the regular schedule.

Late Registration.—A penalty of \$2 is imposed upon all undergraduates for the first day's delay in registering and \$1 per day additional thereafter up to the close of the week during which registration is permitted.

Changes of Registration.—A fee of \$1 will be charged for changes in election, including additions or withdrawals of individual courses after completion of registration.

Diploma Fee.—Each graduate receiving a baccalaureate or higher degree, diploma in pharmacy, or a teacher's diploma is required to pay a diploma fee of five dollars (\$5). The fee for other professional certificates is \$1. *The teacher's diploma fee does not include the legal registration fee of \$1 paid to the county school superintendent who first registers a teacher's diploma.*

Transcript Fee.—One transcript of record is furnished the student without charge; a fee of \$.50 is charged for each additional transcript.

Grade Book Fee.—One grade book is furnished the student without charge; a fee of \$.50 is charged for each additional grade book.

Health Service Fee.—A fee of \$1 per quarter will be collected by the University for the maintenance of the health service.

LABORATORY FEES AND DEPOSITS

The following laboratory fees and deposits will be collected quarterly during the ensuing year 1928-1929. With few exceptions, these fees are not returnable in whole or in part, and in no case can any rebate be allowed after 30 days from the first day of the quarter: (Fees and deposits listed below apply individually to each numbered course as segregated under the various subjects.)

Anatomy—110, 111, 112	\$1.00
101, 102, 103, 104, 105, 106, 107, 108.....	3.00
Architecture—112, 113, 40, 41, 42.....	1.00
54, 55, 56, 104, 105, 106, 107, 154, 155, 156, 157, 160, 161, 162, for the year	7.50
158	5.00

Bacteriology—103	1.00
101, 102	4.00
104, 105, 106, 107, 108, 110, 111, 112.....	5.00
Botany—1, 2, 3, 11, 12, 13, 14, 53, 90, 101, 111, 140, 141, 142, 180.....	2.00
181, 182, 199, 220, 233, 247, 250, 251, 271, 272, 273.....	3.00
105, 106, 107, 119, 143, 144, 145, 279, 280.....	3.00
Ceramics—110	5.00
121, 122, 123	10.00
Chemistry—All courses except 52, 152, 173, 200, 201, 202, 203, 215, 216, 221, 222, 223, 231, 232, 233, 249.....	6.50
176, 177, 178, 210, 211, 212, 230, 236, 250—\$1.00 per credit hour.	
Breakage ticket	5.00
Civil Engineering—53, 54, 55, 56, 57, 59, 142, 143, 150, 155, 158, 162, 163, 171	2.00
Dramatic Art—101, 102, 103	1.00
104, 105, 106, 114, 115, 116.....	2.00
Economics and Business Administration. All courses except those listed below .....	.50
15, 16 Typewriting, and 18, 19 Shorthand.....	10.00
81, 82, 83	5.00
Education—All courses except those listed below.....	.50
160D, 160DD, 160Z	1.50
150	3.00
196, 197, 198	2.00
Electrical Engineering—132, 141, 181, 183, 196, 198.....	2.00
102, 110, 112, 122, 162, 164.....	4.00
Engineering Shops—115, 120	1.00
52, 54, 55, 105, 106, 107.....	2.00
53	3.00
Fisheries—53, 54, 60, 101, 102, 103, 104, 105, 112, 140.....	3.00
110, 111, 120, 121, 122, 154.....	4.00
150, 151, 152	5.00
201, 202, 203—\$1.00 per credit hour.	
Forestry—1, 5, 51, 52, 53, 58, 59, 101, 104, 152, 190.....	2.00
160, 161, 162, 187, 188, 189, 196, 213, 214, 215.....	3.00
General Engineering—1, 7, 21.....	2.00
Geography— 1, 11.....	1.00
Geology—1a, 1b.....	1.00
2, 21, 105, 120, 123, 124, 131, 132.....	2.00
125—\$1.00 per credit hour.	
Home Economics 8, 43, 101, 102, 190.....	2.00
25, 111, 112, 113, 121, 127, 130, 131, 133, 135, 143, 183, 188.....	3.00
191	4.00
1, 4, 5, 9, 105, 106, 107, 108, 116, 120.....	6.00
200, 204, 205, 206—\$2.00 per credit hour.	
207, 208, 209—\$1.00 per credit hour.	

Journalism—1, 61, 90, 91, 92, 104, 109, 135, 145, 150, 160.....	1.00
51, 101, 102, 115, 120, 130, 131, 133, 136, 138, 140, 170, 171, 172, 173, 174, 175	2.00
(Maximum fee for any one student \$2.50 per quarter).	
Law—Students registered in Law School, maximum of \$10.00. Stu- dents in other colleges \$1. per credit hour.	
Library Science—Text book fee, one or more courses per quarter....	1.50
Mathematics—13	1.00
Mechanical Engineering—83, 151, 152, 153, 167.....	2.00
Metallurgy—103, 163	5.00
102	10.00
153, 160	12.00
101	20.00
Mining—101, 151, 191, 192, 193, 194.....	5.00
152, 176	10.00
Music—10, 11.....	1.00
18, 19, 20, 68, 69, 70, 118, 119, 120, 168, 169, 170 as listed below:	
Allen, Oliver, Canfield (One lesson a week).....	18.00
Venino, Van Ogle, Mabon, Bogardus, Lawrence, Rosen, Lynch, Wood, Kirchner (one lesson a week).....	25.00
Glen (One lesson a week).....	27.00
Adams (One lesson a week).....	20.00
Piano practice room. An hour a day for a quarter.....	3.00
Key deposit	1.00
Organ Practice room an hour a day for a quarter.....	12.50
Key deposit	1.00
Violin Practice room	1.50
Nursing—5	1.00
50	2.00
Painting, Sculpture and Design—5, 6, 7, 9, 10, 11, 56, 57, 58, 65, 66 67, 80, 81, 82, 102, 110, 111, 151, 152, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 263, 264, 265.....	1.00
53, 54, 55, 103, 104, 130, 157.....	2.00
116 .....	.50
72, 73, 74, 107, 108, 109, 122, 123, 124, 132, 133, 134, 160, 161, 162, 175, 176, 177, 207, 208, 209, 260, 261, 262.....	3.00
158, 159	5.00
Pharmacy—15	1.00
9, 10, 11	3.00
7	4.50
1, 2, 3, 5, 6, 113, 114, 115, 195, 196, 197.....	6.50
191, 192, 193, 201, 202, 203—\$1. per credit hour.	
Physical Education for Men—per quarter.....	1.00
Physical Education for Women—All P.E. classes, or combination of P.E. classes other than those listed below.....	1.50
4, 5, 6, 7, 8, 9.....	.50
95, 96, 97	1.00
87, 88	3.50
94	6.00
All other P.E. courses or combination of P.E. courses combined with 87, 88, or 94, 95, 96, 97—Special fee plus the regular fee of \$1.50.	

Physics—1, 2, 3, 4, 5, 6, 50, 51, 54, 89, 90, 97, 98, 99, 101, 105, 113, 115, 156, 170.....	2.00
154	4.00
Psychology—1	1.50
Sociology—1	1.50
56, 62, 158.....	2.00
55, 142	2.50
Zoology and Physiology—1, 2, 3, 4, 5, 101, 102, 106, 107, 108, 111, 112, 121, 155, 156, 157	2.00
6, 7, 115	3.00
125, 126, 127, 128	3.50
53, 54, 55	4.00
151, 152, 153.....	5.00
201, 202, 203—\$.50 per credit hour.	

BOARD AND ROOM

The University dormitories consist of Lewis Hall and Clark Hall for women and Lander Hall for men. During the ensuing year \$32 a month will be charged for room and board at these residence halls. The rooms are furnished with necessary articles of plain furniture, but the student is expected to supply his own bed linen, bedding, towels, and rugs.

An amount equal to the first month's account is paid in advance and left on deposit to be applied on the board and room account for the last month of the school year.

All remittances should be made in favor of the University of Washington and addressed to the Comptroller of the University of Washington, Seattle.

The University also operates The Commons on the campus, where students so desiring may secure the best food at reasonable rates, cafeteria style.

Outside the campus, board and room may be secured at rates ranging from \$35 to \$40 a month.

UNIVERSITY HEALTH SERVICE

The University maintains a health service which functions primarily in guarding against contagious and infectious diseases. Medical advice and emergency office treatment are available during school hours at the health service building; this building contains medical offices for both men and women, nurses offices and quarters, and a forty-bed infirmary. The University provides a corps of two physicians, one man and one woman, and several nurses who are at the service of the students. As a result of the entrance medical examinations, the students are classified; those found below par are followed up in an effort to apply remedial measures. Close cooperation is maintained with the family physician when possible, rather than in any way supplanting or taking the place of the private doctor.

If a student is taken ill and is unable to call at the medical office he should notify the infirmary clerk before the first class is missed, and the public health nurse will call upon the patient. Disposition of the case is determined on report of this visit. If the patient is a contagious suspect or in unsatisfactory quarters, he is taken to the infirmary and cared for free of cost, except for board at the rate of \$1.50 per day. Scarlet fever and smallpox patients are sent to Firlands Sanitarium and cared for by the city. A local physician may be called in at any time at the patient's expense while he is in the infirmary.

Students absent from classes on account of sickness are not readmitted until they secure cards from the health service office. Record is thus kept of all illness and used as a guide for health supervision. (See Rule 22, page 77).

DEGREES

It is not the policy of the University to grant honorary degrees.

GENERAL RULES

Rule 9. The work of the senior year (a minimum of 36 credits earned in three quarters) must be done in residence.

Rule 10. Each senior shall, before registering for the first quarter of his senior year file with the registrar a written application for his degree. Each application shall be checked by the Committee on Graduation at least six months before the date at which the student expects to be graduated and notice shall be sent to the student by the registrar of the acceptance or rejection of his application. The accepted list shall be submitted at the last regular meeting of the faculty for the quarter in which the checking is done and, if approved by the faculty, with or without modification, shall constitute the list of candidates to be recommended for graduation upon the completion of the work requisite for their respective degrees. No change shall be made in this list unless ordered by a two-thirds vote of the members of the faculty present.

Note.—Applicants who are late in filing their applications cannot be assured of recommendation to the faculty, or of consideration of petitions for modification of requirements.

Rule 11. All students shall have the option of being held to the entrance and graduation requirements of the catalogue under which they enter, or those of the catalogue under which they expect to graduate. All responsibility for fulfilling the requirements for graduation from the various schools and colleges of the University shall be thrown upon the student concerned.

Rule 12. The degrees of B.A. and M.A., B.S. and M.S., or two different bachelor's degrees, may be granted at the same time in all cases in which a minimum of fifteen quarters shall have been occupied in the work for two degrees.

Rule 13. In determining the fitness of a candidate for a degree, his attitude toward his financial obligations shall be taken into consideration.

Rule 14. Theses shall be typewritten on sheets of ledgerweight paper eight and one-half by eleven inches in size, and shall be bound in cloth, with the subject, the name of the author and the date of the presentation on the front cover, and the name and date on the back in gilt letters. A uniform and suitable margin shall be left on the typewritten pages.

DEGREES WITH HONORS

A degree with honors may be conferred on a student who is declared worthy of unusual distinction on recommendation of the honors committee and a vote of the faculty. Early in May each head of a department brings to the attention of the committee on honors such seniors majoring

in his department as he thinks eligible for honors. Honors are not awarded to any student in more than one subject.

NORMAL DIPLOMAS

The University is authorized by law to issue teachers' diplomas, valid in all public high schools of the state. Candidates for these diplomas should register in the department of education as early as possible after the beginning of the sophomore year, and should consult with the department from time to time as to their work for the diploma and their preparation for teaching. Fuller information may be found in the department of education.

FELLOWSHIPS, SCHOLARSHIPS, PRIZES

FELLOWSHIPS

Loretta Denny Fellowships.—Three fellowships, of \$500 each, open to graduate students in any department of the University. Awarded by the faculty on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Application for these fellowships should be made on blanks supplied by the dean of the Graduate School, and must be in his hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

Arthur A. Denny Fellowships.—Six fellowships of \$500 each, open to graduate students in the departments of civil engineering, education, English, history, mining engineering, and pharmacy, respectively. Awarded by the departments concerned on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Applicants must be residents of the state of Washington. Applications for these fellowships should be made to the heads of the departments concerned on blanks supplied by the dean of the Graduate School, and must be in their hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

National Research Fellowships.—Fellowships in physics and chemistry, offered by the National Research Council, are open to promising research students, who have already taken the doctor's degree or have equivalent qualifications. A successful candidate can pursue his research at any university or research institute chosen by him which is acceptable to the appointing board. The salary will ordinarily be \$1800 for the first year. Fellows are eligible for successive reappointments ordinarily with increase in salary. For details address the dean of the Graduate School or the heads of the departments.

University Honorary Fellowships.—Three honorary fellowships have been established by the University. These, like the Loretta Denny fellowships, are open to students in any department of the University. They carry no stipend, and are designed to furnish recognition of exceptional scholastic excellence in the case of graduate students who are not eligible for the Loretta Denny or the Arthur A. Denny fellowships, either because they do not need financial assistance or because they are not giving their entire time to their work in the University.

Research Fellowships.—The College of Mines offers five fellowships for research in coal and clay in cooperative work with U.S. Bureau of Mines. The fellowships are open to graduates of universities and technical colleges who are properly qualified to undertake research investiga-

tions. The value of each fellowship is \$720 to the holder, for the twelve months beginning July 1. Fellowship holders pay tuition and laboratory fees, but are reimbursed for the amounts so expended; they register as graduate students and become candidates for the degree of master of science in the proper subject, unless an equivalent degree has previously been earned.

Each applicant should send a copy of his collegiate record from the registrar of the college where he has graduated, or will graduate in June. He should also send a photograph and a detailed statement of his professional experience, if any, and give the names and addresses of at least three persons who are familiar with his character, training and ability. Applications should be submitted if possible by April 20 in order to allow ample time for consideration, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

Du Pont Fellowship.—Through its chemical department, Du Pont de Nemours & Co. offers an annual fellowship of \$750 in chemistry, known as the "Du Pont Fellowship", open to a senior student or graduate student in chemistry or chemical engineering.

The Bon Marche Industrial Fellowship.—The Bon Marche of Seattle offers an annual fellowship of \$600 to a graduate student in home economics for research work in textiles. The recipient of this fellowship is required to give one-fourth of her time for eleven months to the testing of textiles for the Bon Marche.

The Effie I. Raitt Fellowship.—The Effie I. Raitt fellowship of \$600 is offered annually to a graduate student in home economics for research work in nutrition.

The Skagit Valley Goldenseal Farm Fellowship in Pharmacy.—A research fellowship of \$500 is offered annually to a graduate student in drug plant cultivation.

Nakata Fellowship in Oriental Studies.—Through the generosity of a public-spirited resident of Seattle, Mr. M. Nakata, an annual fellowship of \$300 is available for a graduate student in the department of oriental studies who is a candidate for an advanced degree and is preparing for teaching or research on the Orient or for other professional activity in which knowledge of that field is useful. Graduates of recognized colleges or universities are eligible. For further information application should be made to the Dean of the Graduate School.

The Mars Fellowship.—A research fellowship in astronomy, given by the late Dr. Percival Lowell of the Lowell Observatory, Flagstaff, Arizona, carrying a stipend of \$600, may be awarded annually.

Columbia University Fellowship.—Columbia University offers each year a fellowship of \$250, open to students in mining, engineering and chemistry.

University Teaching Fellowships.—The University each year provides a number of teaching fellowships in various departments. The graduate student receiving such a fellowship divides his time equally between his studies and assistance in the teaching work of the departments in which he is enrolled. These fellowships range from \$540 to \$720.

SCHOLARSHIPS

Graduate Scholarships.—A number of graduate scholarships are open to students who perform service as laboratory assistants, assistants in

charge of quiz sections, or readers. The remuneration is proportioned to the service, and ranges from \$180 to \$360.

Isabella Austin Scholarship.—The Isabella Austin scholarship of \$100 for freshman women is awarded annually at the end of the fall quarter, to a young woman of promise, on the basis of scholarship and financial need.

The P.E.O. Scholarship.—Chapter A.C. of P.E.O. offers an award of \$100 annually to a young woman entering the sophomore class, this award being made on the basis of scholarship, character and need.

The Gamma Phi Beta Scholarship.—The Seattle Alumnae of Gamma Phi Beta offer an annual scholarship of \$100 to that woman among the English major students who most nearly fulfills the following conditions: partial or complete financial self-dependence, high scholarship, strength of personality, wholesomeness of influence and promise.

The Frederick and Nelson Scholarship.—Frederick and Nelson of Seattle offers two scholarships, one to a boy and one to a girl, each of which carries \$250 a year for the freshman and sophomore years. These scholarships are awarded on the basis of scholarship, personality, and business acumen.

The Beta Gamma Sigma Scholarship.—Beta Gamma Sigma offers a scholarship of \$75 in the College of Business Administration, to be awarded to the self-supporting student with the highest grades at the end of the fifth quarter.

The A. F. Venino Scholarship.—Professor A. F. Venino offers an annual scholarship to the candidate showing the greatest proficiency and promise in piano playing. This scholarship carries free tuition for one weekly lesson throughout the autumn, winter and spring quarters. All candidates must submit their application in writing to Dean Glen before September 1. The competitive examination preliminary to the award is held in room 110, Meany hall, at 2 p.m. of the Saturday before registration day.

Beecher Kiefer Memorial Scholarship.—This scholarship is awarded annually to the most talented man student of violin. This award is subject to competition before a committee from the department of music. Applications should be made before June 1.

Mu Phi Epsilon Scholarship.—Mu Phi Epsilon, national honorary musical sorority, offers to a woman student a scholarship of one lesson a week for a school year, in either voice, piano, violin, cello or organ. (See College of Fine Arts section, page 174.)

The Seattle Times Scholarship.—A scholarship of \$1000, offered by the Seattle Times. This is to be awarded to a person who shall prepare himself for clear entrance to the School of Journalism, and who, during the enjoyment of the scholarship, will maintain scholastic requirements of both the University and the School of Journalism.

The Walker Cut Stone Company Scholarship.—From the Walker Cut Stone Company of Tacoma, a traveling scholarship in the amount of \$500, for use in the department of architecture. The student receiving the scholarship must furnish an additional \$500, making a total of \$1000; and must attend the School of Fine Arts at Fontainebleau, France, during the three months' summer session, preparing a series of measured detail drawings of Romanesque architectural stone mouldings and orna-

ments, the same to be published by the Walker Cut Stone Company for the use of architects.

The West Coast Lumber Bureau Scholarship.—From the West Coast Lumber Bureau, a traveling scholarship in wood architecture, in the amount of \$1000, for use in the department of architecture. The junior student selected must familiarize himself with the lumber industry here, with different woods, mill methods, etc.; he must spend two months at the Fontainebleau School of Fine Arts in France; he must continue his studies of wood construction in Switzerland, completing two or three drawings; and upon his return, his work in pamphlet form must be distributed to architects in coast cities and elsewhere.

The Paul Karshner Memorial Scholarships.—Scholarships of \$100 each, given by W. M. Karshner, M.D., and Ella H. Karshner, and awarded to a boy and to a girl who are graduates of the Puyallup high school.

The Phi Mu Gamma Scholarship.—Zeta Chapter of Phi Mu Gamma offers a scholarship of \$100 annually to that man or woman in the department of dramatic art who most nearly fulfills the following conditions: high scholarship at the end of the junior year, strength of personality, activity in campus affairs, and financial need.

SENIOR SCHOLARS

Rule 15. (a) Students of the Colleges of Liberal Arts, Science, Fine Arts, Business Administration, and of the School of Education and Library School who are intellectually mature, who have 132 or more credits, and who have shown exceptional ability and capacity for independent work in some group of studies, shall be eligible for senior scholarships. Senior scholars shall be elected by the faculty, upon recommendation of the Committee on Honors, in the June preceding their senior year and their election shall be announced at Commencement and published in the catalogue. Ordinarily the number of scholars shall not exceed ten per cent of the class. Students of the above mentioned colleges, who, in the course of their senior year, show fitness therefor may be recommended and elected to senior scholarships.

(b) The work of the senior scholars shall be in not less than two nor more than four, allied subjects, which shall be so correlated as to bear upon some common field, the aim of the scholarships being breadth of knowledge and culture, rather than minute research. Except in the case of unfinished prescribed work or of courses in which the major professor deems attendance essential, scholars are to be relieved from attendance at regular lectures and recitations and their work shall be done under the personal direction of the instructors with whom they are registered. The instructors in charge shall submit senior scholars at the end of the year to searching final examinations by which the grade of honor, if any, to be recommended to the Committee on Honors, shall be determined.

(c) Senior scholars shall be granted the library privileges accorded to members of the faculty and such monetary awards, if any, as may be available.

PRIZES

The Judge Alfred Battle Prize in Public Speaking and Debate.—Judge Alfred Battle offers an annual cash prize of \$50 to the Washington debating team chosen to meet representative debaters from the University of Oregon.

Judge Kenneth Mackintosh Prize in Debate.—Judge Kenneth Mackintosh offers an annual prize of \$75 to the University of Washington debating team, consisting of two men, who compete with Stanford University in debate.

Fraternal Order of Eagles Prize.—Seattle Aerie No. 1 of the Fraternal Order of Eagles offers an annual prize of \$100 for the best essay or oration on a selected topic by a student of the University of Washington.

Philo Sherman Bennett Prize.—The Philo Sherman Bennett prize of \$25 annually is "for the best essay discussing the principles of free government."

The Carkeek Prize.—Mr. Vivian Carkeek of Seattle offers an annual cash prize of \$25 for the best student contribution to the *Washington Law Review* by a member of the senior class on a point of Washington law, or any point of peculiar interest to Washington attorneys.

The Jaggard Prize.—In memory of the Hon. Edwin A. Jaggard, late justice of the supreme court of Minnesota, Miss Anna Wright Jaggard offers an annual cash prize of \$50 for the best essay on a topic connected with courses in history of law or jurisprudence.

The Charles H. Bebb Prize in Architecture.—Mr. Charles H. Bebb offers a prize of \$50 in the department of architecture to the sophomore, junior or senior student who submits the best design in the terra cotta treatment.

The American Institute of Architects Prize.—The American Institute of Architects offers annually a silver medal and a book to the graduating senior with the most distinguished record in design for the entire course.

The Frank Buty Prize.—The Frank Buty prize of \$20 is offered annually for the best essay on some subject related to the Italian Language and Literature.

The Italian Commercial Club Prize.—The Italian Commercial Club of Seattle offers a gold medal to the student in the University who attains distinction in Italian.

The A. Merlino Prize.—The A. Merlino Prize of \$25 is offered annually to the student in the College of Science who writes the best essay on "An Italian Scientific Advancement During the Year."

Military Science Prize.—The members of the Non-commissioned Officers' Training School have established a fund of \$400, the income of which shall be utilized as a prize to be awarded to the student completing his junior year with the highest honors in military science.

The Charles Lathrop Pack Prize.—Charles Lathrop Pack, president of the American Tree Association, offers an annual prize of \$50 for the best essay by a student majoring in forestry. The subject shall be chosen with reference to interesting the general public in forestry matters.

The Omicron Nu Prize.—Omicron Nu, national Home Economics honor society, offers an annual cash prize to the freshman student in Home Economics who attains the highest scholastic standing.

The Helen Boetzkes Prize in German.—In memory of her mother, Miss Otilie G. Boetzkes offers an annual prize of \$50 to the student in the department of Germanic Languages and Literature who writes the best essay in German on some phase of the German novel.

The Washington Mutual Savings Bank Prizes.—The Washington Mutual Savings Bank offers three prizes, of \$100, \$50 and \$25 respectively, to undergraduate students in the University for the best essays on selected topics in business finance.

The Northwest Concrete Products Association Prize.—A prize of \$200 given by the Northwest Concrete Products Association, to be awarded to one or several students in the department of civil engineering for investigation and study in concrete, especially along lines that will be beneficial to the concrete products industry.

The Lehn and Fink Medal.—Lehn and Fink, of New York, offers a gold medal each year to the student in the graduating class who prepares the best essay on some scientific topic of pharmaceutical importance.

The American Pharmaceutical Association Medal.—The American Pharmaceutical Association offers a gold medal each year to a student who attains distinction in pharmacy.

STUDENT LOAN FUNDS

Several loan funds are available to assist students, both men and women, through financial emergencies. See the comptroller, men's personnel, or the dean of women for full information.

STUDENT WELFARE AND VOCATIONAL GUIDANCE

MEN'S PERSONNEL OFFICE

The directors of the Men's Personnel Office are concerned with the welfare of the men students of the University. They confer with them on all questions affecting their personal or group interests. Among other duties they hold consultation with students concerning scholastic work, vocational guidance and schedules.

Help is given students seeking part time employment. General housing conditions are under the direction of the Faculty Committee on Student Welfare.

A list of boarding places for men, however, is kept in the personnel office. This office is represented on the faculty committee on Student Welfare and the Committee on Student Loans.

DEAN OF WOMEN

The dean of women is always ready to help or advise any woman student who may need assistance. She supplies lists of approved boarding and lodging places, supervises all houses of residence, corresponds with parents or guardians who desire to make inquiry concerning their daughters or wards, gives advice regarding courses of study, offers vocational information of a general nature, handles loan funds, and acts as counselor to the officers of organizations for women.

STUDENT EMPLOYMENT

Many students who find it necessary to support themselves in part or wholly at the University have been enabled to do so through an employment bureau for men conducted by the Y. M. C. A. and by aid of the men's personnel directors. The dean of women renders a similar service for women.

It is necessary to advise caution in entering the University without funds. The University cannot be responsible for finding work for stu-

dents. During periods of business depression it is especially difficult to obtain part-time work. It is not advisable that anyone should enroll unless provided with sufficient funds to maintain himself for a quarter. A suggested amount for this purpose is \$200. Students expecting to earn a portion of their support should not register for a full schedule.

BUREAU OF APPOINTMENTS

The University maintains a Bureau of Appointments to assist students in obtaining positions for which they are fitted in educational, commercial and industrial fields. Students intending to teach or graduates already engaged in teaching, who are ready for promotion may take advantage of this privilege. Correspondence is invited from universities, normal schools, boards of education, superintendents and principals of schools in need of candidates, and other employers. No commission is charged for the services of the bureau.

ASSOCIATIONS AND CLUBS

Alumni Association.—Everyone receiving a degree from the University of Washington or who has attended the University for two semesters or three quarters is a member of the Alumni Association. The association is governed by the alumni council, consisting of a representative from each of the local alumni organizations, which meets annually. It determines the basic policies of the association which are carried out by the executive committee. The executive committee consists of the president, two vice presidents, the secretary and a treasurer who are elected each year by the dues paying members of the association; and five members elected by the alumni council for a three-year term; together with one representative each from the board of regents, faculty, and associated students. The president for the previous year is also an ex-officio member. The annual dues are \$3, and include a subscription to the official publication, *The Washington Alumnus*.

Associated Students.—The Associated Students of the University of Washington (A.S.U.W.) is the central organization which conducts the activities of the student body. Membership is required of all regularly enrolled undergraduate students. The annual fee is \$10. (\$1 for summer quarter.)

This fee gives each student a membership in the corporation, including a free subscription to the *University of Washington Daily* and free or reduced admission to such football, basketball, baseball games, tennis, track and wrestling meets, crew regattas, debates, oratorical contests, musical concerts as may be designated by the Board of Control.

The management of the Associated Students is vested in an annually elected Board of Control, composed of nine students, three faculty and three alumni. The Board meets bi-weekly and has all the usual powers vested in the directorate of any corporation. The Board employs a graduate manager as its executive agent. He is assisted by student managers, and in 1927 the business transacted amounted to \$916,000. The office of the graduate manager is in room 101 Education Hall. The department has twenty-five employees.

The Board employs a manager of the A.S.U.W. bookstore. In 1927 the sales amounted to \$302,000.

Christian Associations.—The University of Washington Young Men's Christian Association is a Christian service organization, designed to be of service to all men students and members of the faculty. It assists men students in finding acceptable homes while at college and part-time employment when needed. Students and faculty are invited to become

members of the association and to assist in its service features. In co-operation with the campus Young Women's Christian Association the association publishes the "W" Book, a hand-book for students.

Eagleson Hall, home of the association, at the entrance to the campus at East Forty-second street, is designed for the use of all men of the University whether members of the organization, or not. A small fee is requested for the use of the gymnasium and shower baths.

The Young Women's Christian Association on the campus has a membership of 1,000 women and maintains an active organization with headquarters at 205 Home Economics Hall.

The purpose of the organization is to create and promote a spirit of Christian friendliness among women students; to afford opportunities for development of Christian leadership through cabinet and committee work; and to offer channels for self-expression through various forms of service work, both on and off the campus.

A full-time general secretary is employed whose services are at the disposal of every University woman.

Department Clubs.—The following clubs are connected with the work of different University departments: American Chemical Society, American Institute of Civil Engineers, American Institute of Electrical Engineers, American Society of Mechanical Engineers, American Institute of Mining and Metallurgical Engineers, Amonii Socii, Art Club, Business Administration Council, Chemical Club, Circolo Italiano Universitario, Classical Club, Deutscher Verein, Education Club, English Club, Engineers Council, Fisheries Club, French Club, Forestry Club, Graduate Club, Home Economics Club, Law Association, Maritime Commerce Club, Mathematical Journal and Research, Mines Society, Nurses' Club, Officers' Club, Pharmacy Club, Philological Club, Political Science Club, Physical Education Club, Pre-Medic Club, Scandinavian Club, Spanish Club, University Women's Vocational Club, Washington Law Association, Women's Athletic Association, Zeta Mu Tau, Zoology Club.

Religious and Social.—Chinese Club, Christian Science Society, Cosmopolitan Club, Daughters of the American Revolution, Episcopal Sunday Club, Filipino Club, Japanese Club, Mountaineers Club, Newman Club, Menorah Society, Patrons' Association, Pilgrim Club, Service Club of Washington, Sororia, Thalian Dramatic Association, Tillicums, Young Men's Christian Association, Wesley Club, Westminster Club, Women's Ex-Service Club, Women's Federation of the University of Washington, Young Women's Christian Association.

Debating Societies.—There are four debating and literary societies in the University: Stevens, Badger, Athena and Sacajawea. The first two are for men, the last two for women. Membership in the clubs is limited so that frequent practice may be afforded.

The Pacific Coast Triangular Debating League, consisting of the Universities of Washington, Oregon, and Stanford, holds an annual triangular debate. Each institution has two teams, representing the affirmative and negative of the question under discussion.

The men of the University also have a triangular debate league with Whitman College and the University of Idaho.

The women of the University have a dual league with the University of Oregon and a triangular league with Whitman College and the University of Idaho.

Musical Organizations.—The musical organizations consist of the University Choral Society, Men's Glee Club, Women's Ensemble, Orchestra and Band.

Activity Honor Societies.—Fir Tree, Oval Club, Mortar Board, Purple Shield.

Scholastic Honor Societies.—Phi Beta Kappa, Sigma Xi, Tau Beta Pi, Beta Gamma Sigma, Order of the Coif, Gamma Epsilon Pi.

Professional Fraternities.—Alpha Delta Sigma, Alpha Kappa Delta, Alpha Kappa Psi, Atelier, Attic and Easel, Beta Alpha Psi, Delta Theta Phi, Gamma Epsilon Pi, Iota Sigma Pi, Kappa Psi, Lambda Rho, Mu Phi Epsilon, Omicron Nu, Pan Xenia, Phi Alpha Delta, Phi Delta Delta, Phi Delta Phi, Phi Delta Kappa, Phi Lambda Upsilon, Phi Mu Alpha, Phi Mu Gamma, Phi Lambda Theta, Pi Mu Chi, Scabbard and Blade, Sigma Delta Chi, Sigma Epsilon, Sigma Upsilon, Tau Sigma Delta, Theta Sigma Phi, Xi Sigma Pi.

Activity Societies.—Associated University Players, Axe and Grindstone, Big W Club, Delta Phi, Gamma Alpha Chi, Girls' Rifle Club, Hammer and Coffin, Kappa Kappa Psi, Knights of the Hook, Minor W Club, Personnel Officers' Society, Radio Club, Red Domino, Sigma Alpha, Spurs, Tau Kappa Alpha, Tau Phi, University of Washington Band, Varsity Boat Club, Women's Athletic Association, Women's Federation Players, Women's W Club.

Fraternities.—Acacia, Alpha Delta Phi, Alpha Sigma Phi, Alpha Tau Omega, Beta Kappa, Beta Theta Pi, Chi Phi, Chi Psi, Delta Chi, Delta Kappa Epsilon, Delta Sigma Phi, Delta Psi Delta, Delta Tau Delta, Delta Upsilon, Kappa Sigma, Lambda Chi Alpha, Phi Delta Theta, Phi Gamma Delta, Phi Kappa Psi, Phi Kappa Sigma, Phi Sigma Kappa, Pi Kappa Alpha, Pi Kappa Phi, Psi Upsilon, Sigma Alpha Epsilon, Sigma Chi, Sigma Nu, Sigma Phi Epsilon, Sigma Pi, Sigma Tau Epsilon, Tau Kappa Epsilon, Tau Phi Delta, Theta Delta Chi, Theta Kappa Theta, Theta Xi, Theta Chi, Zeta Beta Tau, Zeta Psi.

Sororities.—Alpha Chi Omega, Alpha Delta Pi, Alpha Gamma Delta, Alpha Delta Theta, Alpha Omicron Pi, Alpha Phi, Alpha Xi Delta, Beta Phi Alpha, Chi Omega, Delta Delta Delta, Delta Gamma, Delta Omicron Chi, Delta Zeta, Gamma Phi Beta, Kappa Alpha Theta, Kappa Delta, Kappa Kappa Gamma, Phi Mu, Pi Beta Phi, Phi Omega Pi, Pi Sigma Gamma, Sigma Kappa, Zeta Tau Alpha.

Philological Association.—The Philological Association was organized to encourage scientific investigation in languages and literature. Membership is open to all members of the University who are interested in philology.

Washington University State Historical Society.—The Washington University State Historical Society has for its purpose the preservation of historical documents and records of the Northwest and the state of Washington, and to preserve or publish the results of all investigations.

GENERAL SCHOLASTIC REGULATIONS

STUDIES

At the beginning of each quarter, the student arranges his schedule of studies with the advice and assistance of his class officer. A regular course consists of fifteen or sixteen hours of recitation per week.

Rule 16. No person may regularly attend any course in which he has not been registered as a student or enrolled as an auditor.

REQUIREMENTS IN MILITARY SCIENCE AND PHYSICAL EDUCATION

All women students are required to take three hours of gymnasium work a week throughout the first and second years, ten credits in physical education being required of women for a degree.

Two years of military science are required of all able-bodied male students, except those from foreign countries not intending to become naturalized, (and except men over 24 years of age, at time of original entrance into the University.) By regulation of the University the course is required during the first and second years.

Each student registering in this department will be required to provide himself with the uniform adopted by the University in lieu of the government uniform formerly worn. For particulars, see *Military Science and Tactics*, page 304.

Neither the requirement of physical education for women, nor that of military science for men applies to any student entering as a junior or senior if the student has fulfilled the requirements in these subjects laid down by the institution from which he comes.

Rule 17. It shall be the duty of every student of whom military science is required, and, similarly, it shall be the duty of every student of whom physical education is required, to see that he is properly registered for the course, and to report for instruction. Delays in completion of full registration will not excuse a student from attendance. Students who are required to take military science, and similarly, students who are required to take physical education, but fail to report for classes, will, with the approval of the president, be excluded from all classes. The responsibility of complying with the regulations regarding military science and physical education rests entirely with the student.

Rule 18 (a). Men, who because of physical condition should not be required to take the work in military science shall be permitted to substitute physical training therefor. The authority for such substitution rests solely with the University health officer.

(b) Men or women, who, because of physical condition should, in the judgment of the University health officer, be relieved from the physical education requirement shall be exempted by him for one or more quarters; provided, however, that this shall not include any exemption from the lecture courses thereof.

(c) Students over twenty-four years of age at the time of original entrance into the University are exempt from the University requirements in military science and physical education.

(d) Men who are not citizens of the United States, and who do not intend to become citizens, are not permitted to enroll for military science but are required to satisfy the University requirement in physical education.

(e) Men who, because of pecuniary circumstances necessitating outside work, or because of other sufficient reasons, should not in the judgment of the dean be required to take military science during any particular quarter, may be permitted by the dean to substitute physical training during that quarter therefor. A student desiring to have the benefit of this rule must make written application to the dean of his college, accompanied by a statement of his military record, if any, from the department of Military Science and Tactics. Each grant of permission to substitute must be filed in the registrar's office.

(f) With the approval of the president the department of Military Science and Tactics, may, for good and sufficient reasons, at any time, cancel a student's registration in military science. This cancellation of registration will not operate to reduce the University requirements for graduation. Students whose registration has

thus been cancelled will report to the dean of their college for adjustment. Notice of cancellation of registration will in every case be filed in the registrar's office, a duplicate copy being sent to the dean concerned for his information.

(g) Men who are active members in the army, navy, or marine corps of the United States, or of the National Guard or Naval Militia, or reserve officers of the military or naval forces of the United States, or members of the Naval Reserve, are not permitted to register as members of the Reserve Officers' Training Corps. They will be registered in the department of Military Science but deferred for one quarter only during which time they shall submit satisfactory credentials covering the actual amount of work accomplished. Failure to submit these credentials during the first quarter of residence will make it necessary for the student to take military science during the coming quarter. The deferment of military science for this reason and the evaluation of credentials to satisfy the University requirement shall be a function of the commandant. No deferment will be granted students above mentioned for any purpose other than as outlined in this paragraph.

Rule 19. A short-course student, a special student, or one registered for not to exceed six credits, shall not be required to include military science or physical education in his program.

REGULATIONS FOR WITHDRAWAL

Withdrawal is the voluntary severance by a student of his connection with a course or with the University and is indicated on the registrar's books by a "W." During the first four weeks of a quarter a student may withdraw from a course and be given a "W" with the written consent of his dean and his instructor. If he desires to withdraw from a course at a later period, he may do so at any time prior to the last two weeks of the quarter, but if his work has not been satisfactory he shall be given an "E" instead of a "W." If a withdrawal in either case will reduce the student's hours below 12, it must be approved by his dean. A student who drops a course without withdrawing shall be given an "E" in the course.

LEAVE OF ABSENCE

Rule 22. A leave of absence from the University, involving excuses from classes, may be granted by the dean concerned except as hereinafter provided.

(a) Leaves of absence on account of sickness shall be granted by the University health service, and shall be taken personally to the instructors concerned. Students absent on account of sickness shall not be re-admitted to classes without this written excuse. The University health service shall file a copy of these leaves of absence with the registrar.

(b) Leaves of absence from one class period with the exception of cases included in (a) may be granted by instructors.

(c) Leave of absence from the University for recognized student activities (music, debate, etc.), for student conferences, elections and athletic meets on the campus, shall be passed on by the men's personnel directors and the dean of women, respectively.

SCHOLARSHIP STANDING

For the purpose of applying rules concerning scholarship, students of the University will be divided into two groups; lower division students, (i.e., those with not more than 100 credits) and upper division students, (i.e., those with more than 100 credits).

Lower Division Rules:—

Rule 23 (a) Any student who, any time in a quarter, is reported to the Registrar as doing work below passing grade in any subject shall be warned.

(b) Any student failing to make grades of A, B, or C in two-thirds of his registered hours for any quarter shall be warned.

(c) Any student who, at the end of any quarter, fails in more than one-third of his registered hours, shall be dropped.

(d) Any student who, at the end of the winter or spring quarters, has failed to make grades of A, B, or C, in at least two-thirds of his registered hours for two quarters of the current regular academic year, shall be dropped.

Upper Division Rules:—

(e) Any student who, at the end of any quarter fails to make grades of A, B, or C in at least two-thirds of his registered hours shall be dropped.

All Students:—

(f) Reinstatement of a student disqualified under the provisions of Rule 23 shall be allowed only on permission of the board of deans. If a student is reinstated, he shall be on probation, and shall register under conditions prescribed by his dean, who shall be his registering officer.

(g) Probation is the status of a student who, having been dropped for scholastic failures but reinstated by the board of deans, is compelled to pass in all his registered hours. Such a student shall remain on probation until he has made grades of A, B, or C in at least ten credit hours for one quarter.

(h) In the administration of these rules military science and physical education shall be on the same basis as so-called "academic" subjects."

EXAMINATIONS

Rule 24. Examinations shall be held at the close of each quarter in all courses. Instructors desiring to excuse any or all students from examinations in any course shall obtain the approval of the head of the department and the dean of the college concerned.

Rule 25. Examinations shall be held in each course at the last scheduled class-hour of the quarter, and also at the next preceding class-hour, if desired; except in laboratory courses, when the last laboratory period may be used as a substitute or in addition. In case an instructor wishes to give an examination at other than the scheduled time, he must get the permission of the board of deans.

In certain courses running through two or more quarters the examination on the work of the first quarter is provisional, final credit not being given until the examination for the entire course has been passed.

Under "Departments of Instruction" such courses are indicated by course-numbers connected by hyphens.

Rule 26. A student desiring to be absent from his scheduled examinations must before leaving college, present to the instructors concerned permission from his dean to be absent.

Rule 27. A student, absent from a scheduled examination either by permission of his dean, or through sickness, or other unavoidable cause, may take another examination under the following conditions:

- (a) He shall satisfy his dean as to his reasons for absence;
- (b) He shall pay a fee of \$1 at the comptroller's office and get a receipt for same;
- (c) He shall present this receipt to the registrar, who shall issue a card entitling student to examinations;
- (d) He shall present this card to the instructors concerned and take the delayed examination at a time approved by his dean and instructor. No instructor need give more than one special examination in any one subject in any quarter.

Rule 28. Reports of all examinations of seniors must be in the registrar's office by 6 p.m. of the Monday preceding commencement day. Examination for all candidates for graduation at the end of the autumn, winter, and summer quarters shall conform to the regular examination schedule.

SYSTEM OF GRADES

1. The following is the system of grades:*

A	Honor
B, C,	Intermediate
D	Low Pass
E	Failed
I	Incomplete
W	Withdrawn

Although D is a low passing grade, it represents such a poor quality of scholarship that only a limited number of such grades will be allowed. See Rule 23 Sec. D and E.

The grade "E" is final and a student receiving a grade of "E" in a course can obtain credit for that course only by re-registering for it and repeating it.

A grade of "W" can be given only in case of regular withdrawal in good standing.

An Incomplete is given only in case the student has been in attendance and done satisfactory work to a time within two weeks of the close of the quarter. The two-week limit may be extended to three weeks in those cases in which a student has obtained a regular leave of absence from his dean. (This provision for extension of time shall not apply to one-term summer courses.) An Incomplete in a course is convertible into a passing grade, only during the next quarter in which the student is in residence, and provided the work of the course shall have been finished in a satisfactory manner. In special cases removal of an Incomplete may be deferred by the dean of the proper college. Notice of such deferment must be filed with the registrar.

2. Candidates for the bachelor's degrees in the colleges of Liberal Arts, Science, Business Administration, Fine Arts and Forestry, the Library School, the Law School, the School of Education, and the School of Journalism, must receive grades of A, B, or C in three-fourths of the credits required to be earned in this University for their respective degree.

*These grades correspond approximately to the old marking scheme as follows: A, 100-96; B, 95-86; C, 85-76; D, 75-70; E, 70-0.

3. The grades "passed" or "failed" are used in reporting the work of graduate students.

Rule 29. Except in cases of clerical error, no instructor shall be allowed to change a grade which has once been turned in to the registrar.

TUTORING RATES

Rule 30. The maximum rates to be charged by official tutors shall be as follows:

No. in Class

1.....	\$2.00	per student
2.....	1.20	per student
3.....	1.00	per student
4.....	.90	per student
5.....	.80	per student
6.....	.70	per student
7-15.....	5.00	per class

No class to be larger than 15.

No reduction to be made for absences.

Fees to be payable by the month, in advance.

LIBRARY RULES

Rule 31. Following shall be regulations governing the use of the library:

(a) Any student may borrow books from the library for a period of two weeks; provided, however, that any book may be called in at any time.

(b) A loan may be renewed on or before the day the loan expires if there is no other demand for the book.

(c) A fine of 3 cents per day is imposed for each day a book is retained after it is due; provided, however, that if a book is retained five days or more after it is due the borrower may be assessed double the accumulated fine. The date a book is due is stamped inside the back cover.

(d) Any reserved book may be borrowed for any period when the library is to be closed, but failure to return the same within ten minutes after the library next opens will subject the borrower to a fine of ten cents for the first hour or any part of that hour and five cents for each additional hour or fraction thereof that the book is retained. All fines are due when the book is returned.

(e) Books must not be taken from the library without being charged at the loan desk.

(f) Failure to comply with (c), (d) or (e) shall be considered "a delinquency in a financial obligation."

DISCIPLINE

Rule 32. (a) All charges of infraction of the honor code as promulgated by the A.S.U.W. shall be referred to the senior council established by the A.S.U.W.

(b) The decisions of the senior council in said cases shall be referred to the president of the University before taking effect.

(c) All charges of infraction of the rules and regulations of the

University shall be referred to the faculty committee on discipline for investigation and final decision.

(d) The number of credits required for graduation may be increased as a penalty for violation of the rules of the University.

STUDENT PUBLICATIONS

Rule 34. Only those publications may make use of the good will of the University in soliciting advertising who shall be so designated by the committee on publications.

Rule 35. All requests for permission to issue student publications shall be referred to the committee on publications with power to act.

Rule 36. The editor of the *University of Washington Daily* and the editors of all other student publications shall be held responsible for all matter that appears in their respective publications. Correspondents of all other publications shall be held similarly responsible for all items contributed by them to their respective publications.

Rule 37. No special editions of *The Daily*, by special sets of editors, shall be allowed, except by special permission of the publications committee of the board of control.

STUDENT ACTIVITIES

Rule 38. Student activities shall include:

(a) Any sport or pursuit for which an A.S.U.W. emblem is granted.

(b) Any sport or pursuit organized under an A.S.U.W. coach or a member of the faculty in preparation for (a).

(c) Any semi-scholastic pursuit for which credit is given.

(d) Any all-university public performance managed by students.

(e) The editorship and business managership of all authorized student publications.

(f) All elective offices of the A.S.U.W., head student managerships, memberships of the executive committee, and Council of the Women's Federation, Y.M.C.A., and Y.W.C.A., and class offices.

ELIGIBILITY RULES

GENERAL

Rule 39. (a) In order to be eligible to represent the University in any student activity, a student must:

1. Be registered in the University.
2. Have presented fifteen (15) Carnegie units for entrance requirements.
3. Be registered for at least twelve hours' work in a regular or special course as defined in the curriculum of his school or college.
4. Have passed ten credits of the curriculum in which he is enrolled for the quarter of residence previous to participation. Fractional hours are to be disregarded in favor of the participant.
5. Not have a total of failures on his previous record, in this or any other institution, exceeding one-fifth of his total hours earned.
6. Keep off probation.
7. Secure a written leave of absence, if his absence from classes is required by participation.

(b) An incomplete shall not be counted as failure or passed until adjusted.

(c) The foregoing general rules shall apply to the editors-in-chief and business managers of all authorized student publications. Eligibility in those cases listed under Rule 38(e) shall be ascertained and enforced by the Dean of the School of Journalism.

(d) All elective officers of the A.S.U.W., head student managers, members of the executive committee and council of the Women's Federation, Y.M.C.A. and Y.W.C.A. presidents, and class officers, must comply with these general eligibility rules. Eligibility in the cases listed under 38(f) shall be ascertained and enforced by the committee on Student Welfare.

(e) The current records of all students engaged in student activities as defined in Rule 38, shall be checked at the beginning of each quarter and at the end of the first six weeks of each quarter. Students not having passed successfully in ten units the preceding quarter or not carrying successfully ten units at the end of the first six weeks of the current quarter shall be denied participation for the quarter or for such portion of the quarter as remains.

(f) A student, to be eligible to take part in any intramural meet or game under the control of the department of physical education, must pass any physical tests set by the department of physical education, and practice at least one month before any intramural meet or game. Eligibility in these cases shall be determined by the heads of the department of physical education for men and women respectively.

SPECIAL

Group I

Athletics.

(a) In order to be eligible to represent the University in any intercollegiate athletic activity, a student must:

1. Comply with the foregoing general rules of eligibility.
2. Have been in residence for one calendar year after his matriculation. A student, all of whose college work has been done in a Junior College, who transfers to a conference institution with a minimum of 36 quarter hours' credit, shall be eligible immediately to two years varsity competition, but such transfer shall not be eligible to freshman competition.
3. Have completed thirty-six (36) quarter hours of scholastic work, and earned passing credits therefor.
4. Be, one week before the first conference game, carrying satisfactorily two-thirds of the normal hours of the curriculum in which he is enrolled for the quarter of participation. All members of the squad found eligible one week before the first conference game shall be declared scholastically eligible for the season in question; provided, that in cases of moral delinquency no previous notice shall be required to disqualify.
5. Pass any physical tests set by the department of physical education.
6. Have registered not later than three weeks after the first day of registration in the quarter in which he desires to compete.

(a) No student shall participate in any one intercollegiate sport for more than three college seasons in the aggregate, and shall not compete in varsity competitions in more than four separate academic years.

(b) So far as applicable these regulations shall apply to freshmen. Freshmen shall not be allowed to play with varsity men on a team representing the institution in any outside competition.

(c) Eligibility in athletic cases shall be determined by the chairman of the faculty athletic committee.

(d) Athletics for women shall be limited to games and contests within the University. Such games and contests shall not be open to the public. Eligibility in these cases shall be determined by the head of the department of physical education and hygiene for women.

Group II

Dramatics, music, debate, oratory, for which credit is given.

(a) In these activities a student must comply with the foregoing general rules of eligibility and must satisfy the department responsible for the work, before he is allowed to represent the University; provided, that if a student engages in any part of these activities without registering for the course of which it forms a part, his eligibility shall be determined by the committee on student welfare.

(b) No student shall take part in more than one dramatic performance during a quarter unless such performance is part of a regular course for credit.

Group III

All-University public performances managed by students and not included in Groups I and II.

(a) In these activities, a student must comply with the foregoing general rules of eligibility and satisfy the committee on student welfare before he is allowed to represent the University.

MISCELLANEOUS

Rule 49. Smoking shall not be allowed in the University recitation or laboratory buildings or on the steps thereof.

Rule 50. Push-ball contests, tie-ups, and all other forms of class conflicts are prohibited. Any forms of hazing, or of interference by any class or any members of any class with the personal dignity and liberty of any member of any class, are a breach of discipline and are prohibited.

Rule 51. (a) Student clubs or organizations connected with the work of a department or departments may have speakers to address them at the University, provided the speakers are vouched for by the head of the department concerned. They must also secure the permission of the superintendent of buildings to use the University grounds or buildings.

(b) All extra-departmental groups, wishing to have speakers address them must have the speakers approved by the assembly committee and must secure the permission of the superintendent of buildings for the use of any of the University buildings or any part of the grounds of the University.

Rule 52. There may be three University formal social functions in any academic year, viz., the junior prom and the varsity ball, not open to freshmen, and the cadet ball, open to freshmen.

Rule 53. (a) During the first four weeks of the autumn quarter, no fraternity or sorority nor any organization or club whose membership is made up wholly of men or women shall give any social function at which members of the opposite sex are entertained.

(b) During the college year, social functions may be held on Fridays and Saturdays only. The night before a single University holiday shall be free for social affairs, except in the case of the night before Campus Day.

(c) No social functions involving both sexes may be held within the two weeks preceding the quarter or year examinations.

(d) During the college year, picnics may be held only on Saturdays.

University of Washington

FRATERNITIES AND SORORITIES

Rule 54. (a) No fraternity or sorority shall pledge any person for membership whose registration in the University is not complete. SEE REGISTRATION.

(b) No student having less than junior standing shall be initiated into a fraternity or sorority until he or she shall have earned 18 credits in two quarters, or 15 in one quarter, at this University; provided the required credits in physical education or military science shall not be counted.

(c) Any ex-service man entering the University with fifteen entrance units, at least ten academic credits, and a minimum of ten military credits, shall be regarded as eligible for initiation into a fraternity.

(d) Any ex-service man who, in addition to having fifteen entrance units and a minimum of ten military credits, shall have earned in the University a minimum of ten credits in one quarter, shall be eligible for initiation into a fraternity; provided always that if he is registered for less than fifteen hours, he must have passed in all his hours.

(e) Candidates for initiation into either fraternities or sororities shall secure from the registrar's office a certificate of eligibility.

Rule 55. The location of all fraternity and sorority houses must be approved by the president of the University.

COLLEGE OF LIBERAL ARTS

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) ..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-29

PROFESSORS

Thomson, David, B.A. (Toronto).....*Professor of Latin; Dean of the College of Liberal Arts*
Benham, Allen Rogers, Ph.D. (Yale).....*Professor of English*
Blake, Ralph Mason, Ph.D. (Harvard).....*Professor of Philosophy*
Bolton, Frederick Elmer, Ph.D. (Clark).....*Professor of Education; Dean Emeritus of the School of Education*
Carpenter, Allen Fuller, Ph.D. (Chicago).....*Professor of Mathematics*
Coon, Shirley Jay, Ph.D. (Chicago).....*Professor of Economics and Business Administration*
Cory, Herbert E., Ph.D. (Harvard).....*Professor of Liberal Arts*
Cox, Edward Godfrey, Ph.D. (Cornell).....*Professor of English*
Frein, Pierre Joseph, Ph.D. (Johns Hopkins).....*Professor of Romanic Languages*
George, William H., Ph.D. (Harvard).....*Professor of Political Science*
Gowen, Herbert Henry, F.R.G.S., M.R.S.A., D.D. (Whitman).....*Professor of Oriental Studies*
Griffith, Dudley David, Ph.D. (Chicago).....*Professor of English*
Guthrie, Edwin Ray, Ph.D. (Pennsylvania).....*Professor of Psychology*
Harvey, Edward Leon, A.M. (Oxford).....*Visiting Professor of History*
McKenzie, Roderick Duncan, Ph.D. (Chicago).....*Professor of Sociology*
McMahon, Edward, A.M. (Wisconsin).....*Professor of American History*
Martin, Charles E., Ph.D. (Columbia).....*Professor of Political Science*
Meany, Edmond S., M.L. (Wisconsin), LL.D. (College of Puget Sound).....*Professor of History*
Moritz, Robert Edouard, Ph.N.D. (Strassburg).....*Professor of Mathematics*
Ober, Caroline Haven, Normal (Mass. Normal).....*Professor of Spanish*
Orr, Frederick Wesley, A.M. (Lawrence).....*Professor of English*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Professor of English; Dean of the Graduate School*
Parrington, Vernon Louis, A.B. (Harvard), A.M. (Emporia).....*Professor of English*
Preston, Howard Hall, Ph.D. (Iowa).....*Professor of Economics and Business Administration*
Raitt, Effie Isabel, A.M. (Columbia).....*Professor of Home Economics*
Randolph, Edgar Dunnington, Ph.D. (Columbia).....*Professor of Education*
Richardson, Oliver Huntington, Ph.D. (Heidelberg).....*Professor of European History*
Savery, William, Ph.D. (Harvard).....*Professor of Philosophy*
Sidey, Thomas Kay, Ph.D. (Chicago).....*Professor of Latin and Greek*
Skinner, Macy Millmore, Ph.D. (Harvard).....*Professor of Economics and Business Administration*
Smith, Stevenson, Ph.D. (Pennsylvania).....*Professor of Psychology*
Stuart, Graham, Ph.D. (Wisconsin).....*Visiting Professor of Political Science*
Umphey, George Wallace, Ph.D. (Harvard).....*Professor of Romanic Languages*
Vickner, Edwin John, Ph.D. (Minnesota).....*Professor of Scandinavian Languages*
Winger, Roy M., Ph.D. (Johns Hopkins).....*Professor of Mathematics*
Woolston, Howard B., Ph.D. (Columbia).....*Professor of Sociology*

ASSOCIATE PROFESSORS

Denny, Grace Goldena, A.M. (Columbia).....*Associate Professor of Home Economics*
Densmore, Harvey Bruce, B.A. (Oxford).....*Associate Professor of Greek*
DeVries, Louis Peter, Ph.D. (Wisconsin).....*Associate Professor of Romanic Languages*
Eper, Erwin A., Ph.D. (Ohio State).....*Associate Professor of Psychology*
Goggio, Charles, Ph.D. (Wisconsin).....*Associate Professor of Romanic Languages*
Harrison, Joseph Barlow, B.A. (Oxford).....*Associate Professor of English*
McMahon, Theresa Schmid, Ph.D. (Wisconsin).....*Associate Professor of Economics*
MacNair, Harley F., Ph.D. (California).....*Associate Professor of Political Science*
Milliman, Loren Douglas, A.B. (Michigan).....*Associate Professor of English*
Patzner, Otto, Ph.D. (Wisconsin).....*Associate Professor of French*
Price, Morris T., Ph.D. (Chicago).....*Associate Professor of Sociology*
Stone, Edward Noble, A.M. (Olivet).....*Associate Professor of Classical Languages*

ASSISTANT PROFESSORS

Ballantine, John Perry, Ph.D. (Chicago).....	Assistant Professor of Mathematics
Bliss, Addie Jeannette, A.M. (Columbia).....	Assistant Professor of Home Economics
Chessex, Jean C. W., M.A. (Lausanne).....	Acting Assistant Professor of French
Cole, Kenneth, B.Lit. (Oxford).....	Assistant Professor of Political Science
Creer, Leland Hargrave, Ph.D. (California).....	Assistant Professor of History
Draper, Edgar Marion, Ph.D. (Washington).....	Assistant Professor of Education
Dresslar, Martha Estella, M.S. (Columbia).....	Assistant Professor of Home Economics
Dvorak, August, Ph.D. (Minnesota).....	Assistant Professor of Education
Eckelman, Ernest Otto, Ph.D. (Heidelberg)....	Assistant Professor of Germanic Languages
Garcia-Prada, Carlos, A.M. (Michigan).....	Assistant Professor of Spanish
Gavett, George Irving, B.S. (C.E.) (Michigan).....	Assistant Professor of Mathematics
Griffin, Eldon, A.B. (Harvard).....	Assistant Professor of Oriental Studies
Groth, John H., Ph.D. (Columbia).....	Assistant Professor of English
Hayner, Norman Sylvester, Ph.D. (Chicago).....	Assistant Professor of Sociology
Helmlinge, Charles Louis, M.A. (Washington)....	Assistant Professor of Romance Languages
Hughes, Glenn Arthur, M.A. (Washington).....	Assistant Professor of English and Dramatic Art
Langford, Cooper H., Ph.D. (Harvard).....	Assistant Professor of Philosophy
Lucas, Henry, Ph.D. (Michigan).....	Assistant Professor of History
McFarlan, Lee H., Ph.D. (Missouri).....	Assistant Professor of Mathematics
Mander, Linden Alfred, M.A. (Adelaide, Australia).....	Assistant Professor of Political Science
Mullemeister, Hermance, Ph.D. (Cambridge).....	Assistant Professor of Mathematics
Neikirk, Lewis L., Ph.D. (Pennsylvania).....	Assistant Professor of Mathematics
Payne, Blanche, B.S. (Columbia).....	Assistant Professor of Home Economics
Read, William Merritt, Ph.D. (Michigan).....	Assistant Professor of Classical Languages
Rivers, Elizabeth Anne, M.A. (Columbia)....	Acting Assistant Professor of Home Economics
Rahskopf, Horace, M.A. (Iowa).....	Assistant Professor of English
Rowntree, Jessie Irene, M.S. (Chicago).....	Assistant Professor of Home Economics
Small, George W., Ph.D. (Johns Hopkins), B.Lit. (Oxford).....	Assistant Professor of English
Stern, Bernhard J., Ph.D. (Columbia).....	Assistant Professor of Sociology
Walt, Bernice, M.A. (Illinois).....	Acting Assistant Professor of Home Economics
Williams, Curtis Talmadge, Ph.D. (Clark).....	Assistant Professor of Education
Winther, Sophus Keith, Ph.D. (Washington).....	Assistant Professor of English
Zanstra, Herman, Ph.D. (Minnesota)....	Assistant Professor of Astronomy and Mathematics

LECTURERS

Melnsast, Frederick William, Ph.D. (Wisconsin).....	Lecturer in German
Sperlin, Otis Bedney, Ph.M. (Chicago).....	Lecturer in English

INSTRUCTORS

Bird, Winfred, M.A. (Washington).....	Instructor in English
Cramlet, Clyde Myron, Ph.D. (Washington).....	Instructor in Mathematics
Dahlin, Ebba, Ph.D. (Stanford).....	Instructor in History
Dobie, Edith, Ph.D. (Stanford).....	Instructor in History
Eby, Edwin H., Ph.D. (Washington).....	Instructor in English
Ethel, Garland O., Ph.D. (Washington).....	Instructor in English
Gillette, Alletta, M.A. (Washington).....	Extension Instructor in English
Gundlach, Ralph, M.A. (Washington).....	Instructor in Psychology
Hulse, Granvyl G., Ph.D. (Harvard).....	Instructor in Political Science
Ingram, Wyatt H., M.S. (Mass. Inst. of Tech.).....	Instructor in Mathematics
Jerbert, Arthur, Ph.D. (Washington).....	Instructor in Mathematics
Quainton, Cecl Eden, B.A. (Cambridge).....	Instructor in History
Sanchez, Frederic, A.M. (Michigan).....	Instructor in Spanish
Simpson, Lurline, M.A. (Washington).....	Instructor in French
Ware, James R., A.M. (Pennsylvania).....	Instructor in Classical Languages
Whittlesey, Walter Bell, M.A. (Washington).....	Instructor in French
Wilkinson, Madge, Ph.D. (Washington).....	Instructor in Psychology
Wilson, Francis G., Ph.D. (Texas).....	Instructor in Political Science
Windesheim, Karl A., M.A. (Washington).....	Instructor in English

¹Absent on leave.

ASSOCIATES

Ballaine, Genevieve Knight, A.B. (Olivet).....	Associate in Latin
Brown, Lois, M.A. (Washington).....	Associate in English
Brown, Sarah H., M.A. (Washington).....	Associate in Philosophy
Buchanan, Iva, M.A. (Washington).....	Associate in History
Cappon, Alexander C., M.A., Ph.B. (Chicago).....	Associate in English
Cedarstrom, Moyle F., M.A. (Minnesota).....	Associate in English
Cornu, Donald, Ph.D. (Washington).....	Associate in English
Garcia, Eduardo C., M.A. (California).....	Associate in Spanish
Hall, Amy Violet, M.A. (Washington).....	Associate in English
Hamilton, Rachel, M.A. (Washington).....	Associate in French
Hathway, Marion, M.A. (Chicago).....	Associate in Sociology
Jones, Pamela Pearl, A.M. (Iowa State).....	Associate in English
Kerrigan, Sylvia Finlay, M.A. (Washington).....	Associate in English
Lawson, Jane S., M.A. (Saint Andrews).....	Associate in English
Lewis, Hunter Campbell, M.A. (British Columbia).....	Associate in English
Mark, Sara N., M.A. (Washington).....	Associate in English
Nix, Martha, M.A. (Washington).....	Associate in English
Peterson, Sigurd H., B.A. (Washington).....	Associate in English
Phillips, Herbert, B.A. (Washington).....	Associate in Philosophy
Schmid, Calvin, B.A. (Washington).....	Associate in Sociology
Shephard, Esther, M.A. (Washington).....	Associate in English
Southwick, Charles, A.M. (Washington).....	Associate in French
Schertel, Max, B.A. (Washington).....	Associate in German
Vickner, Bertha Almen, M.A. (Washington).....	Associate in English
Wagenknecht, Edward, A.M. (Chicago).....	Associate in English
Wesner, Eleanor, A.M. (Northwestern).....	Associate in German
Wilson, William, M.A. (Washington).....	Associate in Spanish

COOPERATING FACULTY

Foster, Henry M., A.M. (Columbia).....	Assistant Professor of Men's Physical Education
Glen, Irving Mackey, A.M. (Oregon).....	Professor of Music; Dean of the College of Fine Arts
Goodspeed, George Edward, Jr., B.S. (Mass. Inst. of Teach.).....	Associate Professor of Geology
Gross, Mary Emma, A.M. (Columbia).....	Associate Professor of Physical Education for Women
Hall, David Connolly, Sc.M., M.D. (Chicago).....	University Health Officer; Professor of Hygiene
Jones, Robert W., A.M. (South Dakota).....	Associate Professor of Journalism
Kincaid, Trevor, M.A. (Washington).....	Professor of Zoology
Lovejoy, Albert R., B.L.I. (Emerson).....	Acting Assistant Professor of Dramatic Art
Osborn, Frederick Arthur, Ph.D. (Michigan).....	Professor of Physics
Rigg, George Burton, Ph.D. (Chicago).....	Professor of Botany
Smith, George McPhall, Ph.D. (Freiburg).....	Professor of Inorganic Chemistry

DEPARTMENT EXECUTIVE OFFICERS

<i>Anthropology</i>	Jacobs, Melville.....	101 Museum
<i>Classical Languages and Literature</i>	Slidey, Thomas K.....	210 Denny Hall
<i>English</i>	Griffith, Dudley D.....	220 Denny Hall
<i>Germanic Languages and Literature</i>	Eckelman, Ernest O.....	315 Home Economics Hall
<i>General Literature</i>	DeVries, Louis P.....	209 Denny Hall
<i>History</i>	Meany, Edmond S.....	201 Denny Hall
<i>Liberal Arts</i>	Cory, Herbert E.....	214 Denny Hall
<i>Oriental Studies</i>	Gowen, Herbert Henry.....	315 Philosophy Hall
<i>Philosophy</i>	Savery, William.....	264 Philosophy Hall
<i>Political Science</i>	Martin, Charles E.....	225 Philosophy Hall
<i>Romantic Languages and Literature</i>	Frein, Pierre Joseph.....	209 Denny Hall
<i>Scandinavian</i>	Vickner, Edwin John.....	208 Denny Hall
<i>Sociology</i>	McKenzie, R. D.....	234 Philosophy Hall

I. GENERAL STATEMENT

Instruction Provided.—The College of Liberal Arts provides instruction in languages, education, economics and business administration, history, mathematics, philosophy, political science, psychology, sociology, and anthropology. Here too, the students preparing to enter the Schools of Law, Journalism, Education and Library Science naturally receive their preliminary training. With the College of Science, it affords the student an opportunity to acquire a general education which shall serve as a sure foundation for real success in whatever profession he may choose. In the College of Liberal Arts the work of the high school is closely articulated with that of the college. To obtain the degree of bachelor of arts the students must first fulfill the requirements of the lower division and then complete two years of work in the upper division. The detailed requirements are set forth below.

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration and expenses, may be found on pages 52, 59 and 60.

II. REVISED ENTRANCE REQUIREMENTS

Units Required.—A student having graduated from an accredited high school, is required to present twelve units of work done entirely in the 10th, 11th and 12th grades. Of the twelve units, not more than four may be in courses primarily designed for ninth grade students. One unit may be made up of fractional credits earned in music, physical education, debate, dramatics, and in other subjects accepted by the high school for graduation. The twelve units shall be distributed as follows:

1. Not more than three units in vocational or technical subjects.
2. At least eight units from academic groups (English, Mathematics, Natural Science, Social Science, Foreign Language) so chosen as to include:
 - a. Two units of English
 - b. Two units of one foreign language
 - c. One unit of geometry.

A student graduating from a school system which provides for less than twelve years of instruction may be held for additional high school work.

"Unit" Defined.—A "unit" is applied to work taken in high school; a "credit" to work taken in college. To count as a unit, a subject must be taught five times a week, in periods of not less than forty-five minutes, for a school year of thirty-six weeks. In satisfying entrance requirements with college courses, a minimum of ten credits is counted as the equivalent of the entrance unit.

Recommending Grades.—For the year beginning with the Autumn Quarter of 1928-29, a minimum of eight units must be represented by grades which are at least one step above the passing mark when letters are used to designate grades, or above the passing percentile grade at least one-fourth of the difference between the passing grade and 100 per cent. Such grades shall be known as recommending grades. Beginning with the autumn quarter of 1929-30, and thereafter, nine such units will be required. No student may be accepted for admission from a high school who would not be recommended to the University of his home state.

Note—Students applying for admission prior to the autumn of 1929-30, will have the option of having their entrance credentials checked in accordance with the requirements of this catalogue or of the catalogue published in 1926. It is understood that the student will be given the advantage of any provisions under either the new or the old requirements while the adjustments are being made.

Provision for Raising Grades.—A student who fails to present recommending grades in the required number of units, may try to raise his grades in one of the following ways:

1. By repeating the necessary subjects in the high school.
2. By attending the Summer High School.
3. By taking regular fall deficiency examinations in the high school after having made provision therefor early in the summer.
4. By taking the entrance examinations in the University.

When a student repeats or reviews subjects for the purpose of earning recommending grades, he should choose, when choice is possible, subjects which will be of greatest value to him in college work. The advice of the high school principal should be sought in deciding upon approved subjects.

Provisional Admission.—A student who fails to meet the preceding requirements and has not received more than two semester failures in the 10th, 11th, and 12th grades, may be admitted for one quarter upon the principal's recommendation based upon a record showing:

1. A satisfactory score in psychological examination.
2. A rating upon (a) Working traits and (b) Special ability.

It should be understood that the object of this rule is to provide for students of exceptional gifts or qualifications along some line, and not to bolster up the ordinary student who falls short of some part of the general admission requirements.

High School Deficiencies.—A student is advised not to attempt to enter the College of Liberal Arts until he is able to do so without deficiencies. In rare circumstances, and with the approval of the dean, certain deficiencies may be removed after entrance to the college; but, such deficiencies must be made up in college as part of the student's regular schedule of work without college credit therefor. Unsatisfied prerequisites take precedence over other subjects. Any student having any unsatisfied entrance prerequisite must register for the work each quarter until the deficiency is removed. In special cases, permission to postpone the removal may be granted by the dean. A student has the privilege of making up his deficiency in high school, but must reduce his schedule in college accordingly while doing so.

Electives in Secondary School.—In order to secure the greatest freedom of election in college, electives in the secondary school should be distributed over the four years as follows:

1. U. S. History and civics..... 1 unit
2. History other than U. S..... 1 unit
3. Physics or Chemistry, with laboratory..... 1 unit
4. Botany, Geology, or Zoology with laboratory..... 1 unit
5. Mathematics, Language, History, or one of the sciences mentioned in 3 or 4..... 1 unit
6. Electives, selected from subjects accepted by an accredited High School for its diploma..... 3 units

Less than one unit will not be counted in physics, chemistry, general biology or a foreign language. A maximum of 4 units will be counted in vocational subjects.

Foreign Languages Accepted.—For the College of Liberal Arts the foreign language requirement may be satisfied by Latin, Greek, French, German, Spanish, Scandinavian or Italian. If a student fails to present two units in one of these languages, but presents two units in another foreign language, he will receive college credit for required foreign language taken in the University.

Foreign Students.—Students from approved schools in foreign countries will be admitted under the same general conditions as those from American schools, provided they have a sufficient working knowledge of English to enable them to carry regular college work successfully.

For description of special orientation course for non-English speaking students see General Information section, page 57.

Transfer Students.—It is highly desirable that students entering the College of Liberal Arts from another institution should obtain from the registrar, as soon as possible, a statement of their requirements for the bachelor's degree. Otherwise, by failing to fulfill the requirements, they will find their graduation postponed for a quarter or more, despite the fact that they may have earned credits sufficient in number to entitle them to the degree.

Normal Graduates.—Graduates of the two-year curriculum of approved normal schools may receive junior standing provided their credits meet the requirements of the University for entrance, scholastic standing, and credit hour load. For graduation with the degree of bachelor of arts a normal school graduate with such advanced credit must earn in the University a sufficient number of credits to bring the total up to 180 credits plus ten credits of required courses in physical education or military science, and including all specific requirements for the degree not fairly covered by previous work. Claims for exemption from specific requirements, based on work in normal school, are passed on by the registrar and the dean of the college. It should be noted that a student whose work in high school and normal school has not included a sufficient number of special requirements of the College of Liberal Arts, may find it necessary to offer more than the usual 180 scholastic credits for the degree of bachelor of arts.

Medical Examinations.—All students entering the University for the first time are required to present themselves for appointment for medical examination, on or before the day following registration, men to the infirmary, and women to the department of physical education for women in the gymnasium.

III. LOWER DIVISION

Specific Requirements.—The work of the lower division comprises studies of the freshman and sophomore years of the undergraduate curriculum. A student is said to be enrolled in the lower division until he has completed all such courses as are required during the first two college years, and until he has attained a minimum of 90 scholastic credits. Specific requirements are listed on the following page.

REQUIREMENTS	EXEMPTION
1. <i>History, U. S.</i> ; 57-58-59	One year of U. S. History in High School. (may be $\frac{1}{2}$ civics and $\frac{1}{2}$ U. S. History.)
2. <i>History</i> , other than U. S. May be satisfied by 1-2; or 5-6; or 71-72-73	One year of any History other than U. S. in High School
3. <i>English</i> 1-2; ten credits	Exemption by examination only
4. <i>Ancient Life and Literature</i> (in translation)—ten credits. May be satisfied by "a" or "b" or "c" a. Any two: Latin 11, 13, Greek 11, 13, or b. Any two: Ori Studies 50, 51, 52, or c. Greek 15-16	Three years of ancient language in High School or College, or in High School and College combined.
5. <i>Physical Science</i> —ten credits, of either: a. Physics 4-5 b. Physics 89-90 (Women only) c. Chemistry 1-2	One year of one in high school
6. <i>Biological Science</i> —ten credits from one of the following groups: a. Botany 1, 2, 3, 4; b. Botany 105, 106, 107; c. Geology 1a-1b-2; d. Geology 1a-1b, 21; e. Geology 1a-1b, Geography 1 or 11; f. Geology 1a-1b, Geography 112; g. Geography 1 and 11 or 101 or 103; h. Zoology 1-2;	One year of one in high school
7. <i>Social Science</i> —ten credits of one or five credits each of two. May be satisfied by: a. Any two of—Economics 1, Political Science 1, Sociology 1, or by b. Any one of courses in "a", together with another five credit course for which it is a prerequisite.	No exemption. (Students who did not have civics in High School must have Political Science 1.)
8. <i>Psychology</i> 1; five credits	No exemption
9. <i>Philosophy</i> ; 5 credits. May be satisfied by 1 or 2 or 3 or 5	No exemption (Not open to freshmen)
10. <i>Military Science or Physical Education</i> ; ten credits	No exemption

Planning Schedules in Lower Division.—As a rule students in the lower division must confine their election to courses numbered 1 to 99 in the catalogue. If a student has had the proper prerequisite or is deemed qualified in intellectual maturity he may register for an upper division course with the consent of the dean and instructor concerned. If a student avails himself of this privilege he should be careful not to allow it to interfere with the completion of all the requirements of the first two years.

IV. UPPER DIVISION

Planning Schedules in Upper Division.—The upper division comprises the studies of the junior and senior years. It consists principally of the advanced work of the undergraduate curriculum, and is therefore differentiated, both in content and method from that of the lower division. A student is said to be enrolled in the upper division when he has completed all such studies as are required during the first two college years and has attained a minimum of 90 scholastic credits, plus the ten credits in military science or physical education.

Number Upper Division Credits Required.—At least 60 credits of the 180 scholastic credits required for graduation must be in upper division courses (courses numbered 100 to 199, or courses numbered below 100 for which upper division credit can be earned); and these 60 upper division credits shall include at least 50 per cent of the credits offered in the major.

V. SCHOLARSHIP STANDING

Student Classification.—For the purpose of applying rules concerning scholarship, students of the University will be divided into two groups; lower division students, (i.e. those with not more than 100 credits) and upper division students, (i.e. those with more than 100 credits).

Lower Division Students.—Rule 23:

(a) Any student who, any time in a quarter, is reported to the Registrar as doing work below passing grade in any subject shall be warned.

(b) Any student failing to make grades of A, B, or C, in two-thirds of his registered hours for any quarter shall be warned.

(c) Any student who, at the end of any quarter, fails in more than one-third of his registered hours, shall be dropped.

(d) Any student who, at the end of the winter or spring quarters, has failed to make grades of A, B, or C, in at least two-thirds of his registered hours for two quarters of the current regular academic year, shall be dropped.

Upper Division Students.—Rule 23:

(e) Any student who, at the end of any quarter has failed to make grades of A, B, or C, in at least two-thirds of his registered hours shall be dropped.

All Students.—Rule 23:

(f) Reinstatement of a student disqualified under the provisions of this rule shall be allowed only on permission of the board of deans. If a student is reinstated, he shall be on probation, and shall register under conditions prescribed by his dean, who shall be his registering officer.

(g) Probation is the status of a student who, having been dropped for scholastic failures but reinstated by the board of deans, is compelled to pass in all his registered hours. Such a student shall remain on pro-

bation until he has made grades of A, B, or C in at least ten credit hours for one quarter.

(h) In the administration of this rule military science and physical education shall be on the same basis as so-called "academic subjects."

VI. MAJORS AND ELECTIVES

Major Credits Required.—From 36 to 60 credits must be earned in a single department known as the major department but for a major in English, 10 credits in English 1-2 may be counted in addition to 60 credits in other English courses. Of the credits earned in the major, at least 50 per cent must be in upper division courses. In the application of this rule, courses 1-2 in English or a foreign language may be disregarded when counting credits for a major.

Majors Offered.—The following are the departments from which a candidate for the B. A. degree must select his major:

Anthropology	Greek	Political Science
Economics	History	Philosophy
Education	Home Economics	Psychology
English	Latin	Romanic Lang. & Lit.
Gen. Literature	Mathematics	Scandinavian
German	Oriental Studies	Sociology

Students should consult with the executive officer of a department before registering for courses in their prospective major. Students who consider majoring in one of the above departments will avoid delays and inconveniences by consulting early, preferably in their freshman year, with the executive officer of the department concerning all the lower division courses which they ought to take. For suggestions to students intending to enter the Schools of Education, Journalism, Law, or Library Science see pages 97-103.

Group Limitations.—At least 72 credits, including the major, must be earned in the group in which the major department falls. For this purpose the departments are grouped as follows:

No. 1—*Language and Literature.*—Classical languages and literature, English, general literature, German, Oriental studies, Romanic languages and literature, Scandinavian.

No. 2—*Philosophical.*—Anthropology, economics and business administration, education, history, liberal arts, mathematics, philosophy, political science, psychology, sociology.

Majors in Home Economics must present a total of seventy-two credits in Home Economics and related courses in the following departments: Architecture, bacteriology, chemistry, painting, sculpture and design, physics, physiology.

Department Limitations.—The number of credits in the major and any other single department combined must not exceed 96 (except when English is combined with the major department for the purpose of this total, credits in English 1-2 may be disregarded). In the application of this rule, French, Italian and Spanish are treated as separate departments.

Economics Majors.—Liberal Arts students majoring in economics must take courses 1, 2, and 160 and at least 35 additional credits in courses from the following list:

- | | |
|--|---------------------------------------|
| 60. Labor in Industry. | 129. Taxation. |
| 61. Social and Economic Standards of Living. | 131. Economics of Public Utilities. |
| 103. Money and Banking. | 159. Advanced Money and Banking. |
| 104. Economics of Transportation. | 161. Labor Problems. |
| 106. Economics of Marketing and Advertising. | 162. European Labor Problems. |
| 108. Risk and Risk Bearing. | 164. Land Economics and Real Estate. |
| 121. Corporation Finance. | 165. Labor Legislation. |
| 122. Principles of Investment. | 166. Women in Industry. |
| 124. Public Finance. | 168. Development of Economic Thought. |
| | 171. Modern Trends and Criticism. |
| | 181. Economics of Consumption. |

Other courses offered in the summer quarter shall be accepted on an economics major only upon the approval of the dean of the College of Business Administration.

Scheme of Electives.—For the purpose of election, outside the major department, the College of Liberal Arts, the College of Science, the School of Education, the College of Business Administration, and the School of Journalism are treated as one. A total of thirty-six credits in courses given outside these colleges may be counted toward a bachelor of arts degree. Of these thirty-six not more than twenty-four may be taken in any one college or school, except that from the College of Fine Arts thirty-six credits may be counted.

VII. SCHEDULE LIMITATIONS

Dean's Signature.—No student shall be registered for more than 16 hours a quarter (exclusive of military science and physical education), or for less than 12 hours a quarter except with the written consent of the dean.

Outside Work.—In addition to a load of 16 plus $1\frac{1}{2}$ hours a student may carry a maximum of 8 hours per week outside work without special permission. But if he carries more than 8 hours of outside work, he must have the dean's signature for excess hours, each 3 hours of outside work counting the same as one credit hour. A student who is obliged to do outside work must enter on his registration blank a statement of the nature of the work and the number of hours per week so used. In considering petitions for reinstatement the Board of Deans shall take no cognizance of outside work if it has not been noted on the student's registration blank.

Excess Hours Based on Grades.—No entering freshman may carry excess hours. Other students, when applying to the dean for this privilege, must bring their grade books. Requests will be granted only under the following conditions:

- 17 hours, when grades average B, with no grade below C
- 18 hours, when grades are straight B—or better
- 19 hours, when all grades are A

Juniors and seniors who have made *exceptionally* good records may in rare cases be allowed to carry 20 hours.

High School Deficiencies.—Deficiencies which are being made up in high school shall count on the student's schedule as five hours per half unit.

VIII. REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Total Hours.—To obtain the degree of bachelor of arts (B. A.) the student must complete not less than 190 credits, must observe the restrictions in regard to major and group requirements, scholarship requirements, and the requirements of the lower and upper divisions, and must

show a reading knowledge of one of the foreign languages taught in the University. Detailed information is given below.

Graduation Option—Catalogues.—All students shall have the option of being held to the entrance and graduation requirements of the catalogue under which they enter, or those of the catalogue under which they expect to graduate. All responsibility for fulfilling the requirements for graduation from the various schools and colleges of the University shall be thrown upon the student concerned.

All Courses Must be Completed.—A student who registers for an elective course must ultimately complete the course, unless relieved of the necessity by his dean. A student properly withdrawn and given a "W" shall not be affected by this rule. A grade of "W" can be given only in case of regular withdrawal while in good standing.

Reading Knowledge of a Foreign Language.—A reading knowledge of one of the foreign languages taught in the University is required for graduation from Liberal Arts. Students may take the test in satisfaction of this requirement during any quarter of residence, and must sign up for it in the dean's office not later than a date set at least four weeks from the end of the quarter. This requirement does not apply to graduates of the six-year Arts and Law curriculum, nor to students planning to graduate under the catalogue of 1922-1923, or under earlier catalogues.

Residence Work.—A minimum of three full quarters of residence in the senior year, with completion of 36 credits, is required for any degree granted by the University. Senior standing is attained when 135+10 hours have been completed.

Grades.—Not less than three-fourths of the credits required for graduation must be earned with grades of A, B, or C.

Grades Cannot Be Changed.—Except in cases of clerical error, no instructor shall be allowed to change a grade which has once been turned in to the registrar.

Failures.—Grade "E" is final and a student receiving a grade of "E" in a course can obtain credit for that course only by re-registering for it and repeating it.

Knowledge of Federal and State Constitutions.—A requirement for any degree granted by this University is a knowledge of the Federal and State constitutions. For further information, see the announcement under Political Science 101 in the Departments of Instruction section, page 337.

Application for Degree.—Each senior shall, upon registration, file with the registrar a written application for his degree. Each application shall be checked by the committee on graduation at least six months before the date on which the student expects to be graduated and notice shall be sent to the student by the registrar of the acceptance or rejection of his application. The accepted list shall be submitted at the last regular meeting of the faculty for the quarter in which the checking is done. If approved by the faculty, with or without modification, it shall constitute the list of candidates to be recommended for graduation upon the completion of the work required for their respective degrees. No change shall be made in this list unless ordered by a two-thirds vote of the members of the faculty present. Applicants who are late in filing their applications cannot be assured of recommendation to the faculty, or of consideration of petitions for modification of requirements. In determining

the fitness of a candidate for a degree, his attitude towards his financial obligations shall be taken into consideration.

Two Degrees May Be Conferred.—The degrees of B. A. and M. A.; B. S. and M. S., or two different bachelor's degrees, may be granted at the same time. In all such cases a minimum of fifteen quarters shall have been occupied in the work for two degrees.

IX. GENERAL REGULATIONS

Examinations.—Examinations shall be held at the close of each quarter in all courses at the last scheduled class-hour of the quarter, and also at the next preceding class hour, if desired; except in laboratory courses, when the last laboratory period may be used as a substitute or in addition. A student desiring to be absent from his scheduled examinations must before leaving college, present to the instructors concerned permission from his dean to be absent. The postponed examination may be taken under the following conditions:

1. The student shall pay a fee of \$1 at the comptroller's office and get a receipt for same;
2. The student shall present this receipt to the registrar, who shall issue a card entitling the student to the examination;
3. The student shall present this card to the instructor concerned and shall take the delayed examination at a time approved by the instructor. No instructor need give more than one special examination in any one subject in any quarter.

Advanced Credit by Examination.—With the approval of the instructor concerned, a student may be examined for advanced credit in work that he has not followed in a college class at the University. Credits and grades so obtained must be certified by the examiner and the registrar, and shall not be given for work done while the student is in residence. A student desiring to take an examination for advanced credit must first file an application and obtain a permit at the registrar's office. Special claims for advanced credit based on credentials are passed on by a committee consisting of the registrar and the dean of the college concerned.

Withdrawal from Courses.—Withdrawal is the voluntary severance by a student of his connection with a course or with the University and is indicated on the registrar's books by a "W." During the first four weeks of a quarter a student may withdraw from a course and be given a "W" with the written consent of his dean and his instructor. If he desires to withdraw at a later period, he may do so, but if his work has not been satisfactory he shall be given an "E" instead of a "W". If a withdrawal in either case will reduce the student's hours below 12, it must be approved by his dean. A student who drops a course without withdrawing shall be given an "E" in the course.

Incompletes.—An incomplete is given only in case the student has been in attendance and done satisfactory work to within two weeks of the close of the quarter. The two-week limit may be extended to three weeks in those cases in which a student has obtained a regular leave of absence from his dean. (This extension of time shall not apply to one-term summer courses). An incomplete in a course is convertible into a passing grade only during the next quarter in which the student is in residence, and provided the work of the course shall have been completed in a satisfactory manner. In special and rare cases removal of an incomplete may be deferred by the dean.

Hyphenated Courses.—In these courses the examination on the work of the first quarter is provisional, final credit not being given until the examination for the entire course has been passed. Except in rare cases, the completion of the work of an earlier division of hyphenated courses is prerequisite to the later sections. In the "Departments of Instruction" such courses are indicated by course numbers connected by hyphens.

Leave of Absence.—A leave of absence from the University involving excuses from classes, may be granted by the dean concerned except as hereinafter provided:

1. Leaves of absence on account of sickness shall be granted by the University health service, and shall be taken personally to the instructors concerned. Students absent on account of sickness shall not be re-admitted to classes without this written excuse. The University health service shall file a copy of these leaves of absence with the registrar.
2. Leaves of absence from one class period with the exception of cases included in (1) may be granted by instructors.
3. Leaves of absence from the University for recognized student activities (athletics, music, debate, etc.) shall be passed on by the dean of men and the dean of women respectively.

Departments of Instruction.—All courses of study offered in the University are listed and briefly described in the Departments of Instruction section, page 229. This is also published as a separate bulletin. The student is referred to it for all information in regard to courses.

X. PRE-JOURNALISM CURRICULUM

Admission.—Students entering the School of Journalism by way of the College of Liberal Arts must complete 90 scholastic credits, including the lower division requirements of the college, together with the required ten credits in military science or physical education.

Adviser.—From the beginning of the freshman year, the adviser for pre-journalism students is the dean of the School of Journalism, or such persons as he may designate.

Requirements.—The courses with a double dagger listed below are those required of pre-journalism students during the first two years. Those marked with a single dagger are regarded as essential. Others are suggested electives. These courses are arranged in the order in which they should normally follow each other.

FIRST YEAR¹

<i>Credits</i>	<i>Credits</i>
Arch. 3. Appreciation..... 2	Jour. 1. Jour. as a Profession..... 1
Econ. 1. †Gen. Econ..... 5	Liberal Arts 1. †Intro. to Mod. Thought 5
15. †Typewriting..... 0	†Mil. Sci. or Phys. Ed..... 5
English 1. †Comp..... 5	Pol. Sci. 1. †Comparative Gov't..... 5
64, 65, 66. †Lit. Backgrounds..... 9	Science..... 15
Hist. 5-6. Eng. Pol. & Soc. Hist..... 10	Soc. 1. †Intro. Soc..... 5

¹ If a student has not had in high school the sciences prescribed for junior standing in Liberal Arts, he is required to take ten hours of chemistry or physics and ten hours of botany or geology or zoology in the University. Students entering without foreign language are required to take twenty hours of a foreign language in the University without credit.

SECOND YEAR

<i>Credits</i>		<i>Credits</i>	
Arch. 112, 113. Freehand Drawing....	4	Jour. 51. †News Writing.....	5
Econ. 108. Money and Banking.....	5	61. †Community Newspaper.....	3
59. Graph. & Tab. Anal. of Bus....	5	†Mil. Sci. or Phys. Ed.....	5
61. Soc. & Econ. Stan'ds of Liv....	5	Music 18. Appreciation.....	5
62. Econ. Accounting.....	10	6. Hist. of Music.....	5
106. Econ. of Markets.....	5	Latin 11. †Roman Civ. ²	5
18, 19. †Shorthand I and II.....	0	Phil. 5. †Intro. to Logic ³	5
English 67, 68, 69. †Great Amer. Writers	6	Psychology 1. †Gen. Psychology.....	5
For. Lang.	10	Science	15
Greek 11. †Greek Civ. ²	5	Sociology 56. Family Life.....	3
Hist. 57-58-59. †Hist. of the U.S....	9	57. Child Welfare	3
71-72-73. Ancient Hist.....	9	62. Play & Leisure Time.....	3
		63. Community Organization	5

XI. PRE-LAW CURRICULUM.—TWO-YEAR COURSE

Admission.—To be admitted from the College of Liberal Arts to regular standing in the Law School students who are candidates for the LL. B. degree only, must have earned 90 credits and have completed the requirements of the lower division prescribed for the College of Liberal Arts on page 91.

Transfer Students.—Students who transfer from other institutions with advanced standing, but who have had less than two full years of liberal arts credit in their respective institutions, and who are not entitled to 90 liberal arts credits in accordance with the credit computation system of this University, nor have completed the requirements of the lower division of the College of Liberal Arts of this University, or their equivalent, must satisfy all of the local requirements before they will be admitted to the Law School. Students who transfer from other institutions with advanced standing, and who have had at least two full years of liberal arts credit in their respective institutions and are entitled to 90 liberal arts credits, more or less, in accordance with the credit computation system of this University, but who have not completed the requirements of the lower division of the College of Liberal Arts of this University, or their equivalent, may be held to earn such additional liberal arts credits as the dean of the Law School may impose as a condition for entrance to, or graduation from, the Law School. The object of this provision is, with proper regard for comity between institutions of higher learning, to bring about a fair and reasonable leveling between the preliminary training offered by students from this University and that offered by students from other institutions.

Required Courses.—It is of first importance that in general the required courses, when available, should be those first registered for. By this means a student will more easily avoid conflicts which, later on, may preclude him from completing the required courses in his two or three year pre-law curriculum.

English Recommendation.—Pre-Law students are urged to take additional courses in English, especially advanced composition courses, to fit them for the correct writing and speaking of English, which is increasingly demanded of the legal profession.

Autumn Quarter Entrance.—The Law School curriculum contemplates entrance in the autumn quarter, and the student enters advantageously only at this time. This is of such importance that in cases where there are only a few deficiencies, they should, if possible, be removed during the intervening summer quarter, or through the Extension Service.

² Students who have taken, or who plan to take, three or more years of ancient language, may omit this requirement. Greek 13 or Latin 13 may be substituted respectively for Greek 11 or Latin 11.

³ Philosophy 1 or Philosophy 3 may be substituted for this requirement.

Adviser.—From the beginning of the freshman year the adviser for pre-law students is the Dean of the School of Law, or such persons as he may designate.

Electives.—The requirements of the lower division will not make a total of 90 credits. In choosing electives, the student is advised not to specialize in any particular subject or group, but rather to take one or two courses in each or several of the various groups. For a broad general training, the following are recommended:

Anthropology 51	Political Science 119, 120
Astronomy 1	Sociology 1
Liberal Arts 1, 11	English 38, 40
Latin 1-2, 3, 4, 5, 6	English 51, 52, 53
B. A. 65	English 54, 55, 56
B. A. 15, 16	English 64, 65, 66
B. A. 1, 2	English 73, 74, 75
Political Science 1	History 105, 106, 107
Political Science 118	History 108, 109, 110

XII. PRE-LAW CURRICULUM—THREE-YEAR COURSE

Combined Six-Year Arts-Law Course.—It is possible to obtain the degrees of bachelor of arts and bachelor of laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the two-year pre-law course, with the additions hereafter stated. To have the benefit of this combined course, students must maintain a uniformly good record and must, in the first three years, earn 144 liberal arts credits, together with the ten credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Service if necessary. At the beginning of the fourth year, if a student has earned 144 credits, and ten credits of required military science or physical education, he may enter the School of Law, and there earn 36 credits which will be counted toward his bachelor of arts degree. He will be granted the bachelor of arts degree at the end of the fourth year, or as soon as he completes the required work above specified and 36 credits in the School of Law, with a uniformly good record thus making a total of 190 credits for graduation in liberal arts. The degree of bachelor of laws will be conferred upon completion of his work in the Law School.

In exceptional cases where the student lacks the 144 liberal arts or science credits, the Dean of the Law School may, upon written petition, permit registration in the law school, the necessary credits to satisfy the combined degree to be completed subsequently.

Selection of Major.—In the 144 credits must be included a major of at least 36 credits, together with all the requirements of the lower division. At least one-half of the credits in the major must be earned in upper division courses. The major must be selected by the students taking the combined six-year course upon acquiring junior standing (which is usually at the commencement of their third year of liberal arts study), pursuant to the regulations relating to majors prescribed for the College of Liberal Arts on page 93. Any of the majors there enumerated may be profitably pursued by pre-law students.

Transfer Law Students.—Students from other institutions entering this University with advanced standing may take advantage of this combined six-year course, provided they are registered in the College of Liberal Arts for at least one full year of work, and earn at least 45 credits in the University before entering the School of Law. This privilege will not be extended to normal school graduates attempting to graduate in two years, nor to undergraduates of other colleges who enter this University with the rank of senior.

Upper Division Courses.—As one of the requirements for the B. A. degree is 60 credits earned in upper division courses, and as the 36 credits of Law which in the combined arts-law course may be counted towards this degree, are all upper division credits, it follows that at least 24 of the 144 referred to must also be in upper division courses.

XIII. PRE-LIBRARY CURRICULUM

Admission.—1. To graduate students who hold the baccalaureate degree from any college or university of good standing, whose undergraduate work in either or both high school and college has included at least twenty college credits each in German and French. Other modern languages may be substituted with the consent of the dean.

2. To students who have qualified for senior standing in the College of Liberal Arts or in the elective curricula in the College of Science, having earned 145 credits, including twenty college credits each in German and French, and ten credits in Military Science, or Physical Education, and including all required work. However, students who lack not more than fifteen credits of senior standing (including the languages required above) may be admitted with permission of the dean, but such students must complete the 180 plus 10 hours required for graduation.

Initial admission to classes in the Library School is permitted only at the beginning of the college year in October except by special permission of the Dean of the Library School. No one may be admitted to any course in the Library School curriculum except as an auditor, unless he is expecting to complete the entire curriculum.

Adviser.—From the beginning of the freshman year, the adviser for pre-library students is the Dean of the Library School, or such persons as he may designate.

Scholarship.—Students doing an inferior grade of work will be advised to discontinue work in the Library School. Grades below an average of B minus or C plus are too low.

Requirements.—A suggested curriculum for pre-library students is given below. The courses are arranged in the order in which they should normally follow each other. Those with a double dagger are required; those with a single dagger are strongly recommended; others are suggested electives.

FIRST YEAR

Credits	Credits
English †1-2. Composition, unless exempted by examination.....10	Music 13. Appreciation..... 5
70,71,72. Shakespeare 9	‡Mod. Lang. †French or German.....15
64,65,66. Lit. Backgrounds..... 9	Psychology 1. †General..... 5
‡History 1-2. Medieval and Modern.....10	Lib. Arts 1. Intro. to Mod. Thought.. 5
5-8. Eng. Pol. and Social.....10	Arch. 3. Appreciation..... 2
‡Science, Bot., Geol. or Zool.....10	‡Latin †11, 13. Rom. Civ. and Lit....10

† These requirements may be satisfied in high school or in college.

‡ The Library School requires twenty hours each of French and German in either high school or college.

‡ Students who have taken, or plan to take three or more years of ancient language may omit this requirement. Classical language requirement may be satisfied by either Latin or Greek.

SECOND YEAR

<i>Oredits</i>		<i>Oredits</i>	
¹ Mod. Lang. †Fourth yr. of foreign language previously taken.....	5	¹ Pol. Sci. †1. Comparative Gov't.....	5
Begin other lang. required by Library School	10	² Sociology †1. Introduction.....	5
² History †57-58-59. United States.....	9	62. Play and Leisure Time.....	3
⁴ Greek †15-16. Civilization	10	¹ Econ. †1. Introduction	5
Anthropology 51. Evol. of Civ.....	5	7. Geog. Background of Industry... 5	5
Zoology 16. Evolution.....	2	61. Social and Econ. Standards.... 5	5
17. Eugenics	2	Lib. Arts. †11. Intro. to Fine Arts... 5	5
		⁴ Oriental Studies 50,51,52. Orient. Lit.10	10

THIRD YEAR

<i>Oredits</i>		<i>Oredits</i>	
¹ Mod. Lang. Complete Library School Requirement	10	120. Prob. Eastern Asia and Pac... 5	5
Phil. †1, 2 or 3. Introduction.....	5	English †134. Reformation in Eng... 3	3
History 125. Turkey and Near East... 5	5	†137. 19th Cent. Prose.....	3
†130. Europe, 1814-1870	5	†164,165,166. Am. Lit. from 1870.. 9	9
†131. Europe Since 1870.....	5	174,175. 19th Cent. Poetry.....	6
Pol. Sci. 122. Foreign Affairs	3	² Sci. Phys. 1-2 or Chem. 1-2.....	10
123. Intern. Relations	3	German 106,108. Ger. Lit. in Tr.... 5	5
156. European Gov. & Pol. Insta... 5	5	Rom. Lang. 118,119,120. Survey Fr. Lit.	9
161,162,163. Governments	15	†181,182,184. Ital. Lit. in Tr..... 6	6
†101. Constitutional Gov. in U.S. and Washington	2	Scand. Lit. 109,110,111. Mod. Auth... 3	3
Oriental Studies 114,115,116. Hist. of Religion	9	180,181,182. Recent Lit.....	6

Graduation.—The degree of bachelor of science in library science is granted upon satisfactory completion of 45 credits in the Library School.

XIV. PRE-EDUCATION CURRICULUM

Admission.—Pre-education students must fulfill all the lower division requirements of the College of Liberal Arts, (see page 91) and it is urged that those requirements be worked off as soon as possible.

Adviser.—From the beginning of the freshman year, the adviser for pre-education students is the Dean of the School of Education, or such persons as he may designate. The needs of public high school teachers may be roughly classified into the following four groups. The first two of these groups the purposeful student may confidently begin to meet in the freshman and sophomore years by supplementing the Liberal Arts requirements. The third and fourth groups are in the main open to juniors and seniors only.

1. *General Preparation.*—High school teachers should have a broad acquaintance with those liberalizing studies that give (1) knowledge of, and (2) appreciative insight into the nature, evolution, achievements, and problems of civilization, and especially with regard to their own society. Both the highest usefulness of the teacher and his satisfaction in his work are affected heavily by the breadth and the quality of his general education.

Breadth of education, however, is still compatible with an early intentional focusing which will give to scholarship a certain weight of close relevancy to the peculiar responsibilities of the teacher. Within the

¹ This requirement may be satisfied by the first course in each of two of these (Econ., Soc., or Pol. Sci.), or the first course in any one of them together with five credits in another course for which the one taken first is a prerequisite.

limits set by the academic organization of the departments and colleges, which in a University must attempt both to make scholars and to contribute to the special ends of professional schools, it is still possible for the prospective teacher to make choice of courses which will enhance his pleasures in his work and his value to his students. Among the courses now open to freshmen and sophomores, the following are suggested as having large potential bearing on the making of a teacher:

FIRST YEAR					
<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Political Science 1.....	5	History 6	5	Psychology 1	5
History 5	5	English 65	3	English 66	3
English 64	3	Liberal Arts 1.....	5	Zoology 17	2
Zoology 16	2	Geology 1a, 1b.....	5	Geology 2	5
		Sociology 1	5	English 40	5
SECOND YEAR					
History 57	3	History 58	3	History 59	3
		Anthropology 51	5	Education 101	5
				Political Science 68.....	3
		Philosophy 2	5 or	Philosophy 3	5

2. *Preparation in Teaching Subjects.*—The teacher must have the firm grasp of the subjects in which he is to give instruction that will insure him an easy mind and set him free to study the difficulties met by beginners in his field of knowledge. Beyond this it is desirable for him to have courses that will set his subject in its social or cultural context, showing in general how his field has grown and what its development has meant to civilization; and whenever possible to sample the more closely related fields.

The rounding out of a teacher's education usually has to be left to graduate study, however. In the beginning each prospective teacher should prepare to give instruction in at least two subjects. It is impossible to give sound preparation for more; and results are better when these two subjects reinforce each other; as physics and chemistry, English and Latin, Latin and French or Spanish, history and political science or sociology.

However, the demands of superintendents are often not determined with reference to recognized principles of the professional education of teachers so much as by the exigencies of a chance need in their own system. Hence they may call for such combinations as home economics and English; manual training and physical education; mathematics and Latin; physical education and history; chemistry, physics and biology.

In general, however, such combinations as mathematics and physical sciences, English and history, physical science and biology, home economics and general science, Latin and French or Spanish, Latin and English, English and history, art and music seem to be the most feasible.

Last year there seemed to be an oversupply in English, in history and in the social sciences; an undersupply in commercial branches, and a general shortage of teachers who could combine with some firmly established subject some form of extra-curricular activity, such as coaching, for example.

Finally, "a poor or unpleasing, or unattractive personality" is about as common a difficulty as "insufficient special scholarship." Teachers must be in the group of human beings who are better than average in personality.

3. *Professional Preparation.*—The courses offered in the School of Education are intended to give the prospective teacher the training which he will need in professional subjects.

The specific requirements for the normal diploma, which is a requirement for all high school teachers in the state of Washington, and to

which all students in any college are eligible are: Education 101 or Education 102 (open to sophomores who have earned 65 hours), Education 119, 140, 145, and 160.

Students anticipating high school teaching are urged to take Education 101 or Education 102 as sophomores if they have earned 65 credits in college courses. It is a prerequisite to all other courses in education for all students except college graduates and students entering from normal school. Courses 119 and 140 should be taken during the junior year. These courses are prerequisite to Education 145 (practice teaching) which should be planned for the autumn or winter terms of the senior year. Placements for the spring term in the city schools are limited. The School of Education bulletin should be consulted for complete details concerning requirements for the normal diploma and for the proper arrangement of education courses to meet those requirements adequately.

4. *Supplementary Professional Preparation.*—Here fall courses offered chiefly in the School of Education and the department of psychology, but supplemented, usefully at points, by courses available in the departments of bacteriology, sociology, zoology and home economics.

COURSES OF STUDY

For description of courses see Departments of Instruction section.

COLLEGE OF SCIENCE

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern).....*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Landes, Henry, A.M. (Harvard)....*Professor of Geology; Dean of the College of Science*
Benson, Henry Kreitzer, Ph.D. (Columbia).....*Professor of Industrial Chemistry*
Carpenter, Allen Fuller, Ph.D. (Chicago).....*Professor of Mathematics*
Dehn, William Maurice, Ph.D. (Illinois).....*Professor of Organic Chemistry*
Frye, Theodore Christian, Ph.D. (Chicago).....*Professor of Botany*
Guthrie, Edwin R., Ph.D. (Pennsylvania).....*Professor of Psychology*
Hall, David Connolly, Sc.M., M.D. (Rush Medical College)....*Professor of Hygiene and University Health Officer*
Kincaid, Trevor, A.M. (Washington).....*Professor of Zoology*
Matthews, Colonel Harry T., C.A.C. (U.S. Military Academy).....*Professor of Military Science and Tactics*
Moritz, Robert Edouard, Ph.D., (Nebraska), Ph.N.D. (Strassburg).....*Professor of Mathematics*
Olding, James Perdue, Commander, U.S.N.....*Professor of Naval Science*
Osborn, Frederick Arthur, Ph.D. (Michigan).....*Professor of Physics*
Raitt, Effie Isabel, A.M. (Columbia).....*Professor of Home Economics*
Rigg, George Burton, Ph.D. (Chicago).....*Professor of Botany*
Smith, George McPhail, Ph.D. (Freiburg).....*Professor of Inorganic Chemistry*
Smith, Stevenson, Ph.D. (Pennsylvania).....*Professor of Psychology*
Tartar, Herman Vance, Ph.D. (Chicago).....*Professor of Chemistry*
Weaver, Charles Edwin, Ph.D. (California).....*Professor of Geology*
Weinzirl, John, Dr.P.H. (Harvard).....*Professor of Bacteriology*
Winger, Roy Martin, Ph.D. (Johns Hopkins).....*Professor of Mathematics*
Worcester, John Locke, M.D. (Medical School University of Alabama).....*Professor of Anatomy*

ASSOCIATE PROFESSORS

¹Anderson, Samuel Herbert, Ph.D. (Illinois).....*Associate Professor of Physics*
Arbuthnot, James George, B.S. (Kansas State College).....*Associate Professor of Physical Education for Men*
Brakel, Henry Louis, Ph.D. (Cornell).....*Associate Professor of Engineering Physics*
Denny, Grace Goldena, M.A. (Columbia).....*Associate Professor of Home Economics*
Esper, Erwin A., Ph.D. (Ohio State University).....*Associate Professor of Psychology*
Gavett, George Irving, B.S.(C.E.) (Michigan).....*Associate Professor of Mathematics*
Goodspeed, George Edward, B.S.(Min.E.) (Massachusetts Institute of Technology).....*Associate Professor of Geology*
Gross, Mary Emma, A.M. (Columbia).....*Associate Professor of Physical Education for Women*
¹Guberlet, John Earl, Ph.D. (Illinois).....*Associate Professor of Zoology*
Hotson, John William, Ph.D. (Harvard).....*Associate Professor of Botany*
McCurdy, W. H., Ph.D. (Princeton).....*Associate Professor of Physics*
Renner, George T., Ph.D. (Columbia).....*Associate Professor of Geology*
Smith, Eli Victor, Ph.D. (Northwestern).....*Associate Professor of Zoology*
Thompson, Thomas Gordon, Ph.D. (Washington).....*Associate Professor of Chemistry*

ASSISTANT PROFESSORS

Adair, Hugh D., Captain, Infantry (Grad., Wentworth Military Academy).....*Assistant Professor of Military Science and Tactics*
Ballantine, John Perry, Ph.D. (Chicago).....*Assistant Professor of Mathematics*
Barr, Eric Lloyd, Lieutenant Commander, U.S.N.....*Assistant Professor of Naval Science*
Bliss, Addle Jeanette, A.M. (Columbia).....*Assistant Professor of Home Economics*
¹Dresslar, Martha, M.S. (Columbia).....*Assistant Professor of Home Economics*
DeVries, Mary Aid, A.B. (Wisconsin).....*Assistant Professor of Physical Education*
Foster, Henry M., A.M. (Columbia)....*Assistant Professor of Physical Education for Men*

¹Absent on leave.

- Greene, Royal Kemp, Major, C.A.C. (Grad. U.S. Military Academy).....Assistant Professor of *Military Science and Tactics*
- Hatch, Melville H., Ph.D. (Michigan).....Assistant Professor of Zoology
- Hoffstadt, Rachel Emille, D.Sc. (Johns Hopkins).....Assistant Professor of Bacteriology
- McFarlan, Lee H., Ph.D. (Missouri).....Assistant Professor of Mathematics
- McGownd, Matilda Jane, A.M. (Columbia).....Assistant Professor of Physical Education
- Meredith, Evan K., Captain of Infantry.....Assistant Professor of *Military Science and Tactics*
- Miller, Robert Cunningham, Ph.D. (California).....Assistant Professor of Zoology
- Muhlenberg, Henry C. K., Major, Air Service (Grad. U.S. Military Academy).....Assistant Professor of *Military Science and Tactics*
- Mullemeister, Hermance, Ph.D. (Royal University of Utrecht, Holland)..Associate Professor of *Mathematics*
- Nelkirk, Lewis Irving, Ph.D. (Pennsylvania).....Assistant Professor of *Mathematics*
- Payne, Blanche, A.M. (Columbia).....Assistant Professor of Home Economics
- Powell, Sargent G., Ph.D. (Illinois).....Assistant Professor of Chemistry
- Rice, Paul Hildreth, Lieutenant Commander, U.S.N. (U.S. Naval Academy).....Assistant Professor of *Naval Science and Tactics*
- Rivers, Elizabeth, M.A. (Columbia).....Assistant Professor of Home Economics
- *Rowntree, Jennie Irene, M.S. (Chicago).....Assistant Professor of Home Economics
- Schrader, Otto Harry, Major, C.A.C., B.S.(E.E.) (Purdue).....Assistant Professor of *Military Science and Tactics*
- Utterback, Clinton L., Ph.D. (Wisconsin).....Assistant Professor of Physics
- Williams, Laurin L., Captain of Infantry, A.B. (Yale).....Assistant Professor of *Military Science and Tactics*
- Zanstra, Herman, Ph.D. (Minnesota)...Assistant Professor of *Astronomy and Mathematics*

LECTURERS

- Burdon, Minnie Bell, M.D. (Oregon).....Lecturer on *Hygiene*
- Magnusson, Gustaf Alfred, M.D. (Minnesota).....Lecturer on *Onto Diagnosis*

INSTRUCTORS

- Cramlet, Clyde Myron, Ph.D. (Washington).....Instructor in *Mathematics*
- Gundlach, Ralph Harrelson, M.A. (Washington).....Instructor in *Psychology*
- Hildebrand, Christian, First Lieutenant, Infantry (U.S. Military Academy)....Instructor in *Military Science and Tactics*
- Jerbert, Arthur Rudolph, Ph.D. (Washington).....Instructor in *Mathematics*
- Luce, Dean, First Lieutenant, C.A.C.....Instructor in *Military Science and Tactics*
- Mentzer, Phoebe E., M.S. (Iowa State College).....Instructor in *Zoology*
- Sivertz, Victorian, Ph.D. (McGill).....Instructor in *Chemistry*

ASSOCIATES

- Bagshaw, Enoch, B.S.(M.E.) (Washington).....Associate in *Physical Education*
- Edmundson, Clarence, B.S. (Idaho).....Associate in *Physical Education*
- Gerdeman, Alice E., B.A. (Central Wesleyan).....Associate in *Bacteriology*
- Goodsell, Julia, B.S. (Washington).....Associate in *Geology*
- Graves, Dorsett (Missouri).....Associate in *Physical Education*
- Helmich, Leone, B.S. (Washington).....Associate in *Physical Education*
- Jackson, Kirby E., M.S. (Vanderbilt University).....Associate in *Chemistry*
- Marick, Louis, M.S. (Washington).....Associate in *Physics*
- Martin, Marion Marguerite, B.S. (Columbia).....Associate in *Physical Education*
- Radford, Ethel Sanderson, A.B. (McGill).....Associate in *Chemistry*
- Soule, Elizabeth S., R.N. (Malden, Massachusetts, Hospital School of Nursing and Public Health), A.B. (Washington)..Associate in *Nursing Education and Public Health*
- Seeman, Albert L., M.B.A. (Northwestern).....Associate in *Geology*
- Sutton, Wayne, A.B. (Washington).....Associate in *Physical Education*

GENERAL INFORMATION

The student entering the College of Science may take up one of several curricula, general or specialized, with emphasis on pure or applied sciences. These curricula, as set forth in detail in succeeding pages, are:

- I. Elective curricula, for students desiring general training in science, leading to the degree of bachelor of science.
- II. Required curricula, for students desiring to specialize in one department, or to obtain professional training, leading to the degree of bachelor of science, in one of the following subjects:

A. Bacteriology	E. Mathematics
B. Biology	F. Military Science
C. Chemistry	G. Naval Science
D. Geology	H. Physics
- III. Required curricula in group majors leading to the degree of bachelor of science:
 - A. For prospective teachers
 - B. Combined Science and Law
 - C. Library Science
 - D. Pre-Library
- IV. Prescribed curricula in vocational subjects:

A. Home Economics	C. Physical Education for Men
B. Nursing Education	D. Physical Education for Women
	E. Pre-medical
- V. One-year course leading to certificate in Public Health Nursing.
- VI. Pre-Landscape Gardening curriculum.

LABORATORIES

The University of Washington has laboratories fully equipped for work in anatomy, astronomy, botany, chemistry, (including separate laboratories devoted to general chemistry, analytical chemistry, food inspection and analysis, physiological, industrial and pharmaceutical chemistry), geology, psychology, physics and zoology.

The Bureau of Testing of the department of physics is being rapidly equipped to meet the demand for accurate calibration and testing of scientific instruments. Standards of the bureau will be calibrated by the National Bureau of Standards at Washington, D.C. The bureau is prepared to calibrate direct and alternating current instruments, determine candle power of lamps, measure temperature, both high and low, and, to a limited extent, to standardize weights. Persons desiring to have work done should address the director, Frederick A. Osborn.

APPLICATION FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

Special Requirements of the College of Science.—In addition to three units of English and two units of mathematics required of all students for admission to the University, two units of a foreign language are required for admission to the College of Science. The student expecting to enter this college is advised to take as many as possible of the subjects specified on a succeeding page among "Subjects required either in a secondary school or in the University," careful observance of which will furnish a more complete preparation for college work, and give correspondingly greater freedom of election in college.

CURRICULA

I. ELECTIVE CURRICULA

The student selecting these curricula must choose one department of the College of Science, in which he proposes to do the preponderance of his work. This department will be known as his major department and the subject as his major subject. If possible, the student should choose his major subject at the time of entrance.

To secure the degree of bachelor of science in this division of the college, a student must earn 190 credits, observing the restrictions in regard to a major subject, scholarship requirements, and electives in other colleges.

A. REQUIREMENTS IN A MAJOR SUBJECT

A student must earn not less than 36 nor more than 60 credits in his major department. Not more than 96 credits will be accepted in the major and any other one department.

B. DISTRIBUTION OF REQUIRED WORK

At least 60 of the scholastic credits presented for the degree of bachelor of science must be in the courses numbered above 100, and 18 such credits must be in the major subject. Requirements for graduation are as follows:

1. *Subjects in Secondary Schools:*

- (a) English, three years.
- (b) Elementary algebra, one year.
- (c) Plane geometry, one year.
- †(d) One foreign language, two years.

2. *Subjects Required Either in Secondary School or in the University:*

- (e) United States history and civics, one year in high school or ten credits in the University.
- (f) History in addition to (e), one year or ten credits.
- (g) Mathematics, geology*, or astronomy, one year or ten credits.
- (h) Chemistry, one year or ten credits.

† If a student has not taken in high school the amount of foreign language required for admission to the college that he plans to enter, he must make up the deficiency in the University as part of his regular schedule of work, but without receiving college credit for it. For the College of Science, the foreign language requirement may be satisfied by two units, or 20 credits, in any one foreign language.

* Physiography (with laboratory work) taken in a high school will be accepted instead of geology.

- (i) Physics, one year or ten credits.
- (j) Botany or zoology, one year or ten credits.
- (k) The student must obtain a certificate of proficiency in English from the department of English, or must earn 10 credits in English composition in the University.

3. Subjects Required in the University:

- (l) Physical education, or military science, two years.
- (m) Economics, history, language and literature, philosophy, political science, psychology, sociology, 20 credits, but only ten credits will be counted in any one of these subjects.

C. ELECTIVES

Students selecting these curricula may complete their courses with electives from any school or college of the University. Electives in engineering, fine arts, fisheries, forestry, law, mines, and pharmacy, must not exceed 36 credits in all, and must not exceed 25 credits from any one of these colleges.

II. CURRICULA IN THE VARIOUS DEPARTMENTS

A minimum of 190 credits is required for graduation from any of these curricula.

A. BACTERIOLOGY

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2 or electives..	5	Psychology 1	5
Chemistry 1 or 21.....	5	Chemistry 2 or 22	5	Chemistry 23	5
Zoology 1 or 3.....	5	Zoology 2 or 4.....	5	Sociology 1	5
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Bacteriology 101	5	Bacteriology 102	5	Bacteriology 103	5
Chemistry 131	5	Chemistry 132	5	Chemistry 111	5
Anatomy 105	6	Anatomy 106 or 102....	6	Anatomy 107 or 108....	6
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½

THIRD YEAR

Bacteriology 105	5	Bacteriology 106	5	Bacteriology 104	5
Physics 1	5	Physics 2	5	Physics 3	5
Electives	5	Electives	5	Electives	5

FOURTH YEAR

Bacteriology 120	5	Bacteriology 121	5	Bacteriology 122	5
Electives	10	Electives	8	Electives	10
		Pol. Sci. 101.....	2		

B. BIOLOGICAL SCIENCES

In this curriculum the student must select a major in anatomy, botany, or zoology. On selecting his major subject, the student should at once consult his major department, a member of which will act as his adviser. The adviser will plan a special curriculum for the student, fitting him for his

Curricula

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chosen work. This curriculum must be submitted to the dean of the College of Science for approval. Thereafter the individual curriculum can be changed only with consent of the adviser and the dean.

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2 or Electives..	5	Mathematics or Elective.	5
Botany or Zoology.....	5	Botany or Zoology.....	5	Electives	10
Electives	5	**Mathematics or Elect.	5	Mil. Sci. or Phys. Ed..	1%
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%		

SECOND YEAR

Chemistry or Physics... 5	Chemistry or Physics... 5	Major	5
Major	Major	Electives	10
Electives	Electives	Mil. Sci. or Phys. Ed..	1%
Mil. Sci. or Phys. Ed..	Mil. Sci. or Phys. Ed..		

THIRD YEAR

Major	5	Major	5	Major	5
Soc., Pol. Sci. or Econ..	5	Soc., Pol. Sci. or Econ..	5	Electives	10
Electives	5	Electives	5		

FOURTH YEAR

Major	5	Major	5	Electives	13
Electives	10	Electives	10	Pol. Sci. 101.....	2

C. CHEMISTRY

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23	5
Mathematics 4	5	Mathematics 5	5	Mathematics 6	5
English 1	5	English 2 or ¹ Electives.	5	¹ Electives	5
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%

- ¹Options
- (a) Geology or Mineralogy
 - (b) Mechanical Drawing.
 - (c) Biological Science.

SECOND YEAR

Chemistry 109	5	Chemistry 110	5	Chemistry 101	5
Physics 1 or 97.....	5	Physics 2 or 98.....	5	Physics 3 or 99.....	5
Mathematics 61	3	Mathematics 62	3	² Electives	5
Electives	2	Electives	2	Mil. Sci. or Phys. Ed..	1%
Mil. Sci. or Phys. Ed..	1%	Mil. Sci. or Phys. Ed..	1%		

THIRD YEAR

Chemistry 131	5	Chemistry 132	5	Chemistry 133	5
⁵ Electives	5	⁵ Electives	5	⁵ Electives	5
Group Options		Group Options		Group Options	
(a) General—		(a) General—		(a) General—	
⁴ Electives	5	⁴ Electives	5	⁴ Electives	5
(b) Industrial—		(b) Industrial—		(b) Industrial—	
Chemistry 121	5	Chemistry 122	5	Chemistry 123	5
(c) Biochemical—		(c) Biochemical—		(c) Biochemical—	
Physiology 151 or		Physiology 152 or		Physiology 153 or	
Bacteriology 101 ..	5	Bacteriology 102 ..	5	Bacteriology 103 ..	5

** Two and one-half years of mathematics required, which may be taken in high school or University.

² Students expecting to elect the industrial group in junior year must take Chemistry 52 the spring quarter of the sophomore year.

³ In addition to the subjects specifically listed above, 10 credits in either French or German are required. to be completed before the end of the third year.

⁴ The History of Chemistry, Chem. 190 and 191, are suggested as electives in either the junior or senior year.

FOURTH YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Chemistry 181	5	Chemistry 182	5	Chemistry 183	5
Electives	2	Electives	2		
Group Options					
(a) General—		(a) General—		(a) General—	
Electives	8	Electives	8	Electives	8
(b) Industrial—		(b) Industrial—		(b) Industrial—	
Chem. Eng. 171... 5		Chem. Eng. 172... 5		Electives	8
Chem. Eng. 176... 3		Chem. Eng. 177... 3		Pol. Sci. 101..... 2	
(c) Biochemical—		(c) Biochemical—		(b) Industrial—	
Chemistry 161 5		Chemistry 162 5		Electives	8
Chemistry 165 3		Chemistry 164 3		Pol. Sci. 101..... 2	
				(c) Biochemical—	
				Chemistry 163 3	
				Electives	5
				Pol. Sci. 101 2	

D. GEOLOGY

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Chem. 1 or 21..... 5		Chem. 2 or 22..... 5		Chem. 23	5
Geol. 1a & 1b..... 5		Geology 2	5	English 1	5
Math. 4 or 51..... 5 or 4		Math. 5 or 52..... 5 or 4		Math. 6 or 53..... 5 or 4	
Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%	

SECOND YEAR

Physics 1	5	Physics 2	5	Elective	5
Geology 21	5	Gen. Eng. 1..... 3		Civil Eng. 54..... 3	
French 1 or German 1. 5		Gen. Eng. 21..... 3		Geology 123	3
Mil. Sci. or Phys. Ed.. 1%		French 2 or German 2. 5		French 3 or German 3. 5	
		Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%	

THIRD YEAR

Geology 124	3	Geology 120	4	Geology 125	5
Bot. or Zool..... 5		Bot. or Zool..... 5		Geology 122	2
Geology 140	3	Geology 131	5	Geology 132	5
Astronomy 1	5	Elective	3	Metallurgy 102	5

FOURTH YEAR

Geology 126	3	Geology 127	5	Geology 128	3
Geology 121	3	Metallurgy 153	3	Metallurgy 160	2
Geology 112	5	Thesis	5	Electives	10
Mining 51	3				

E. MATHEMATICS

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2 or Electives.. 5		History	5
Mathematics 4	5	Mathematics 5	5	Mathematics 6	5
Physics 1	5	Physics 2	5	Modern Foreign Lang... 5	
Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%	

SECOND YEAR

History	5	Economics 1	5	Political Science 1..... 5	
Mathematics 107	5	Mathematics 108	5	Mathematics 109	5
Modern Foreign Lang... 5		Chemistry 1	5	Chemistry 2	5
Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%		Mil. Sci. or Phys. Ed.. 1%	

THIRD YEAR

GROUP I—SECONDARY SCHOOL TEACHERS

Psychology 1	5	Philosophy or Logic... 5		Astronomy 1	5
Biological Science	5	Biological Science	5	Mathematics	2 or 3
Mathematics	2 or 3	Mathematics	2 or 3	Education 101	5
Electives	3 or 2	Electives	3 or 2	Electives	3 or 2

⁴ The History of Chemistry, Chem. 190 and 191 are suggested as electives in either the junior or senior year.

GROUP II—COLLEGE AND UNIVERSITY TEACHERS

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Psychology 1	5	Philosophy or Logic	5	Astronomy	5
Biological Science	5	Biological Science	5	Mathematics	4
Mathematics	5	Mathematics	5	Electives	5

FOURTH YEAR

GROUP I—SECONDARY SCHOOL TEACHERS

Education 140	3	Education 119	3	Education	3
Education 145	5	Electives	10	Electives	3
Electives	7	Pol. Sci. 101	2	Education 160M	3

GROUP II—COLLEGE AND UNIVERSITY TEACHERS

Mathematics	5	Mathematics	5	Mathematics	5
Electives	10	Electives	10	Electives	8
				Pol. Sci. 101	2

F. FOUR-YEAR CURRICULUM IN MILITARY SCIENCE

For students who desire to major in military science the following four-year curriculum has been provided. This will give a good general college education upon which any line of professional or technical study may be based and will give to the graduate the degree of B.S. in Military Science, and at the same time enable him to obtain a commission as second lieutenant in the Officers' Reserve Corps of the United States Army in accordance with the provisions of the National Defense Act.

MILITARY SCIENCE

<i>First Year</i>	<i>Credits</i>	<i>Second Year</i>	<i>Credits</i>
Mil. Sci. 1-2-3, all units	5	Mil. Sci. 51-52-53 Inf.)	
Math. 1 (Algebra)	5	Mil. Sci. 61-62-63 Arty.)	
Math. 2 (Solid Geometry)	5	Mil. Sci. 71-72-73 A.S.)	5
Math. 4 (Plane Trigonometry)	5	Physics 1-2 or 97, 98	10
General Eng. 7 (Eng. Draw.)	3	Chemistry 1-2, or 21-22	10
General Eng. 21 (Plane Surv.)	3	French, German or Spanish	9 or 10
English 1-2	10	History 57-58-59	9
French, German or Spanish 1-2-3	15	English 40	5

Summer Quarter —Basic R. O. T. C. Camp

<i>Third Year</i>	<i>Credits</i>	<i>Fourth Year</i>	<i>Credits</i>
Military Science 104-105-106)		Military Science 154-155-156)	
Military Science 114-115-116)		Military Science 164-165-166)	
Military Science 124-125-126)	9	Military Science 174-175-176)	9
Philosophy 1, 2, 3 or 5	5	Military Science Thesis	5
††Soc., Pol. Sci. or Econ.	10	*Approved Electives	32
*Approved Electives	21		

Summer Quarter (After Third Year)—Advanced R. O. T. C. Camp

Students taking this course will specialize in the military work of one of the three units established here, Infantry, Coast Artillery or Air Service, and receive their Reserve commissions in that branch of the service.

The military department, during the latter part of the second year and prior to the beginning of the third year, will advise the student as to his electives, all of which will be outside the military department. Each case will be handled separately depending on the student's future life. After approval by the professor of military science and tactics, and the dean of the College of Science, the curriculum for the individual student must be followed until graduation.

G. FOUR-YEAR CURRICULUM IN NAVAL SCIENCE

For students who desire to major in Naval Science the following four-year curriculum has been provided. In addition to giving the student a good general education this course will give him the degree of B.S. in Naval Science on graduation and enable him to obtain a commission as Ensign in the United States Naval Reserve.

†† See Pol. Sci. department for requirement of Pol. Sci. 101.

* All electives will be outside the military department.

NAVAL SCIENCE

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Naval Science 1.....	1½	Naval Science 2.....	1½	Naval Science 3.....	1½
Mathematics 51.....	4	Mathematics 52.....	4	Mathematics 2.....	5
English 1.....	5	English 2.....	5	English 40.....	5
French, German, Spanish	5	French, German, Spanish	5	French, German, Spanish	5

SECOND YEAR

Naval Science 51.....	1½	Naval Science 52.....	1½	Naval Science 53.....	1½
Physics 1.....	5	Physics 2.....	5	Physics 3.....	5
History 57.....	3	History 58.....	3	History 59.....	3
French, German, Spanish	3	French, German, Spanish	3	French, German, Spanish	3
Mathematics 101.....	2	Gen. Engr. 7.....	3	Mech. Engr. 82.....	2
Electives.....	2	Electives.....	2	Electives.....	2

Summer Quarter—Basic R.O.T.C. Cruise (Optional).

THIRD YEAR

Naval Science 101.....	3	Naval Science 102.....	3	Naval Science 103.....	3
Pol. Sci. 111.....	3	Pol. Sci. 112.....	3	Pol. Sci. 113.....	3
Phil. 2, 3 or 5.....	5	Physics 154.....	3	Elective.....	10
Elective.....	5	Elective.....	5		

FOURTH YEAR

Naval Science 151.....	3	Naval Science 152.....	3	Naval Science 153.....	3
Mech. Engr. 108.....	3	Elec. Engr. 101-102.....	6	Naval Thesis.....	5
Electives.....	9	Electives.....	6	Mechanical Engr. 179...	3
				Electives.....	5

Summer Quarter—Advanced R.O.T.C. Cruise (Required).*

The student will be advised by the Department of Naval Science in regard to electives.

H. PHYSICS

<i>First Year</i>	<i>Credits</i>	<i>Second Year</i>	<i>Credits</i>
†Physics.....	15	Physics.....	15
Mathematics.....	15	Mathematics.....	15
English.....	10	Biol. Sci., Geol., or Astronomy.....	10
Psychology.....	5	‡Restricted Elective.....	5
Mil. Sci. or Phys. Ed.....	5	Mil. Sci. or Phys. Ed.....	5

<i>Third Year</i>	<i>Credits</i>	<i>Fourth Year</i>	<i>Credits</i>
Physics.....	5	Physics.....	10
Chemistry.....	15	**Advisory Electives.....	15
**Advisory Electives.....	10	Free Electives.....	20
‡Restricted Electives.....	10		
Free Electives.....	5		

III. REQUIRED CURRICULA IN GROUP MAJORS

A. CURRICULUM FOR PROSPECTIVE SCIENCE TEACHERS

The following course of study is provided for prospective teachers who desire a greater range of scientific knowledge, rather than the intensive training secured by following the curriculum of only one department. This outline permits a student to prepare for teaching in more sciences by limiting the number of credits necessary in the departments that he chooses. This curriculum refers particularly to the sciences of botany, chemistry, geology, mathematics, physics, and zoology, and selections may be made according to the regulations below.

* One advanced cruise, preferably at the end of the third year, will be required of all students. Week-end cruises are offered once a month.

† If the student has had high school chemistry he is advised to take physics in his freshman year.

‡ Restricted electives include work in history, economics, language, philosophy, political science, and sociology.

** Advisory electives must be approved by the department.

Upon the completion of this curriculum the five-year normal diploma is granted, provided 20 hours of education are included, which are selected by the School of Education. Students may enter the teachers' courses (160A, 160B, etc.) with a prerequisite of 20 hours in the sciences chosen.

<i>First Year</i>	<i>Credits</i>	<i>Second Year</i>	<i>Credits</i>
Science	20	Science	20
English	0 to 10	Education 101	5
Electives	15 to 25	History	10
Mil. Sci. or Phys. Ed.	5	Electives	10
		Mil. Sci. or Phys. Ed.	5
<i>Third Year</i>	<i>Credits</i>	<i>Fourth Year</i>	<i>Credits</i>
Science	20	Science	20
Education	8	Education	7
Philosophy and Psychology	10	††Econ., Pol. Sci., Sociology	10
Electives	7	Electives	8

REGULATIONS GOVERNING THIS CURRICULUM

(a) A student may select any three of the following sciences and must complete the amount of work in any particular science, as indicated.

Botany	20 credits	Mathematics	20 credits
Chemistry	20 credits	Physics	20 credits
Geology	20 credits	Zoology	20 credits

(b) Included in or in addition to the courses in (a) every student must take 5 credits in mathematics, 10 credits in physics, 10 credits in chemistry, and 10 credits in botany or zoology.

(c) If 20 credits of chemistry are taken, only 15 of geology are required.

(d) The history requirement of 10 hours must be U.S. history if this subject was not taken in the high school; otherwise, History 1 and 2, or any other history may be elected to which the student is eligible.

(e) Under the heading of economics, political science, or sociology, the 10 credits required may be secured in one department only, or 5 credits each in two departments.

B. SIX-YEAR COURSE IN SCIENCE AND LAW

This is a combination course whereby a student may obtain the degrees of bachelor of science and bachelor of laws in six years. At the end of his third year, after he has earned 135 credits and the required credits in military science or physical education, and completed all required work with a major in some department, he may register in the School of Law for the first year's work in law. He will be granted the bachelor of science degree at the end of the fourth year, or as soon as he completes the required work above specified with 9 additional credits in the College of Science and 36 credits in the School of Law; making a total of 190 credits for graduation. The fifth and sixth years of the combined course are devoted to completing the remainder of the required work for graduation from the School of Law.

C. FIVE-YEAR COURSE IN SCIENCE AND LIBRARY SCIENCE

This course is for students who are preparing to become professional librarians and who desire to receive degrees of bachelor of science and bachelor of library science. Under this arrangement a student should first complete all the required work of the course for science teachers (outlined under Section A), substituting courses in library science for the 20 credits in education. A portion of the fourth year and all of the fifth year are devoted to required subjects in library science. If this plan is carefully

†† See Political Science department for requirement of Pol. Sci. 101.

followed, a student should earn the degree of bachelor of science at the end of the fourth year, and the degree of bachelor of library science at the end of the fifth year. (See Library School section, page 142.)

D. A CURRICULUM FOR PRE-LIBRARY STUDENTS IN THE COLLEGE OF SCIENCE

FIRST YEAR

<i>Credits</i>	<i>Credits</i>
*Mod. Lang. †1, 2, 3. French or Ger..15	Zoology †1, 2. Elementary.....10
Astronomy 1. General..... 5	Lib. Arts 1. Intro. to Mod. Thought.. 5
Psychology †1. Introduction..... 5	Chem. †1-2 or 21-22. General.....10

SECOND YEAR

<i>Credits</i>	<i>Credits</i>
*Mod. Lang. †Fourth quarter of For. Lang. previously taken..... 5	Zoology †16. Evolution..... 2
Begin other For. Lang. required by Library School .....10	17. Eugenics 2
Pol. Sci., Econ. or Soc. 1. Intro..... 5	History 1-2. Mod. and Medieval.....10
English †1, 2. Composition.....10	Geology †1, 2. General.....10
	Music 13. Appreciation..... 5

THIRD YEAR

<i>Credits</i>	<i>Credits</i>
*Mod. Lang. †Complete Library School Requirement .....10	Physics †89-90. Physics of the Home..10
Botany †1, 2. General.....10	History 130. Europe, 1814-1870..... 5
Lib. Arts 11. Intro. to Fine Arts... 5	131. Europe, since 1870..... 5
Pol. Sci. †101. Const. Gov. in U.S. and Wash. 2	English 136, 137. 19th Cent. Prose... 6

For those who take the library curriculum in the senior year no academic major is required in the College of Science, as the technical training of the Library School constitutes this major. Subjects marked with the double dagger are required. The complete Library School curriculum constitutes the fourth year of study.

IV. PRESCRIBED CURRICULA IN VOCATIONAL SUBJECTS

A. PRESCRIBED CURRICULA IN HOME ECONOMICS

Many fields of activity other than teaching are open to women trained in home economics. In each line of work offered, there is opportunity to supplement the technical work of the laboratory with practical experience. In food preparations, the students do practical work in the University Commons, commercial establishments, hospitals and clubs. In the clothing courses, students learn first to sew for themselves and then for customers.

Seniors are required to live in the practice cottage on the campus where they take full responsibility for the management and care of the house for a family of four during a period of three weeks.

The following grouping is arranged as a guide in selecting work that will best satisfy the requirements of each individual:

Group I, General, for students who desire a liberal college training with emphasis on subjects that pertain to home economics. Persons interested in social betterment who wish to enter definite welfare work may combine home economics and sociology in this curriculum.

Group II, Food and Nutrition, for students who wish to specialize in teaching this phase of the work in institutions of higher education, for laboratory or research workers. Those who intend to become sanitary and food inspectors are also advised to take the course.

Group III, Teachers' Curriculum for High School Teachers of Home Economics, combines home economics and liberal arts subjects, chemistry,

³ The Library School requires 20 hours each of French and German in either high school or college.

physics, bacteriology, fine arts, physiology and economics. Courses are arranged to meet the particular needs of home economics students. Practice teaching extending through one quarter in the Seattle schools is required. On application to the State Board of Vocational Education, graduates of this course will receive a Smith-Hughes certificate. A teaching major in home economics consists of: H.E. 4, 5, 7, 116, 8, 25, 43, 107, 108, 111, 112, 113, 143, 144, 145, 148 with their prerequisites.

Group IV, Institutional Management, combines the fundamental sciences, technical and business courses with practice work. Young women training along this line with initiative and ability find positions that offer increasingly attractive returns.

Group V, Textiles, Clothing and Fine Arts, requires a minimum of science but gives ample opportunity for combining work in design with clothing and textiles for the purpose of general culture or for use in a commercial field. A major in business administration may be included.

Any of these five lines leads to the degree of bachelor of science in home economics. Students who fulfill all entrance requirements of the college of Liberal Arts may use home economics as a major for the degree of bachelor of arts.

"Preferred elective" refers to required courses from which the student may be exempted in certain cases with the approval of the head of the department.

GROUP I—GENERAL CURRICULUM

To provide a liberal college training, and for those students who wish to fit themselves for the following vocations:

1. Homemaking.
2. Social Service. (Elect economics and sociology.)

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2	5	Physiology 7	5
Zool. 1 or Bot. 1.....	5	Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5
Phys. Ed.	2	Zool. 2 or Bot. 2.....	5	Lang., Lit. or Hist.....	5
		Phys. Ed.	2	Phys. Ed.	2

Preferred electives—H.E. 4, 7, 8, 25, 43; Nursing 5.

SECOND YEAR

Lang., Lit. or Hist.....	10	Lang., Lit. or Hist.....	10	Lang., Lit. or Hist....	5
Phys. Ed.	2	Phys. Ed.	1	Psychology 1	5
				Economics 1	5
				Phys. Ed.	1

Preferred electives—H.E. 5; P.S.D. 9; Bact. 101.

THIRD YEAR

Philosophy 2	5	Sociology 1	5	Pol. Sci. 101.....	2
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Preferred electives—H.E. 105-106, 111, 112, 113, 116; Physics 89-90.

FOURTH YEAR

Preferred electives—H.E. 144-145, 148, 143; Arch. 1-2.

GROUP II—FOOD AND NUTRITION

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2	5	Chemistry 2 or 22.....	5
Physiology 53	5	Chemistry 1 or 21.....	5	Physiology 55	5
Phys. Ed.	2	Physiology 54	5	Lang., Lit. or Hist.....	5
		Phys. Ed.	2	Phys. Ed.	2

Preferred electives—H.E. 4, 7, 8, 25; P.S.D. 9.

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Lang., Lit., or Hist...	5	Lang., Lit., or Hist...	5	Lang., Lit., or Hist...	5
Bacteriology 101	5	Bacteriology 102	5	Psychology 1	5
Chemistry 135	5	Chemistry 136	5	Chemistry 144	5
Phys. Ed.	2	Phys. Ed.	1	Phys. Ed.	1

Preferred electives—H.E. 5; Soc. 56, 57; Psych. 118, 121.

THIRD YEAR

Pol. Sci. 101.....	2	Economics 1	5	Chemistry 104	4
				Sociology 1	5

Preferred electives—H.E. 107-108, 111, 116; Nursing 5; Physics 89-90.

FOURTH YEAR

Preferred electives—H.E. 148, 183, 190, 191 and related sciences.

GROUP III—SMITH-HUGHES TEACHER TRAINING

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2	5	Lang., Lit., or Hist...	5
Physiology 6	5	Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5
Phys. Ed.	2	Phys. Ed.	2	Phys. Ed.	2

Preferred electives—H.E. 4, 7, 8, 25; P.S.D. 9.

If H.E. 4 and 8 are taken in high school, substitute H.E. 43 and Nursing 5.

SECOND YEAR

Lang., Lit., or Hist...	5	Lang., Lit., or Hist...	5	Lang., Lit., or Hist...	5
Chemistry 135	5	Chemistry 136	5	Psychology 1	5
Physical Ed.	2	Physical Ed.	1	Physical Ed.	1
Preferred electives—		Home Economics 43....	3		
Home Economics 5.....	5	Nursing 5	2	Bacteriology 101	5

THIRD YEAR

Education 101	5	Education 140	5	Economics 1	5
				Education 119	3
				Sociology 1	5
Preferred electives—		Physics 90	5	Home Econ. 107-108....	10
Physics 89	5	Home Economics 118... 5	5	Home Economics 148... 3	3
Home Economics 112... 5	5	Home Economics 116... 5	5	Home Economics 111... 3	3

FOURTH YEAR

Education 100I	3	Education 160J	3	Education 145	5
				Pol. Sci. 101.....	2
Preferred electives—				Home Economics 145... 2	2
Home Economics 148... 2	2	Home Economics 144... 2	2	Home Economics 183... 3	3
Architecture 1, 2..... 4	4				

GROUP IV—INSTITUTIONAL MANAGEMENT

To be taken by those who wish to fit themselves for the following vocations:

1. Dietitians.
2. House directors.
3. Managers of tearooms, lunchrooms, cafeterias.
4. Food service in state, municipal, or charitable institutions.

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	English 2	5	Chemistry 2 or 22.....	5
Physiology 6	5	Chemistry 1 or 21.....	5	Lang., Lit., or Hist...	5
Physical Ed.	2	Physical Ed.	2	Physical Ed.	2

Preferred electives—H.E. 4, 7, 25; P.S.D. 9; B.A. 65 and B.A. 106.

SECOND YEAR

Lang., Lit., or Hist...	5	Lang., Lit., or Hist...	5	Lang., Lit., or Hist...	5
Chemistry 135	5	Chemistry 136	5	Psychology 1	5
Physical Ed.	2	Physical Ed.	1	Physical Ed.	1

Preferred electives—H.E. 5; Bact. 101.

Curricula

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THIRD YEAR

Pol. Sci. 101..... 2 Economics 1 5 Sociology 1 5
 Preferred electives—H.E. 107-108, 116, 124, 143; Chem. 144; Physics 89-90.

FOURTH YEAR

Preferred electives—H.E. 121, 122, 123, 125, 144, 145, 148, 190, 191; Arch. 1-2.

GROUP V—TEXTILES, CLOTHING AND FINE ARTS

SUMMARY

	Credits		Credits
College requirements	65	Free electives	34
Fine Arts	31	Physical Education	10
Home Economics	50		190

A major in business administration may be elected with this curriculum. This is advised for those who wish to enter commercial fields in costume design. For this purpose students should elect the following courses: Business Administration 1, 62, 106, 136, 146, 147, 198. The normal diploma may be secured by electing the subjects required: Ed. 101, 140, 119, 145, 1601.

SUGGESTED SCHEDULE

College Requirements	Credits	Fine Arts	Credits	Home Economics	Credits
English	10	P.S.D. 5, 6	6	H.E. 7, Survey.....	2
Lang., Lit., or Hist....	20	P.S.D. 9, 10, 11	9	H.E. 8, Ele. Clothing..	3
Chem. 1-2, 21-22 or		P.S.D. 169, 170	4	H.E. 25, Textiles.....	5
Phys. 89-90	10	Arch. 1-2	4	H.E. 127, Non-Textiles.	3
Physiology 7	5	P.S.D. Electives	8	H.E. 101-102	4
Economics 1	5			H.E. 109, House M'gt..	2
Sociology 1	5			H.E. 112-113, Clothing..	10
Psychology 1	5			H.E. 130-131 Commercial	
Philosophy 1 or 2.....	5			Costume Construction	6
	65		81	H.E. 133 Costume Des..	5
Free Electives inc. Pol.				H.E. 135, Millinery....	3
Sci. 101	34			H.E. 143, Home Furn... 3	
				H.E. 148, Frac. Cottage.	2
				H.E. 188, Adv. Text... 2	
				50	
				Physical Education	10

B. FIVE-YEAR CURRICULUM FOR NURSES

Believing that a broader scientific education is desired by young women entering the nursing profession, the University offers a five-year course in nursing education, including three years at the University and two years at a hospital selected by the University. This course leads to a degree of bachelor of science in nursing education and a certificate of nursing.

FIRST YEAR

4 — Home Economics 1.....	English 1	5 ✓ Chemistry 2 or 22.....	5
Nursing Education 1 ...	Chemistry 1 or 21.....	English 2	5 ✓
Physics 89	Physics 80	Psychology 1	5 ✓
Phys. Ed.	Phys. Ed.	Phys. Ed.	2 ✓

SECOND YEAR

7 — Home Econ. 105.....	Home Econ. 106.....	Anatomy 101	3
Physiology 53	Physiology 54	Physiology 55	5
Economics 1	Sociology 1	Nursing Ed. 50	5
Phys. Ed.	Phys. Ed.	Electives	2 ✓
		Phys. Ed.	1 ✓

THIRD YEAR

Anatomy 102	Anatomy 103	Pol. Sci. 101.....	2
Bacteriology 101	Bacteriology 102	Bacteriology 103	5
English 40	Electives	Electives	8 ✓
Electives			2 ✓

CURRICULUM TO BE FOLLOWED IN HOSPITAL BY FIVE-YEAR NURSING STUDENTS

<i>Credits</i>		<i>Credits</i>	
Hygiene and Sanitation	2	Modern Social and Health Movements..	3
Materia Medica	4	Obstetrical Nursing	3
Elementary Nursing Procedure.....	6	Mental Nursing	3
Advanced Nursing Procedure.....	3	Emergency Nursing	2
Elements of Pathology.....	2	Diseases of Eye, Ear, Nose, and Throat	2
Medical Nursing (including diseases of skin)	6	Pediatric Nursing	3
Surgical Nursing	3	Nursing Practice	48

CURRICULUM FOR GRADUATE NURSES

FIRST YEAR

<i>Credits</i>		<i>Credits</i>		<i>Credits</i>	
<i>Autumn Quarter</i>		<i>Winter Quarter</i>		<i>Spring Quarter</i>	
English 1	5	Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5
Psychology 1	5	English 2	5	Economics 1	5
Elective	5	Elective	5	Elective	5
Phys. Ed.	2	Phys. Ed.	2	Phys. Ed.	2

Preferred electives—Sociology 1, 63, 62; Zoology 16, 17.

SECOND YEAR

Physiology 53	5	Physiology 54	5	Physiology 55	5
Home Economics 105..	5	Home Economics 106..	5	Education 101	5
Elective	5	Elective	5	Elective	5
Phys. Ed.	2	Phys. Ed.	1	Phys. Ed.	1

Preferred electives—Psychology 101, 114, 131; English 40; Sociology 131.

THIRD YEAR

Bacteriology 101	5	Bacteriology 102	5	Bacteriology 103	5
Nursing 102	5	Elective	5	Elective	8
Elective	5	Nursing 103	5	Pol. Sci. 101.....	2

Preferred electives—Sociology 155, 150, 157, 171, 173; Nursing 110.

C. PHYSICAL EDUCATION FOR MEN

FIRST YEAR

<i>Credits</i>		<i>Credits</i>		<i>Credits</i>	
<i>Autumn Quarter</i>		<i>Winter Quarter</i>		<i>Spring Quarter</i>	
English 1	5	English 2	5	Sociology 1	5
Zoology 1	5	Zoology 2	5	Chemistry 2 or 22.....	5
P.E. 80, Intr. to P.E. 2		Chemistry 1 or 21.....	5	P.E. 90, Per. Gen. Hyg. 3	
P.E. 1	1½	P.E. 2	1½	P.E. 3	1½
Electives	3			Electives	2

SECOND YEAR

Physiology 53	5	Physiology 54	5	Physiology 55	5
Bacteriology 103	5	Psychology 1	5	P.E. 110	2
P.E. 61 or 58.....	1½	P.E. 52 or 50.....	1½	P.E. 53 or 60.....	1½
Electives	5	Electives	5	Electives	8
				Suggested elective—	
				P.E. 173	2

THIRD YEAR

Education 101	5	Education 119	3	Education 150	3
P.E. 131	3	Pol. Sci. 101.....	2	P.E. 133	3
P.E. 141	3	P.E. 132	3	P.E. 143	3
Electives	4	P.E. 142	3	Electives	6
Suggested elective—		Electives	4	Suggested elective—	
P.E. 171	2	Suggested elective—		P.E. 113	3
		P.E. 175	2		

FOURTH YEAR

Education 140	5	Education 145	2	Education 145	3
P.E. 145	3	Education 160S	2	P.E. 150	3
Electives	7	Education 151	3	P.E. 153	2
Suggested electives—		Nursing 140	3	Electives	7
P.E. 174	2	Electives	5	Suggested electives—	
P.E. 172	2	Suggested elective—		P.E. 170	2
		P.E. 155	5	P.E. 176	2

D. PHYSICAL EDUCATION FOR WOMEN

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
English 1	5	Soc. 1	5	English 2	5
Zool. 1	5	P.E. 100	2	Zool. 17	2
Zool. 16	2	P.E.	2	P.E.	2
P.E. 2	2	Electives	6	Electives	6
Electives	2				

Summer Quarter—P.E. 180—2 credits.

SECOND YEAR

Physiology 53	5	Physiology 54	5	Physiology 55	5
Anatomy 101	3	Dramatic Art 5	5	P.E. 113	3
Anatomy 110	1	Anatomy 111	1	P.E. 108	2
P.E. 111	3	P.E. 112	3	Psychology 1	5
P.E.	2	P.E. 174	2	P.E.	1
Electives	2	P.E.	1	Anatomy 112	1

Note.—Major students must elect 6 hours from following courses during junior and senior years: P.E. 167, 169, 170, 171, 172.

THIRD YEAR

P.E. 114	2	P.E. 105	2	P.E. 106	2
P.E. 122	2	P.E. 101	3	P.E. 102	3
P.E. 104	3	P.E. 155	2	P.E. 156	2
P.E. 154	2	P.E. 175	2	Education 119	3
Education 101	5	Political Science 101	2	Electives	5
Electives	2	Electives	5		

FOURTH YEAR

Education 160R.	2	Education 145	1	Education 145	2
Education 140	5	P.E. 132	3	P.E. 153	2
Education 145	2	P.E. 152	2	P.E. 133	3
P.E. 181	3	Nursing 140	3	Electives	9
Electives	3	Electives	6		

The equivalent of Chemistry 1-2 or Physics 89-90 required in either high school or at the University.

A student may also use physical education as a major, following the prescriptions outlined under Group I (curricula with major in one department). The department recommends that any student planning to teach physical education follow the four-year curriculum rather than the curriculum with a major in one department.

E. PRE-MEDICAL CURRICULA

TWO AND FOUR-YEAR CURRICULA PREPARATORY TO MEDICINE

The University offers two curricula preparatory to the study of medicine. One of these is for two years, and will meet the requirements of medical schools which require only two years of college work for admission to their professional study. The second is for four years, and prepares students for those medical schools that require for admission the completion of a full four-year college course. The curricula will not reduce the amount of work to be done by the student in the medical school but they are designed to increase its efficiency.

These courses are also well adapted for pre-dental students, as the best dental schools require the same foundation work as the medical schools.

Below is the outline of the four-year curriculum. The first and second years constitute the two-year curriculum:

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Chemistry 1 or 21	5	Chemistry 2 or 22	5	Chemistry 23	5
Zool. 3 (Pre-medical)	5	Zool. 4 (Pre-medical)	5	Physiology 7	5
English 1	5	English 2	5	Psychology 1	5
Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Sci. French or German.	5	Chem. 128 (Organic)...	5	Chem. 129 (Organic)...	5
Physics 1	5	Physics 2	5	Physics 3	5
English 73	3	Electives	5	Ec. 1 or Pol. Sci. 1..	5
Electives	2	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½
Mil. Sci. or Phys. Ed..	1½				

THIRD YEAR

Anatomy 101	6	Anatomy 102	6	Anatomy 103	6
Anatomy 105	6	Anatomy 106	6	Anatomy 107	6
*Bacteriology 101	5	*Bacteriology 106	5	*Bacteriology 104	5

FOURTH YEAR

Physiology 151	5	Physiology 152	5	Physiology 153	5
*Chemistry 161	5	*Chemistry 162	5	Bacteriology 112	5
Bacteriology 105	5	Elective	6	Anatomy 104	4
				Pol. Sci. 101.....	2

V. CURRICULUM LEADING TO CERTIFICATE IN PUBLIC HEALTH NURSING

The broadening of the field of nursing has created a demand on the part of nurses for definite study along lines which experience has shown to be closely interwoven with the problems of the family and the community. A nurse must combine with the technical knowledge she already possesses an understanding of the fundamental principles of economics and the social sciences.

The demand for properly trained and qualified public health nurses is constantly increasing as new fields open through recognition by the public of the economic value of the work. Beginning each quarter of the year the University offers a nine-months' course in public health nursing, which is open to graduate nurses who are deemed qualified for such work, and who wish to broaden their training to take up positions in this specialized line.

The curriculum:

Nursing Educ. 102	5	‡Psychology 1	5
Nursing Educ. 103	5	‡Psychology 131, 132	8
‡Sociology 171	5	‡Bacteriology 108	5
‡Home Economics 105-106	10	‡Education 101	5
‡English 40	5	Field Work	16
		Total credits required.....	45

EXTENSION SERVICE CURRICULUM AT FIRLAND SANATORIUM

Which Also Leads to the Certificate in Public Health Nursing.

Nursing Educ. 102	3	Sociology 171	5
Nursing Educ. 108	3	Psychology 1	3
H.E. 104	3	English 1	5

SERVICE COURSE FOR NURSES

To meet the needs for certain courses in the basic sciences, the University is offering a one-quarter course to students who have entered the hospital schools of nursing.

Requirements for entrance: 1. Recommendation of the hospital superintendent. 2. High school graduation.

The curriculum:

Chemistry 7	5	Anatomy 25	2
Home Economics 9.....	5	Physiology 20	2

* Approved electives may be substituted.
‡ Electives.

VI. PRE-LANDSCAPE GARDENING CURRICULUM

The climate and flora of this region make it peculiarly fitted for the study of landscape gardening. There are likewise increasing demands for work of this nature. It therefore seems possible and feasible to construct from courses already offered in the University a two-year curriculum for those students who wish to specialize in landscaping. This will enable them to finish the course, such as that offered at the University of California, Cornell University, Iowa State College, Washington State College and Oregon State College, in two years.

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Botany 1	5	Botany 2	5	Botany 3	5
P.S.D. 5	3	P.S.D. 6	3	P.S.D. 7	3
English 1	5	English 2	5	Economics 1	5
Mathematics 54	3	Mathematics 55	3	Geology 1a	3
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Arch. 1	2	Arch. 2	2	Arch. 114	2
Arch. 4	4	Arch. 5	4	G. E. 21	3
Arch. 7	1	Arch. 8	1	Botany 90	3
Arch. 112	2	Arch. 113	2	Botany 101	5
B.A. 54	3	G.E. 7	3	Elective	2
English 40	5	Geology 1b	2	Mil. Sci. or Phys. Ed..	1½
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½		

COURSES OF STUDY

For description of courses see Departments of Instruction section.

GENERAL NOTE.—Each student is to be held either for the admission and graduation requirements of the catalogue under which he enters, or for those of the catalogue under which he graduates.

SCHOOL OF EDUCATION

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) ..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Uhl, Willis Lemon, Ph.D. (Chicago).....*Professor of Education; Dean of the School of Education*
Bolton, Frederick Elmer, Ph.D. (Clark).....*Professor of Education; Dean Emeritus*
Randolph, Edgar Dunnington, Ph.D. (Columbia).....*Professor of Education*

ASSOCIATE PROFESSORS

Jessup, John, M.A. (Iowa).....*Associate Professor of Education*
Williams, Curtis Talmadge, Ph.D. (Clark).....*Associate Professor of Education*

ASSISTANT PROFESSORS

Bishop, Omen, Ph.D. (Iowa).....*Acting Assistant Professor of Education*
Draper, Edgar Marion, Ph.D. (Washington).....*Assistant Professor of Education*
Dvorak, August, Ph.D. (Minnesota).....*Assistant Professor of Education*

ASSOCIATES

Corbally, John Edward, M.A. (Washington).....*Associate in Education*
Foster, Frank Kale, M.A. (Washington).....*Associate in Education*

COOPERATING FACULTY

Benson, Henry Kretzer, Ph.D. (Columbia).....*Professor of Chemical Engineering*
Cox, William Edward, A.M. (Texas).....*Professor of Business Administration; Dean of the College of Business Administration*
Frein, Pierre Joseph, Ph.D. (Johns Hopkins).....*Professor of Romantic Languages*
Frye, Theodore Christian, Ph.D. (Chicago).....*Professor of Botany*
Glen, Irving Mackey, A.M. (Oregon)..*Professor of Music; Dean of the College of Fine Arts*
Griffith, Dudley David, Ph.D. (Chicago).....*Professor of English*
Kincaid, Trevor, M.A. (Washington).....*Professor of Zoology*
Landes, Henry, A.M. (Harvard).....*Professor of Geology; Dean of the College of Science*
Martin, Charles Emanuel, Ph.D. (Columbia).....*Professor of Political Science*
McKenzie, Roderick D., Ph.D. (Chicago).....*Professor of Sociology*
McKenzie, Vernon, M.A. (Harvard).....*Professor of Journalism; Dean of the School of Journalism*
McMahon, Edward, A.M. (Wisconsin).....*Professor of American History*
Meany, Edmond Stephen, LL.D. (College of Puget Sound).....*Professor of History*
Moritz, Robert Edouard, Ph.N.D. (Strassburg).....*Professor of Mathematics*
Ober, Caroline Haven.....*Professor of Spanish*
Osborn, Frederick Arthur, Ph.D. (Michigan).....*Professor of Physics*
Raitt, Effie Isabel, A.M. (Columbia).....*Professor of Home Economics*
Smith, George McPhail, Ph.D. (Frelburg).....*Professor of Inorganic Chemistry*
Weinzirl, John, Dr.P.H. (Harvard).....*Professor of Bacteriology*
Denny, Grace Goldena, A.M. (Columbia).....*Associate Professor of Home Economics*
Eckelman, Ernest Otto, Ph.D. (Heidelberg).....*Associate Professor of Germanic Languages*
Gross, Mary Emma, A.M. (Columbia).....*Associate Professor and Director of Physical Education for Women*
Jones, Robert William, A.M. (South Dakota).....*Associate Professor of Journalism*
Newenham, Frances Dickey, A.M. (Columbia).....*Associate Professor of Music*
Renner, George T. Jr., Ph.D. (Columbia).....*Associate Professor of Geography*
Stone, Edward Noble, A.M. (Olivet College).....*Associate Professor of Classical Languages*
Foster, Henry M., M.A. (Columbia).....*Assistant Professor and Director of Physical Education for Men*
Lovejoy, Albert, B.L.I. (Emerson College of Oratory).....*Acting Assistant Professor of Dramatic Art*
Rhodes, Helen Nelson, B.A. (Washington).....*Assistant Professor in Design*
Draper, Oscar Eldridge, M.A.*Lecturer on Business Administration*
Meisenst, Frederick William, Ph.D. (Wisconsin).....*Lecturer on German*
Sperlin, Otis Bedney, Ph.M. (Chicago).....*Lecturer on English*
Jerbert, Arthur Rudolph, Ph.D. (Washington).....*Instructor in Mathematics*
Hamack, Frank Hartmond, LL.B. (Georgetown).....*Associate in Business Administration*

GENERAL STATEMENT

The School of Education bases its work on two years of college or normal school. Only one course in education, 101 or 102, is allowed in the sophomore year. The degrees awarded are bachelor of arts in education or bachelor of science in education, according to the character of the academic work chosen.

The work in the school is strictly professional and seeks to afford special training and technique for the various types of teachers and educational specialists. Emphasis is placed on graduate work. A probationary teaching certificate, the five-year normal diploma, is granted for a minimum amount of professional study, but all wishing to secure the life diploma are required to spend at least one quarter in residence after graduation and complete a total of 35 credits (including the undergraduate work) in education.

Scope and Aims.—The curriculum of the School of Education assumes that teachers should have a broad and liberal education, supplemented by professional training, giving knowledge of the pupils to be taught and the problems to be met, and new meaning to the subjects of instruction, as well as fundamental principles of teaching; and that they should be masters of some special subject which they expect to teach.

The school is especially fitted to provide teachers of the following types: (1) high school teachers, (2) high school principals, (3) superintendents of public schools, (4) grammar school principals, (5) supervisors of primary schools, (6) supervisors and teachers of music, drawing, manual and industrial arts, home economics, physical training and other special subjects, (7) normal school and college instructors in education, (8) experts in educational research, (9) specialists in the education of defectives, (10) playground directors, (11) Y.M.C.A. and Y.W.C.A. workers, (12) juvenile court workers.

General Academic Work.—Because of the variety of work which every teacher is likely to be required to do on beginning to teach, and because of the requirements for state certificates, elementary college courses should be taken in not less than four subjects taught in the high schools.

Specialized Academic Work.—Each teacher should have thoroughly extended preparation in one subject and reasonable preparation in at least two additional subjects. Experience has shown that the following combinations are most frequently demanded: Latin, French; Latin, Greek; English, French; English, history, civics; English, Latin, history; Spanish, French; mathematics, physics, chemistry; botany, zoology, physiology, physiography; home economics alone or in connection with one or two other subjects; manual and industrial arts alone or in connection with one or two other subjects; commercial subjects alone or with other subjects; athletics, music or drawing in combination with other work. One teacher is frequently required to teach all the sciences. Public speaking is desirable as part of the preparation for teaching English.

Professional Work.—The requirements for the academic major and minors assure a proper distribution of the academic subjects. The professional work consists (a) of the courses in the department of education, (b) the teachers' courses in the various academic departments.

Special Teachers' Courses.—Many academic departments have teachers' courses covering the problems of teaching their subjects in high schools. Work in special methods relating to particular subjects is given by instructors dealing most directly with the subject matter. Foundation principles of general methods based on the laws of learning and teaching are developed in the department of education.

Observation and Supervised Teaching.—By an arrangement between the University and the schools of Seattle students in the department of education may observe the regular work in certain schools (at present twelve are used) and do supervised teaching under the direction of the regular teachers of the school and the university professor in charge of that work. Thus students have an opportunity to gain valuable experience under exceptionally favorable conditions.

Industrial Arts.—Because of the excellent industrial arts work in the Seattle public schools, students have unusual facilities for observing the best organization and equipment. A large number of industrial centers and pre-vocational classes are maintained in various parts of the city.

Athletics and Playground Activities.—At the present time there is a strong demand for teachers, both men and women, who can direct various forms of athletics and playground activities in high school and the grammar grades.

Public School Music.—Not only is there a demand for specially trained supervisors of music in the schools, but every school needs teachers who can assist in the general musical activities of the school and community. Every teacher who has any musical ability should take some training in music and participate in some of the University musical organizations.

Debating, Dramatics, Public Speaking.—Every teacher will be called on to assist in the incidental work of the school. The small towns cannot afford special teachers of public speaking and debate and consequently the teacher who prepares to assist in these lines increases his usefulness. Every student should participate in some of these lines throughout his college course and should take definite courses in these subjects.

Journalism in High Schools.—Newspaper writing is being introduced in some of the best high schools as part of the English course. It seems to afford a valuable incentive to many pupils in their English work. The teacher who undertakes this work needs to be especially well trained professionally as well as in English and journalism. For a proper combination of courses the student should consult the departments of education, English, and journalism.

Commercial Subjects.—At present the demand on the University for teachers of commercial subjects far exceeds the supply. To prepare for this line of work the student should include courses in bookkeeping, stenography, commercial law, commercial policies, commercial geography, economics, besides the professional training in education.

Teaching of Technical Subjects in College.—Many students of engineering, forestry, law, and other technical subjects ultimately plan to teach those subjects in colleges or technical schools. An increasing number of such students desire professional training in educational theory and methods as part of their preparation.

The Study of Education and Citizenship.—Courses in education are valuable both for those who expect to teach and for those who expect to become useful citizens of any community. Many courses in education, therefore, are rightly coming to be pursued by students not expecting to become teachers.

Extension Service.—The department of education is pleased to render service to the cause of education in many ways besides through regular courses of instruction. Members frequently give addresses at teachers' institutes, parent-teacher associations, educational associations, community centers, school dedications, and school commencements. They also are pleased to conduct educational surveys as far as time will permit.

Saturday and Evening Classes.—To accommodate teachers of Seattle and vicinity several classes in education are scheduled on Saturday and during the late afternoon and evening.

Bureau of Appointments.—The University maintains an appointment bureau to assist students in obtaining desirable positions. The services are entirely free to students and graduates of the University and to employers.

Honorary Educational Societies.—Chapters of Phi Delta Kappa, men's national honorary educational fraternity, and Pi Lambda Theta, women's national honorary educational sorority, have been established for several years. Each has a large and vigorous membership. A men's education club has recently been organized.

ADMISSION

The admission requirements are completion of 90 hours of college credit earned in the University of Washington or in an accredited institution of equal rank. Disposition of these 90 hours shall be determined by mutual agreement of the faculty of the School of Education and the faculty of the particular college concerned, and shall be administered by the dean of the college in accordance therewith. In addition the usual undergraduate requirements in physical training or military drill must be completed.

Sophomores who have earned 65 hours of credit may enroll in course 101, Introduction to Education, or 102, Elementary Educational Psychology.

Admission of Normal School Graduates to Advanced Standing.—Advanced credit for work taken in approved normal schools by students previously graduated from an accredited four-year secondary school, will be allowed at the rate of 45 hours of lump credit for each full year's work completed in the normal school, the minimum amount accepted as a year's work being 36 weeks of attendance with at least 45 quarter credits, not more than 19 of which shall have been earned in one quarter.

For graduation with the degree of bachelor of arts in education or bachelor of science in education a normal school graduate with such advanced credit must earn in the University a sufficient number of credits to bring the total up to 180 credits plus ten credits of required courses in physical education or military science, and including all specific requirements for the degree not fully covered by previous work. Claims for exemption from specific requirements, based on work in normal school, are passed on by the registrar and the dean of the college concerned.

A minimum of three full quarters in residence is required for any degree granted by the University.

The work of the senior year (a minimum of 36 credits earned in three quarters) must be done in residence.

It should be noted that a student whose work in high school and normal school has not included a sufficient number of special requirements of the School of Education, may find it necessary to offer more than the usual 190 credits for the degree of bachelor of arts in education or the degree of bachelor of science in education.

GRADUATION

For graduation from the School of Education with the degree of bachelor of arts in education or bachelor of science in education there shall be completed 90 hours of credit beyond requirements for entrance to the school, at least 48 of which shall be in upper division subjects. In the

total of 180 hours of academic credit required for graduation from the School of Education the following must be included:

Academic major	35 credits
Academic minor	20 credits
Education, including 2 hours special teachers' course.....	25 credits

The education courses required for the degree of bachelor of arts in education, or bachelor of science in education shall include the following:

<i>Credits</i>	<i>Credits</i>
101. Intro. to Study of Educ or	145. Practice Teaching
102. Elem. Educ. Psychology..... 5	150. Educational Measurements 3
119. Secondary Educ..... 3	160. Teachers' Course in Special Sub. 2
140. Psychology of Teaching Methods. 5	Educational Electives
	2

Normal school graduates who are candidates for the bachelor's degree from the School of Education are required to take the following courses in education:

<i>Credits</i>	<i>Credits</i>
119. Secondary Education	160. Teachers' Course in Special. Sub. 2
150. Educational Measurements	Electives in Education.....
152. Social Surveys of Education.... 2	10

An academic major consists of a minimum of 35 credits in some subject other than education, the number of credits and distribution of which shall be approved by the University faculty.

An academic minor consists of a minimum of 20 credits in some subject other than education, the number of credits and distribution of which shall be approved by the general faculty.

Part of the preparation in the academic major and minor should be completed before entrance to the School of Education.

No courses in education may be taken before the junior year, except that sophomores who have earned 65 quarter hours of credit may enroll in course 101, Introduction to Education, or 102 Elementary Educational Psychology.

Students in other colleges or schools of the University may elect courses in education according to conditions fixed by those colleges and not inconsistent with regulations of the School of Education.

DISTRIBUTION OF COURSES IN EDUCATION IN PREPARATION FOR SPECIAL TYPES OF POSITIONS. LEADS TO MASTER'S DEGREE

Requirements in Education for Bachelor of Arts in Education, or Bachelor of Science in Education.

High School Principal <i>*Credits</i>	Grade School Principal <i>*Credits</i>	Village Superintendent <i>*Credits</i>	City Superintendent <i>*Credits</i>
Introduction to the Study of Educ. 5	Introduction to the Study of Educ. 5	Introduction to the Study of Educ. 5	Introduction to the Study of Educ. 5
or	or	or	or
Elementary Educ. Psych. 5	Elementary Educ. Psych. 5	Elementary Educ. Psych. 5	Elementary Educ. Psych. 5
Secondary Educ. 3	Secondary Educ. 3	Secondary Educ. 3	Secondary Educ. 3
Psych. of Teaching Method ... 5	Psych. of Teaching Method ... 5	Psych. of Teaching Method ... 5	Psych. of Teaching Method ... 5
Teachers' Course in Spec. Subj. 2	Teachers' Course in Spec. Subj. 2	Teachers' Course in Spec. Subj. 2	Teachers' Course in Spec. Subj. 2
Practice Teaching 5	Practice Teaching 5	Practice Teaching 5	Practice Teaching 5
Educ. Measurements 3	Educ. Measurements 3	Educ. Measurements 3	Educ. Measurements 3
Electives in Educ. 2	Electives in Educ. 2	Electives in Educ. 2	Electives in Educ. 2
<hr/> 25	<hr/> 25	<hr/> 25	<hr/> 25

* Quarter hours.

ADDITIONAL REQUIREMENTS IN EDUCATION FOR MASTER'S DEGREE

Junior High School 5	Junior High School 5	Educational Soci- ology 3	Junior High School 5
High School Or- ganization 2	Intelligence and its measurement .. 6	Psych. of Element- ary School Sub- jects 3	Intelligence and its measurement .. 6
Psych. of High School Subjects 3	Psych. of Element- ary School Sub- jects 3	Educational Ad- ministration ... 6	Psych. of Element- ary School Sub- jects 3
Educational Ad- ministration ... 6	Educational Ad- ministration ... 6	Electives .....10	Educational Ad- ministration ... 6
Electives..... 6	Electives 2	Thesis 6	Electives 2
Thesis 6	Thesis 6		Thesis 6
—	—	—	—
28	28	28	28

REQUIREMENTS IN EDUCATION FOR CANDIDATES FOR SPECIAL POSITIONS AND FOR DEGREE OF DOCTOR OF PHILOSOPHY

In addition to the requirements for the bachelor's degree in education elect 60 hours from the following and such other approved graduate courses as may be offered in the summer quarter.

	<i>Credits</i>		<i>Credits</i>
151. Educational Sociology	3	186. El. School Curriculum.....	5
152. Social Surveys of School Studies and Activities	2	191, 192. Educ. Administration.....	10
154. Junior High School.....	2	195. School Supervision	5
156. High School Organization.....	2	196-197-198. Intell. and its Meas... 6	
157. Extra-Curricular Activities	2	201-202-203. Prob. in Mod. Methods 6	
159. The High School Principal....	2	205. Org. and Adm. of Supervised Teaching.....	3
161. History of Education.....	5	206. Educational Statistics	5
163. History of American Education. 5		210. Methods of Educ. Research.....	1
164. The History of Secondary Edu. 3		212. Comparative Education	5
165. Problem Children	5	215. Junior College	3
170. Educational Psychology	5	232-233. Advanced Educ. Psych.....	4
172. Psychology of El. School Sub. ...	3	235. Surv. of Recent Educ. Lit.....	3
173. Psychology of High School Sub. 3		261-262. Seminar in Educ. Soc.....	10
174. Psych. Prob. of Vocational Ed. ...	3	271-272-273. Sem. in. Educ. Surv... 6	
176. Educational Guidance	5	275-276-277. Sem. in. Sec. Educ.... 6	
179. The Health Educ. Movement... 3		281. Sem. in Character Educ.....	2
181. Ed. Prob. of Adolescence.....	5	285-286-287. Sem. in Educ. Meas.... 6	

REQUIREMENTS FOR NORMAL AND LIFE DIPLOMAS

The University is authorized by law to issue diplomas valid in the State of Washington as teachers' certificates to teach in any high school or to superintend or supervise in any public school of the state, as described below:

The University Five-Year Normal Diploma, valid for a period of five calendar years from date of issue, is granted on the following conditions:

(a) Graduation from the University, (b) evidence of good health, such general scholarship and personal and moral qualities as give promise of success and credit in the teaching profession. Active professional interest in teaching is an important factor. The faculty of the School of Education may refuse to recommend candidates for the normal diplomas who fail to measure up to the foregoing standards. (c) Completion of the following courses in education:

	<i>Credits</i>		<i>Credits</i>
101. Intro. to Study of Educ.....	5	140. Psych. of Teaching Methods...	5
or		145. Practice Teaching	5
102. Elem. Educational Psychology..	5	160. Teachers' Course in Spec. Sub..	2
119. Secondary Education	3		

Graduates of the two-year courses of state normal schools who subsequently graduate from this University and who become candidates for the University five-year normal diploma must earn in this University at least 20 credits in education if registered in the School of Education; if regis-

tered in any other school or college in this University they shall earn 15 credits in education. The credits shall be distributed as follows:

	<i>Credits</i>		<i>Credits</i>
119. Secondary Education	3	100. Teachers' Course in Spec. Sub. 2	2
150. Educational Measurements	3	Electives in Education.....	5-10
152. Social Surveys of Education...	2		

Normal school graduates must qualify for the University normal diploma or life diploma to be eligible to teach in high schools. The diplomas from the normal schools qualify the holders for elementary schools only.

All graduates from the two-year course of state normal schools who receive the life diploma from this University shall earn here a minimum of 30 credits in education.

Persons who have received the master's or doctor's degrees from this University are eligible to the University five-year normal diploma provided they have fulfilled the specific normal diploma requirements.

Normal diplomas or life diplomas shall not be granted to aliens who have not completed their naturalization.

Normal diplomas or life diplomas shall be granted only to persons who have received degrees from the University of Washington.

TEACHING MAJORS AND MINORS FOR NORMAL AND LIFE DIPLOMAS

To be eligible for a normal diploma or a life diploma a candidate shall present (a) as a teaching major a subject now included in the curriculum of at least two of the larger public high schools of the state, and, (b) as a teaching minor either (1) a second teaching subject included in the curriculum of at least two of the larger public high schools of the state, or, (2) a minor definitely reinforcing the major. In unusual cases exception to this rule may be made by the faculty of the School of Education.

The following list of subjects only shall be considered acceptable as majors and minors in the School of Education and for the normal and life diplomas:

Bacteriology	Geography	Physical Education
Botany	Geology	for Women
Chemistry	German	Physics
Civics	History	Political Science
Commercial	Home Economics	Public School Art
Teaching	Journalism	Public School Music
Dramatic Art	Latin	Sociology
Economics	Mathematics	Spanish
English	Physical Education	Zoology
French	for Men	

Instead of fulfilling the academic major and minor requirements respectively in single subjects, science students may meet the group requirements already established in the College of Science.

Major students in one field of music may also minor in another field of music.

LIFE DIPLOMAS

The University life diploma is granted to candidates who possess the five-year normal diploma and who comply with the following requirements:

1. Complete at least one quarter of residence study subsequent to receiving the five-year normal diploma.
2. Earn during the undergraduate and graduate work a minimum total of 35 quarter hours in education, which may include a maximum of five hours in teachers' courses in special subjects.
3. Earn during the graduate quarter a minimum of 5 additional quarter hours in an academic subject which will normally be the academic major or minor.

4. Furnish satisfactory evidence of having taught successfully for at least twenty-four months.

5. The candidate's entire record as to scholarship, teaching experience, and moral and personal qualities must appear upon review by the department of education to be satisfactory.

6. The life diploma is not granted until candidates have taught at least one school year subsequent to receiving the normal diploma even though they have had twenty-four months of teaching experience.

7. No person is eligible to receive the degree, the normal diploma or the life diploma who has not been in residence at this University at least three quarters.

8. The service requirement of 24 months may not be satisfied by college or university service.

9. If the time which elapses between the receiving of the baccalaureate degree and the application for the life diploma exceeds six years two full quarters of residence work of at least 12 hours each shall be required for the life diploma.

10. The education courses shall be specified by the dean of the School of Education with the view to rounding out the student's professional equipment.

11. The academic courses shall be specified by the academic departments concerned.

12. Candidates who present a minimum of 35 quarter hours of education in their baccalaureate training shall include from two to six quarter hours in education courses numbered 200 or over for the life diploma.

NEW STANDARDS OF SCHOLARSHIP

Effective Beginning Autumn Quarter, 1928

The following standards of scholarship shall be required of candidates for the five year normal diploma and the life diploma:

- (a) C average in all university courses.
- (b) C average in education courses, with C or better in Education 145 (practice teaching).
- (c) C average in the minor teaching subject with no grade below C in required courses.
- (d) In the major teaching subject there shall be no grades less than C in required courses and with such general average in individual departments as shall be approved by the general faculty.

EDUCATION REQUIREMENTS IN OTHER STATES

Students who plan to teach in other states or in Washington schools that are on the accredited list of the Northwest Association of Secondary and Higher Schools should find out the requirements in education and arrange to meet them before making contracts to teach. Many states require more hours in education than Washington. The following are the requirements in several states: Arizona, 27 hours; California, 23 to 40 hours, also a year of graduate work; Colorado, 31 hours; Idaho, 15 hours; Illinois, 18 hours; Indiana, 28½ hours; Iowa, 21 hours; Kansas, 27 hours; Minnesota, 23 hours; Missouri, 27 hours; Montana, 17 hours; Nebraska, 18 hours; Nevada, 24 hours; New Mexico, 23 hours; North Dakota, 24 hours; Ohio, 36 hours; Oklahoma, 36 hours; Oregon, 22½ hours; Pennsylvania, 27 hours; South Dakota, 23 hours; Texas, 36 hours; Utah, 27 hours; Wisconsin, 22½ hours; Wyoming, 18 to 30 hours, depending upon the kind of certificate.

The North Central Association of Secondary Schools and Colleges requires 22½ hours of education to teach in any of the high schools accredited by that Association. That includes several hundred high schools in the

states of Illinois, Wisconsin, Michigan, Iowa, Missouri, Nebraska, Ohio, Indiana, North Dakota, South Dakota, Montana and Wyoming.

EDUCATION REQUIREMENTS IN CERTAIN SCHOOLS IN WASHINGTON

The Northwest Association of Secondary and Higher Schools has adopted the same requirement. This association includes the states of Washington, Oregon, Idaho, Montana and Utah. There are accredited by the Northwest Association about twenty-five of the better schools in Idaho, more than thirty in Montana, about thirty-five in Oregon, and about fifty in Washington and about ten in Utah. It is thus seen that students who take only the minimum of 20 hours in education are not eligible to teach in about fifty of our Washington high schools and nearly a hundred in immediately adjoining states. The schools in Washington include the high schools in Aberdeen, Arlington, Auburn, Bellingham, Buckley, Chehalis, Cheney, Clarkston, Cle Elum, Colfax, Davenport, Eatonville, Edmonds, Ellensburg, Everett, Ferndale, Hoquiam, Kelso, Kennewick, Kent, Longview, Monroe, Montesano, Mt. Vernon, Olympia, Pasco, Pomeroy, Prosser, Pullman, Raymond, Rosalia, Seattle, Sedro-Woolley, Snohomish, Spokane, Sprague, Sunnyside, Tacoma, Vancouver, Walla Walla, Waterville, Yakima.

REQUIREMENTS MADE FOR ACADEMIC MAJORS AND MINORS BY THE RESPECTIVE DEPARTMENTS

BACTERIOLOGY

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
101.	General Bacteriology	5	101.	General Bacteriology	5
102.	Sanitary Bacteriology	5	102.	Sanitary Bacteriology	5
103.	Pub. Hyg. Bacteriology.....	5	103.	Public Hygiene	5
104.	Serology	5		Bacteriology Electives	5
105.	Infectious Diseases	5			
106.	Clinical Diagnosis	5		Minimum total.....	20
	Bacteriology Electives	5			
	Minimum total.....	35			

BOTANY

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1.	Elementary Botany	5	1.	Elementary Botany	5
2.	Elementary Botany	5	2.	Elementary Botany	5
105,106,107.	Morph. and Evol.....	15	105,106,107.	Morph. and Evol.....	15
140,141,142.	General Fungi }.....	15		Minimum total	25
or					
143,144,145.	Plant Physiology }				
	Minimum total.....	40			

CHEMISTRY

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1-2.	Gen. Inorganic Chem. }.....	10	1-2.	Gen. Inorganic Chem. }.....	10
or			or		
21-22.	Gen. Inorganic Chem. }		21-22.	Gen. Inorganic Chem. }	
23.	Elem. Qualitative Anal.....	5	23.	Elem. Qualitative Anal.....	5
101.	Adv. Qualitative Anal.....	5	101.	Adv. Qualitative Anal.....	5
111.	Quantitative Analysis	5		and	
181-182.	Organic Chemistry	10	111.	Quantitative Analysis	
140-141.	Elem. Physical Chem.....	6	or		
	Minimum total.....	41	181.	Organic Chemistry	
			and		
			182.	Organic Chemistry	
				Minimum total.....	25

For the minor, students should have had at least high school physics; for the major they should have had a year of college physics. Grades of C or above must be obtained in all required chemistry courses; for a major one-third of the grades in upper division courses must be B or above.

CIVICS

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1.	Comparative Government	5	1.	Comparative Government	5
1.	General Economics	5	1.	General Economics	
1.	Introductory Sociology	5	or		
Elective in Political Science.....	15		1.	Introductory Sociology	
Elective in Econom. or Sociology....	5		Elective in Political Science.....	10	
	Minimum total.....	35		Minimum total.....	20

COMMERCIAL TEACHING

Following are the specific requirements for the academic major and minor in the School of Education and for major and minor recommendations for the normal diploma in commercial teaching. Both major and minor requirements are based upon the general pre-business curriculum of the first two years of the College of Business Administration.

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
Pre-business (First two years).....	90		Pre-business (First two years).....	90	
B.A. 81-82. Secretarial Training....	10		81-82. Secretarial Training	10	
83. Office Training and Practice....	3		102. Office Management	5	
102. Office Management	5		115. Business Correspondence	5	
103. Money and Banking.....	5		Education	25	
105. Business Organization	5		Approved Major (minimum).....	35	
115. Business Correspondence	5		Electives	10	
Education	25				
Approved Minor (minimum).....	20				
Approved Electives	12				

Students entering the School of Education from normal schools or other colleges than business administration shall be required to take:

	<i>Credits</i>		<i>Credits</i>
B.A. 15,16. Typewriting	0	7. Geog. Background of Ind.....	5
18,19. Shorthand	0	62,63,64. Principles of Accounting..	15
1,2. General Economics	10	81,82. Secretarial Training	10

Grades of B must be earned in 62, 63, 64, 81, 82.

DRAMATIC ART

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
5. Phonetics, Elementary Course.....	5		5. Phonetics, Elementary Course.....	5	
61,62. Dramatic Interpretation	10		61. Dramatic Interpretation	5	
101,102. Play-acting	6		101. Play-acting	3	
104. Theatre Workshop	4		104. Theatre Workshop	4	
127. The History of Theatre Art... 5			153. Representative Plays	3	
133. Staging of Shakespeare	3				
153. Representative Plays	3		Minimum total.....	20	
Minimum total.....	36				

For a major the student having advanced credit from other institutions must take at least one-half of the required 36 hours at the University of Washington.

For a minor the student having advanced credit from other institutions must take at least one-half of the required 20 hours at the University of Washington.

ECONOMICS

Students in the School of Education choosing economics either as their major or minor should consult with the executive officer of the department of economics or the professor in charge of advanced economics with regard to a proper selection of courses. An academic major in economics must include B.A. 1, 2, General Economics (10 credits), B.A. 160, Advanced Economics (5 credits), and at least 35 additional credits chosen from the following list; an academic minor in economics must include B.A. 1, 2, 160, and 5 additional credits selected from the following list:

	<i>Credits</i>		<i>Credits</i>
B.A. 60. Labor in Industry.....	5	131. Econ of Public Utilities.....	5
61. Soc. and Econ. Stand. of Living 3		159. Adv. Money and Banking.....	5
103. Money and Banking.....	5	161. Labor Problems	5
104. Econ. of Transportation.....	5	162. European Labor Problems.....	5
106. Econ. of Marketing and Adver. 5		164. Land Econ. and Real Estate..	5
108. Risk and Risk Bearing.....	5	165. Labor Legislation	3
121. Corporation Finance	5	166. Women in Industry.....	2
122. Principles of Investment.....	5	168. Devel. of Econ. Thought.....	5
124. Public Finance	5	171. Mod. Trends and Criticism....	5
129. Taxation	5	181. Econ. of Consumption.....	5

Minimum total for academic major—50 credits.

Minimum total for academic minor—20 credits.

ENGLISH

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
131. Chaucer		3	64, 65, 66. Literary Backgrounds	.....	9
170, 171. Shakespeare		6	170. Shakespeare	.....	3
127. Milton	}	3	162 or 163. American Literature	... ..	3
or				174 or 175. 19th Cent. Poetry	.....	3
144. Classic Period		3	148. The English Novel	.....	3
162 or 163. American Literature	...	3	189. Oral Reading	.....	3
174, 175. 19th Cent. Poetry	.....	6	88. Argumentation	}	..... 3 or 4
148, 149. The English Novel	.....	6	51-56. Advanced Comp.		
187. Victorian Prose	.....	3	117-119. Hist of Eng. Lang.		
189. Oral Reading	.....	3			
88. Argumentation					
51-56. Advanced Comp.	}	..... 3 or 4	Minimum total.....27 or 28		
117-119. Hist of Eng. Lang.					
Minimum total.....		36 or 37			

1. Note that the above courses are recommended. Substitutions in this list are allowed, however, if approved in writing by the department of English. English 1 and 2 cannot be offered for either a major or a minor. Among the recognized substitutions in these lists are English 67, 68, 69 for 163; 70, 71, 72 for 170, 171; 83 for 174; 84 for 175; and 81 or 136 for 137.

2. Senior Examination: As preparation for this examination English 191, 192, 193, major conference, is usually necessary.

3. All students taking an academic major in English will be given an examination in Composition on entrance into Education 160E. Those who fail in the examination will be required to take Educ. 160C before entering Education 160E, Teachers' Course in English. For a normal diploma, the student must pass Educ. 160E or Educ. 160EC and 160EL.

4. For either the major or the minor, it is required that a student make a grade of B in three-fourths of his upper division courses.

GEOGRAPHY

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1. Prin. of Economic Geog.	.....	5	1. Prin. of Economic Geog.	.....	5
1a, 1b. General Geology	.....	5	100. Econ. Geog. of N. America	....	5
11. Weather and Climate	.....	5	101. Indu. and Pol. Geog. of Europe	..	5
100. Econ. Geog. of N. America	....	5	108. Pol. and Econ. Geog. of Asia	..	5
101. Indu. and Pol. Geog. of Europe	..	5			
108. Pol. and Econ. Geog. of Asia	..	5	Minimum total.....		
112. Physiol. of United States	....	5	20		
Minimum total.....		35			

GEOLOGY

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1a, 1b. General Geology	.....	5	1a, 1b. General Geology	.....	5
2. General Geology	.....	5	2. General Geology	.....	5
21. Mineralogy	.....	5	21. Mineralogy	.....	5
120. Petrology	.....	3	Geography Elective	.....	5
123. Optical Mineralogy	.....	3	Minimum total.....		
124. Petrography	.....	4	20		
126. Economic Geology	.....	3			
181. General Paleontology	.....	5			
Geography Elective	.....	5			
Minimum total.....		38			

GERMAN

For the academic major or minor, students should have had at least two years of high school German. Its equivalent, if taken in college, is German 1, 2, 3. In addition thereto they are advised to take their major subject during their entire four-year college course. The minimum requirements are as follows:

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
5 to 12, 50a and 50b. Work, about	Second Year	10	5 to 12. Second Year German, about		10
108. Recent Writers	Reading	About 20	108. Recent Writers	}	6
119a, b. German Prose			119a, b. German Prose		
138. Modern Novels			138. Modern Novels		
138. Modern Drama			138. Modern Drama		
139a. Studies in Ger. Lit.			139a. Studies in Ger. Lit.		
151. Lessing	}	5	151. Lessing	}	5
180,181,182. 19th Cent. Lit.			180,181,182. 19th Cent. Lit.		
110. Advanced Composition and Phonetics			110. Advanced Composition and Phonetics		
121. Phonetics			121. Phonetics		
Minimum total..... 35			Minimum total..... 20		

Grades of C or above must be obtained in all required German courses; for a major one-third of the grades in upper division courses must be B or above.

All students who wish a major or a minor recommendation in German must present Education 160G, the teachers' course.

HISTORY

Academic Major. Minimum 43 or 44 credits, including course 1-2, of which 43 or 44 credits fifty per cent must be of upper division grade. Electives on advice of the head of the department.

Academic Minor. Minimum 20 credits, including 1-2. Electives on advice of the head of the department.

Prospective teachers of history as a major subject in high schools who desire the recommendation of the department of history must become acquainted with the elementary facts requisite for the teaching of all courses in history, civil government, economics and sociology taught in the high schools of the state and have specialized knowledge in their chosen fields. Courses in history, government, economics, and sociology should be selected with this aim in view. The courses covering the fields of high school history may be chosen from the following:

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1 and 2. Medieval and Modern		10	1-2. Medieval and Mod. Eur. Hist...		10
57-58-59. United States	}	9	143,144,145. Advanced U.S.....	}	9
or			or		
143-144-145. United States		9	71-72-73. Ancient History.....		9
71-72-73. Ancient History		9	or		
114. Renaissance	}	5	181. Europe Since 1870.....	}	5
or			Electives		
115. Reformation		5	Minimum total..... 20		
129. French Revolution	}	5			
or					
130. Europe, 1814-1870					
or					
131. Europe Since 1870		5 or 6			
149. National Development	}	5 or 6			
or					
168-164-165. Northwest. Hist.]					
Minimum total.....43 or 44					

MAJOR IN ALL FIELDS IN HOME ECONOMICS

	<i>Credits</i>		<i>Credits</i>
4. Food Preparation	3	111. Child Care	3
5. Food Selection and Preparation..	5	112-113. Cost. Des. and Const.....	10
7. H.E. Survey	2	116. Food Selection and Prep.....	5
8. Clothing	3	143. Home Furnishing	3
28. Textiles	5	144-145. Household Management.....	4
43. Home Sanitation	3	148. Home Management House.....	2
107-108. Dietetics	10	Minimum total..... 58	

Prerequisites: Painting, Sculpture and Design 9; Chemistry 1 and 2; Chemistry 135-136; Physiology 7.

Related courses that should be included: Physics 89-90; Architecture 1-2; Bacteriology 101; Nursing 5.

MAJOR AND MINOR IN TEXTILES AND CLOTHING

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
25. Textiles		5	25. Textiles		5
109. Elem. of Home Economics.....		5	112-113. Cost. Des. and Constr.....		10
112-113. Cost. Des. and Constr.....		10	143. Home Furnishing		3
130-131. Com. Clothing Construction.		6			—
133. Clothing, Costume Design.....		5	Minimum total.....		20
135. Millinery		3			—
143. Home Furnishing		3			—
		—			—
Minimum total.....		37			—

Prerequisites for either major or minor:

<i>Credits</i>		<i>Credits</i>	
P.S.D. 9. Art Structure.....	3	P.S.D. 9. Art Structure.....	3
169-170. Costume Design.....	4		

Students should have had at least one year of high school clothing.

JOURNALISM

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
51. News Writing		5	51. News Writing		5
101. Reporting		5	101. Reporting		5
120. Copy Reading		5	120. Copy Reading		5
150. Editorial Writing		5	150. Editorial Writing		5
		—			—
		—	Minimum total.....		20

Elect 15 credits from any of the following:

115. Elements of Publishing.....	3
130. Fundamentals of Advertising...	5
131. Display Advertising	5
138. History of Journalism.....	5
135. Publicity	2
170-171-172. Features	6
Educ. 100K. News. for Teachers....	2
250. Research	3-5
	—
Minimum total.....	35

LATIN

<i>Major</i>		<i>Credits</i>	<i>Minor</i>		<i>Credits</i>
1-2. Elementary Greek.....		10	Twenty credits selected from the following:		
Twenty-five credits selected from the following:			21. Cicero: De Senectute; Latin Literature (MacKail).....		5
21. Cicero: De Senectute; Latin Literature (MacKail).....		5	22. Catullus, Latin Lit. (MacKail).		5
22. Catullus, Latin Lit. (MacKail).		5	23. Vergil: Georgics and Bucolics; Latin Lit. (MacKail).....		5
23. Vergil: Georgics and Bucolics; Latin Lit. (MacKail).....		5	24. Sallust: Catiline and Jurgurtha; Latin Lit. (MacKail).....		5
24. Sallust: Catiline and Jurgurtha; Latin Lit. (MacKail).....		5	25. Ovid		5
25. Ovid		5	100. Livy		5
100. Livy		5	101. Horace		5
101. Horace		5	102. Tacitus		5
102. Tacitus		5	103. Plautus and Terence.....		5
103. Plautus and Terence.....		5	106. Syntax and Prose Comp.....		3
106. Syntax and Prose Comp.....		3	107. The Age of Cicero.....		3
107. The Age of Cicero.....		3	108. Vergil's Aeneid. Books VII.-XII.		3
108. Vergil's Aeneid. Books VII.-XII.		3	109. Pliny's Letters: Tacitus Germania		3
109. Pliny's Letters: Tacitus Germania		3	113. Roman Home Life and Religion		3
113. Roman Home Life and Religion		3	An examination planned to test the student's knowledge of the Latin ordinarily taught in a standard four-year high school.		
The Senior Examination.....		—			—
Minimum total.....		35	Minimum total.....		20

The prerequisite for any work toward either a major or a minor in Latin is three and one-half years of high school Latin or its equivalent. Courses 1-2, 3, 4, 5, 6 do not count toward a major or a minor.

MATHEMATICS

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
4. Plane Trigonometry	5	4. Plane Trigonometry	5
5. College Algebra	5	5. College Algebra	5
6. Analytical Geometry	5	6. Analytical Geometry	5
107,108,109. Diff. and Integral Calc. 15	15	Electives in Mathematics.....	5
Electives in Mathematics.....	6		—
Minimum total.....	36	Minimum total.....	20

The above schedule is based upon the assumption that the student has had one and one-half years of algebra, and one year of plane geometry, or one year of plane and one-half year of solid geometry before entering the University. If a student has not had the third one-half year of algebra in high school, mathematics 1 should be elected during the freshman year in addition to above schedule. If the student has not had solid geometry he should either take Math. 2 in addition to the above schedule or among his electives.

Grades of C or higher must be earned in mathematics classes by all students who select mathematics as their academic major or minor subject.

MUSIC

Prerequisite: Four years of piano study for either major or minor.

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
6. Music History	5	(Theoretical and Applied)	
13. Music Appreciation	5	109. Counterpoint	5
16. Ear Training and Melody Writ..	5	112. Music Form	5
51. Elementary Harmony	5	117. Elementary Composition	5
53. Intermediate Harmony	5	18,19,20. Applied Music	} 9
56. School Music	5	68,69,70. Applied Music	
101. Advanced Harmony	5	118,119,120. Applied Music]	
113,114. Music Education	4		—
154,155,156. Music Supervision.....	6		—
Minimum total.....	45	Minimum total.....	24

The following courses may be selected as a minor in music by students in Liberal Arts or Science:

13. Music Appreciation	5
16. Ear Training and Melody Writ..	5
51. Elementary Harmony	5
53. Intermediate Harmony	5
56. School Music	5
113,114. Music Education	4
or	or
Applied Music	6
Minimum total.....	29 or 31

PHYSICAL EDUCATION FOR MEN

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
80. Introd. to Physical Education..	2	80. Introd. to Physical Education..	2
90. Personal and General Hygiene..	2	90. Personal and General Hygiene..	2
110. Athletic Tr. and First Aid....	2	110. Athletic Tr. and First Aid....	2
131. Kinesiology	3	141. Physical Education Methods....	3
132. Individual Gymnastics	3	142. Physical Education Methods....	3
133. Individual Gymnastics	3	143. Physical Education Methods....	3
141. Physical Education Methods....	3	Physical Education Electives.....	5
142. Physical Education Methods....	3	Two courses of which must be of the	
143. Physical Education Methods....	3	Ath. Coaching Methods	—
145. Principles of Physical Educ....	3		—
150. Phys. Educ. and Administration	3	Minimum total.....	20
153. Meth. in. Health Education....	2		
Physical Education Electives.....	3		
Minimum total.....	35		

PHYSICAL EDUCATION FOR WOMEN

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
101-102. Survey of Gymnastics....	6	111. Rhythms and Dram. Games...	3
103-104. Clog, Character Dancing...	4	112. Elem. Athletic Games.....	3
105-106. Meth. of Folk Dancing...	4	113. Org. and Adm. of Playgrounds.	3
111. Rhythms and Dram. Games...	3	154-155-156. Natural Dancing.....	6
112. Elem. Athletic Games.....	3	170-171-172. Methods in Teaching Bas-	6
113. Org. and Adm. of Playgrounds	3	ketball' and Baseball.....	
122. Kinesiology	3		
131-132-133. Corrective Gymnastics...	0		
152. Adm. of Phys. Educ.....	2		
154-155-156. Natural Dancing.....	6		
174-175. Teachers' Course in Swim'g.	2		
180. Campcraft	2		

Elect six credits from the following:

167. Meth. in Teaching Hockey....	3
169. Meth. in Teaching Tennis and Archery	3
170-171-172. Meth. in Teaching Bas- ketball and Baseball.....	6

Required Supplementary Sciences:

101,110,111,112. Gen. Human Anat..	3
110,111,112. Special Dem.	3

Anatomy and physiology may be counted as an academic minor.

Required supplementary courses: 15 credits to be selected from sociol-ogy, dramatic art and zoology.

Required courses in education, see page 127.

Education 145, Practice Teaching, additional in all cases except by exemption by the dean of the School of Education and head of the depart-ment of physical education.

PHYSICS

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
1-2,3. General Physics } or 4-5,6. General Physics }	15	1-2,3. General Physics } or 4-5,6. General Physics }	15
101. Introd. to Mod. Theories.....	5	Physics Electives*	5
Physics Electives* (restricted).....	15	Minimum total.....	20
Minimum total.....	35		

*Courses numbered below 200.

A teaching major or minor in physics should be supported by at least a year of college mathematics.

To be recommended to teach physics, a minimum of 25 hours, with an average grade better than C is required.

For recommendation for normal diploma with physics as a major or a minor, the requirement is the same as the above with an average grade better than C.

POLITICAL SCIENCE

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
1. Comparative Government	5	1. Comparative Government	5
101. Constitutional Govt. in the U.S. and in State of Washington.	2	101. Constitutional Govt. in the U.S. and in State of Washington.	2
151. American National Government.	5	151. American National Government.	5
161. Municipal Government	5	161. Municipal Government	5
Electives in Political Science.....	18	Electives	3
Minimum total.....	35	Minimum total.....	20

PUBLIC SCHOOL ART

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	
5,6,7. Drawing	9	No minor offered.	
9,10,11. Art Structure	9		
53,54,55. Art Structure	9		
56. Drawing and Painting.....	3		
101,102. Public School Art.....	4		
105,106. Art Structure:Lettering and Posters	6		
151. Art Structure	3		
161. Life	3		
Minimum total.....	46		

ROMANIC LANGUAGES AND LITERATURE

The number of credits required for a major or a minor will depend upon the high school preparation of the student. For this reason the requirements for a major, based upon a preparation of two years in college, or three in high school, amount to less than 35 credits, while for a minor they amount to more than 20 credits.

FRENCH

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
41. Phonetics	3	41. Phonetics	3
101,102,103. Composition and Conver.	9	101,102,103. Composition and Conver.	9
158,159. Advanced Syntax	4	158,159. Advanced Syntax	4
Educ. 160T. Teachers' Course in French	2	Educ. 160T. Teachers' Course in French	2
Nine or ten credits from any of the following:		Nine or ten credits from any of the following:	
34-35-36 or 134-135-136. General Romanic Literature	9	34-35-36 or 134-135-136. General Romanic Literature	9
118,119,120. Survey of French Lit..	9	118,119,120. Survey of French Lit..	9
*121,122,123. French Novel	9	*121,122,123. French Novel	9
*124,125,126. The Short Story.....	9	*124,125,126. The Short Story.....	9
*131,132,133. Lyric Poetry	6	*131,132,133. Lyric Poetry	6
*141,142,143. The French Drama....	9	*141,142,143. The French Drama....	9
*151,152,153. Hist. of the French Lit. of the 19th Century.....	9	*151,152,153. Hist. of the French Lit. of the 19th Century.....	9
154,155,156. Contemp. French. Lit..	9	154,155,156. Contemp. French. Lit..	9
*161,162,163. 18th Century Lit.....	6	*161,162,163. 18th Century Lit.....	6
*171,172,173. 17th Century Lit....	6	*171,172,173. 17th Century Lit....	6
Minimum total.....	27	Minimum total.....	27

A total of not more than five credits may be elected from courses which are conducted in English; at least four of the nine credits must be elected from any of the courses conducted in French.

*Conducted in French.

SPANISH

<i>Major</i>	<i>Credits</i>	<i>Minor</i>	<i>Credits</i>
101,102,103. Adv. Composition	9	101,102,103. Adv. Composition	9
159. Advanced Syntax	3	159. Advanced Syntax	3
Educ. 180U. Teach. Course in Span..	2	Educ. 180U. Teach. Course in Span..	2
Nine credits from any of the following:		Nine credits from any of the following:	
34-35-36 or 134-135-136. General Romanic Literature	9	34-35-36 or 134-135-136. General Romanic Literature	9
118,119,120. Survey of Span. Lit..	6	118,119,120. Survey of Span. Lit..	6
121,122,123. The Novel	9	121,122,123. The Novel	9
141,142,143. Spanish Drama	9	141,142,143. Spanish Drama	9
184,185,186. Spanish American Lit..	9	184,185,186. Spanish American Lit..	9
Minimum total.....	23	Minimum total.....	23

School of Education

SOCIOLOGY

<i>Major</i>	<i>Credits</i>
1. Introductory Sociology }	5
or	
150. General Sociology }	5
55. Human Ecology }	5
or	
61. The Small Town }	5
or	
65. The City }	5
66. Group Behavior	5
Electives from courses offered in the department after consultation regarding the special field of interest.....	20
Minimum total.....	<u>35</u>

<i>Minor</i>	<i>Credits</i>
1. Introductory Sociology }	5
or	
150. General Sociology }	5
55. Human Ecology }	5
or	
61. The Small Town }	5
or	
65. The City }	5
66. Group Behavior	5
Electives from courses offered in the department after consultation regarding the special field of interest.....	10
Minimum total.....	<u>25</u>

ZOOLOGY

<i>Major</i>	<i>Credits</i>
1-2. Elements of Zoology.....	10
or	
53-54-55. Physiology	15
Zoology Electives	20 to 25
Minimum total.....	<u>35</u>

<i>Minor</i>	<i>Credits</i>
1-2. Elements of Zoology.....	10
or	
53-54-55. Physiology	15
Zoology Electives	5-10
Minimum total.....	<u>20</u>

COURSES OF STUDY

For description of courses offered by the School of Education, see Departments of Instruction section.

LIBRARY SCHOOL

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago) ; LL.D. (Northwestern) . . . *President of the University*
Thomson, David, B.A. (Toronto) *Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale) *Assistant Dean of Faculties*

THE FACULTY, 1928-1929

Henry, William Elmer, A.M. (Indiana) *Professor of Library Science; Dean of the Library School*
Smith, Charles Wesley, A.B., B.L.S. (Illinois) *Professor of Library Science*
Worden, Ruth, B.A. (Wellesley), Certificate in Library Science (Wisconsin) *Assistant Professor of Library Science*
Alfonso, Marie Smart, A.B. (Nebraska), B.S. in L.S. (Washington) *Instructor in Library Science*
Putnam, Marguerite E., B.A., B.S. in L.S. (Washington) *Instructor in Library Science*
Andrews, Sln, Certificates in Library Science (Wisconsin and Western Reserve) *Assistant in Library Science*

GENERAL STATEMENT

The Library School offers professional education in librarianship.

Being an educational institution, a library should not be entrusted to persons of merely elementary acquirements. Its conduct requires a larger and more comprehensive educational equipment and outlook than can be had with less than that signified by the bachelor's degree.

The technical curriculum extends through three quarters—short in comparison with the academic curriculum, because the general educational equipment of the librarian is of larger significance than the technical education, but neither is sufficient without the other.

Graduates of the School are competent to take charge of a small public library or to take an assistant's place in any department of the larger libraries. After a reasonable experience in either of these positions, they have shown themselves competent to conduct libraries of medium size with excellent success.

ADMISSION

Admission is granted as follows:

1. To graduate students who hold the Baccalaureate degree from any college or university of good standing, whose undergraduate work in either or both high school and college has included at least twenty college credits each in German and French. Other modern languages may be substituted with the consent of the dean.
2. To students who have qualified for senior standing in the College of Liberal Arts or in the elective curricula in the College of Science, having earned 145 credits, including twenty college credits each in German and French, and ten credits in military science, or physical education, and including all required work. However, students who lack not more than fifteen credits of senior standing (including the languages required above) may be admitted with permission of the dean, but such students must complete the 180 plus 10 hours required for graduation.

Initial admission to classes in the Library School is permitted only at the beginning of the college year in October except by special permission of the Dean of the Library School. No one may be admitted to any course in the Library School curriculum except as an auditor, unless he is expecting to complete the entire curriculum.

EXPENSES

For information on general University fees and expenses applicable to all students, see General Information section, page 60.

Loan Fund.—By joint action of the Puget Sound Library Club and the Alumni Association of the Library School, a library school student loan fund has been established, to be known as the University of Washington Library School Loan Fund. This fund is available to students in the Library School who have been in attendance for at least a quarter and have made a satisfactory record. Its purpose is largely to meet emergency needs of the students, rather than to pay expenses through the year. It is administered by a committee of three of which the dean of the school is chairman. Applications to borrow from the fund should be made to him. The fund has been raised by voluntary contributions from the members of the club and the alumni and is open to contribution at any time.

DEGREES

On completion of the curriculum in library science (45 credits), either as a fourth year (or major) following three years in the College of Liberal Arts or the College of Science, or as a fifth (or graduate) year, the degree of Bachelor of Science in Library Science is granted.

ADVISORY SUGGESTIONS

The student entering the school should be a typist of accuracy and fair speed.

Practical service in a library prior to entering the library school is extremely advantageous to the student. We advise (and shall later probably require) that each student shall have had before entering the school at least one month's actual experience in a well conducted library. We shall be glad to assist any candidate for entrance to obtain this practical experience.

In preparing for the Library School a student should maintain an average of B, as a strong foundation is essential for successful library service. Students not making an average of B in the Library Science courses may at the discretion of the faculty of the Library School be dropped from the Library School.

As no one with serious physical defects or ill health can readily secure a position in library service, such persons should not ask admission to the School.

Persons beyond thirty years of age are advised not to enter the school unless they have already had experience in library service.

The Dean of the Library School is the adviser for all pre-library school students, and electives are to be chosen only with his approval.

CURRICULA

I. LIBERAL ARTS

A suggested curriculum for pre-library students entering from the College of Liberal Arts, and an outline of the year's work in the Library School is given below. The courses are arranged in the normal order of precedence. For those who take the library curriculum in the senior year no academic major is required as the technical training of the Library School constitutes this major. Academic subjects marked with the double

dagger are required; those with a single dagger are strongly recommended; others are suggested electives. All Library School subjects are required.

FIRST YEAR

<i>Credits</i>	<i>Credits</i>
English †1-2. Composition..... 10	Music 13. Appreciation..... 5
70, 71, 72. Shakespeare 9	*Mod. Lang. †1-2-3. French or Germ... 15
64, 65, 66. Lit. Backgrounds 9	Psychology †1. General..... 5
*History 1-2. Medieval and Modern... 10	Lib. Arts †1. Intro. to Mod. Thought 5
5-6. Eng. Pol. and Social..... 10	Arch. 3. Appreciation..... 2
*Science. Bot., Geol. or Zool..... 10	*Latin †11, 13. Rom. Civ. and Lit.... 10

SECOND YEAR

<i>Credits</i>	<i>Credits</i>
*Mod. Lang. †Fourth qr. of foreign language previously taken..... 5	*Pol. Sci. †1. Comparative Gov't.... 5
Begin other lang. required by Library School 10	*Sociology †1. Introduction..... 5
*History †57-58-59. United States... 9	62. Play and Leisure Time..... 3
*Greek †15-16. Civilization..... 10	*Econ. †1. Introduction..... 5
Anthropology 51. Evol. of Civ..... 5	7. Geog. Background of Industry.. 5
Zoology 16. Evolution 2	61. Social and Econ. Standards... 5
17. Eugenics 2	Lib. Arts. †11. Intro. to Fine Arts.. 5
	*Oriental Studies 50, 51, 52. Orient. Lit. 10

THIRD YEAR

<i>Credits</i>	<i>Credits</i>
*Mod. Lang. Complete Library School Requirement 10	Oriental Studies 114, 115, 116. Hist. of Religion 9
Phil. †1, 2 or 3. Introduction..... 5	120. Prob. Eastern Asia and Pac... 5
History. 125. Turkey and Near East.. 5	English †134. Reformation in Eng... 3
†130. Europe, 1814-1870 5	†137. 19th Cent. Prose..... 3
†131. Europe Since 1870 5	†164, 165, 166. Am. Lit. from 1870 9
Pol. Sci. 122. Foreign Affairs 3	174, 175. 19th Cent. Poetry..... 6
123. Intern. Relations 3	*Sci. Phys. 1-2 or Chem. 1-2..... 10
156. European Gov. & Pol. Insts... 3	German †106, 108. Ger. Lit. in Tr... 5
161, 162, 163. Governments 15	Rom. Lang. †118, 119, 120. Survey Fr. Lit. 9
†101. Constitutional Gov. in U.S. and Washington 2	†181, 182, 184. Ital. Lit. in Tr... 6
	Scand. Lit. 109, 110, 111. Mod. Auth. 3
	180, 181, 182. Recent Lit..... 6

FOURTH YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
175. Classif. & Catalog. 4		184. Classif. & Cat.... 3		191. Classif. & Catalog. 4	
177. Reference 2		185. Reference 2		193. Reference 2	
178. Hist. of Books... 2		187. Libr. Organization. 2		197. Library Admin. .. 2	
179. Book Selection ... 3		188. Book Selection ... 2		196. Book Selection.... 2	
189. Children's Work ... 2		*183. Children's Lit. ... 2		*194. Subject Bibliog... 2	
		*186. Practice 3-5		or	
		192. Library Economy... 2		*199. Adv. Child. Work 2	
				195. Practice 3	
				198. Special Lectures... 1	

¹ This requirement may be satisfied by the first course in each of two of these (economics, sociology or political science), or the first course in any one of them together with five credits in another course for which the one taken first is a prerequisite.

² These requirements may be satisfied in high school or in college.

³ The Library School requires 20 hours each of two modern foreign languages, French and German, in either high school or college.

⁴ Students who have taken, or plan to take three or more years of ancient language may omit this requirement. Classical language requirement may be satisfied by either Latin or Greek.

* If Lib. Sci. 183 is elected, sign for Lib. Sci. 186 Practice. 3 hours.

° Elect 194 or 199.

Library School

II. SCIENCE

The following is a curriculum suggested for pre-library students in the College of Science. For those who take the library curriculum in the senior year no academic major is required as the technical training of the Library School constitutes this major. Subjects marked with the double dagger are required. The complete Library School curriculum, which constitutes the fourth year, is required.

FIRST YEAR

	<i>Credits</i>		<i>Credits</i>
*Mod. Lang. †1, 2, 3. French or Ger.	15	Zoology †1, 2. Elementary	10
Astronomy 1. General	5	Lib. Arts. 1. Intro. to Mod. Thought	5
Psychology †1. Introduction	5	Chem. †1-2. General	10

SECOND YEAR

	<i>Credits</i>		<i>Credits</i>
*Mod. Lang. †Fourth quarter of foreign language previously taken	5	Zoology †16. Evolution	2
Begin other foreign language required by Library School	10	17. Eugenics	2
Pol. Sci., Econ. or Soc. 1. Intro	5	History 1-2. Mod. and Medieval	10
English †1-2. Composition	10	Geology †1, 2. General	10
		Music 13. Appreciation	5

THIRD YEAR

	<i>Credits</i>		<i>Credits</i>
*Mod. Lang. †Complete Library School Requirement	10	Physics †89-90. Physics of the Home	10
Botany †1, 2. General	10	History 130. Europe, 1814-1870	5
Lib. Arts. 11. Intro. to Fine Arts	5	131. Europe, since 1870	5
Pol. Sci. †101. Const. Gov. in U.S. and Washington	2	English 136, 137. 19th Cent. Prose	6

COURSES OF STUDY

For the work of the lower division and for courses of study the sections of the catalogue relating to the Colleges of Liberal Arts and Science and Departments of Instruction should be consulted.

³ The Library School requires 20 hours each of two modern foreign languages, French and German, in either high school or college.

COLLEGE OF BUSINESS ADMINISTRATION

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago) ; LL.D. (Northwestern) ..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Cox, William E., A.M. (Texas).....*Professor of Business Administration; Dean of the College of Business Administration*
Burd, Henry A., Ph.D. (Illinois).....*Professor of Business Administration*
Coon, Shirley J., Ph.D. (Chicago)....*Professor of Economics and Business Administration*
Dakan, Carl S., B.S. (Missouri).....*Professor of Business Administration*
Frame, Hugh C., Ph.D. (Harvard).....*Professor of Business Administration*
Gould, James B., A.M. (Harvard).....*Professor of Maritime Commerce*
Leib, Karl E., J.D. (Stanford).....*Professor of Business Administration*
Preston, Howard H., Ph.D. (Iowa).....*Professor of Business Administration*
Skinner, Macy M., Ph.D. (Harvard).....*Professor of Business Administration*

ASSOCIATE PROFESSORS

Eldred, Wilfred, Ph.D. (Harvard).....*Associate Professor of Business Administration*
Gregory, Homer E., A.M. (Chicago).....*Associate Professor of Business Administration*
McMahon, Theresa, Ph.D. (Wisconsin).....*Associate Professor of Economics*
Renner, George T. Jr., Ph.D. (Columbia).....*Associate Professor of Geography*
Smith, Harry E., Ph.D. (Cornell).....*Associate Professor of Business Administration*

ASSISTANT PROFESSORS

Ashley, Paul P., LL.B. (Washington).....*Assistant Professor of Business Administration*
McIntyre, Harry J., M.B.A. (Washington)..*Assistant Professor of Mechanical Engineering*
Rice, Paul Hildreth, Lieutenant Commander, U.S.N.....*Assistant Professor of Naval Science and Tactics*

LECTURERS

Davis, Pearce C., C.P.A.....*Lecturer on Accounting*
Draper, Oscar E., M.Acct. (Vories Business College)..*Lecturer on Business Administration*
Folsie, Francis Patrick, B.S. (Harvard).....*Lecturer on Business Administration*
McConahey, James M., LL.B. (Northwestern), C.P.A.....*Lecturer on Accounting*
Robertson, James P., C.P.A.....*Lecturer on Accounting*
Truax, Arthur R.....*Lecturer on Business Administration*

INSTRUCTORS

Calhoun, Charles E., M.A. (Washington).....*Instructor in Business Administration*
Graves, L. Wallace, M.A. (California).....*Instructor in Business Administration*
Miller, Charles, M.B.A. (Washington).....*Instructor in Business Administration*
Purdy, Henry L., M.A. (Washington).....*Instructor in Business Administration*
Van de Walker, Frank C., M.B.A. (Washington)....*Instructor in Business Administration*
Hamack, Frank H., LL.B. (Georgetown).....*Associate in Business Administration*
Grant, Ruth A., B.B.A. (Washington).....*Associate in Business Administration*

COOPERATING FACULTY

Padelford, Frederick M., Ph.D. (Yale)..*Professor of English; Dean of the Graduate School*
Moritz, Robert Edouard, Ph.D. (Nebraska), Ph.N.D. (Strassburg).*Professor of Mathematics*
Benson, Henry Kretzer, Ph.D. (Columbia).....*Professor of Chemical Engineering*
Bolton, Frederick Elmer, Ph.D. (Clark)....*Professor of Education; Dean Emeritus of the School of Education*
Raftt, Effie Isabel, A.M. (Columbia).....*Professor of Home Economics*
Smith, Stevenson, Ph.D. (Pennsylvania).....*Professor of Psychology*
Martin, Charles E., Ph.D. (Columbia).....*Professor of Political Science*
McMahon, Edward, A.M. (Wisconsin).....*Professor of American History*

GENERAL STATEMENT

The College of Business Administration seeks to give the student:

1. That broad cultural training which every well educated man must have.
2. A knowledge of the fundamentals of modern business principles upon which any business man, regardless of his particular field, must build.
3. A keen specialized training in some one major phase of business.
4. A contact with actual business as it is conducted.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning registration and expenses, may be found on pages 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

GRADUATION

The College of Business Administration is a professional college. Its graduates receive the degree of bachelor of business administration (B.B.A.) The degree of bachelor of business administration is conferred on any student who has fulfilled the entrance requirements and who presents 190 credits in subjects required or approved by the faculty of the College of Business Administration.

The degree of master of arts (M.A.) or master of business administration (M.B.A.) is conferred on students who complete in a satisfactory manner an approved course ordinarily requiring three quarters of advanced work beyond that required for the bachelor's degree. The degree of master of arts implies a major in business administration or economics and a minor in some related subject. The degree of master of business administration is a more technical degree, and implies that a candidate's work has been confined to business administration or economics. Before being recognized as a candidate for an advanced degree a student must appear before a committee appointed by the dean of the Graduate School, which determines the student's fitness for such work and confers with him upon his proposed course of study.

Students entering from other colleges must satisfy not only the general requirements of the University but also the requirements of the College of Business Administration.

Not less than three-fourths of the credits required for graduation must be earned with grades of A, B, or C.

CURRICULUM

All students in the College of Business Administration must have their selection of courses approved each quarter by a member of the college faculty. The college requires the following courses:

FIRST YEAR

	<i>Credits</i>
B.A. 1, B.A. 2. General Economics.....	10
B.A. 7. Geographic Background of Industry.....	5
English 1. Written and Oral English.....	5
English 37. Argumentation	5
*Physics (10 hours) or Chemistry (10 hours) or Mathematics (10 hours) or Foreign Language (10 hours)**.....	10
‡Approved electives	10

SECOND YEAR

B.A. 54, 55, 56. Business Law.....	9
History 57-58-59. History of the United States.....	9
B.A. 62, 63, 64. Accounting.....	15
‡Approved electives	12

THIRD YEAR

B.A. 60. Labor in Industry.....	5
B.A. 115. Business Correspondence	5
†B.A. 103. Money and Banking, or	
†B.A. 106. Economics of Marketing and Advertising, or	
†B.A. 108. Risk and Risk Bearing.....	10
Political Science	5
‡Approved electives	20

FOURTH YEAR

B.A. 160. Advanced Economics.....	5
‡Approved electives	40

The requirements of the first two years are sufficiently broad to establish a foundation for the profession of business, regardless of the particular field in which the student may later be interested.

No student is allowed to enter the junior-senior courses in the College of Business Administration unless he has reached junior standing and satisfied the prerequisites to these courses. The prerequisites have been established after the most careful consideration of the standard of efficiency and performance aimed at in the course and the educational value of the course for the student. To admit students who have not completed the carefully arranged prerequisites would not only imperil the quality of the work of the instructor but also make it impossible for the students to get the full benefit of the course. The college realizes that certain just claims to exceptions from the above rules could be presented, and such exceptions can be granted to students whose maturity and extended experience in economic affairs of a suitable nature make it just and reasonable. Proof of these experiences and qualifications will be passed on by the dean of the College of Business Administration and the committee on graduation.

* Students majoring in maritime commerce are required to take B.A. 40 (ship operation and B.A. 52 (navigation). This satisfies the requirement and they are therefore not required to take 10 hours of physics, chemistry, mathematics, or foreign language.

** Students electing foreign language to satisfy this requirement who have not had 2 units of the language chosen in high school must take 20 hours in the college, ten hours of which will count as electives.

‡ Of the total 82 hours of electives, 10 must be chosen from Philosophy, Psychology, Sociology or Political Science. Of the approved electives in the junior and senior years at least 25 hours must be in the upper division courses in economics and business administration.

† Students are required to take 10 hours selected from the three courses, B.A. 103, B.A. 106, B.A. 108.

The junior and senior years are largely reserved for the student's selected field of business interest. Each student or group of students is guided and assisted by the instructor designated for that department of work, under the general direction of the dean of the College of Business Administration.

MAJORS IN ECONOMICS IN THE COLLEGE OF LIBERAL ARTS

Students in the College of Liberal Arts choosing economics as their major, or in the School of Education choosing economics as their minor, should consult with the head of the department of economics or the professor in charge of advanced economics with regard to a proper selection of courses. A major in economics must include B.A. 1, 2, 160, and at least 35 additional hours chosen from the following list; a minor in economics must include B.A. 1, 2, 160, and 5 additional hours selected from the following list:

	<i>Credits</i>		<i>Credits</i>
B.A. 60. Labor in Industry.....	5	129. Taxation	5
61. Social and Economic Standards of Living	3	131. Economics of Public Utilities.	5
103. Money and Banking.....	5	159. Advanced Money and Banking.	5
104. Economics of Transportation..	5	161. Labor Economics	5
106. Economics of Marketing and Advertising	5	162. European Labor Problems....	5
108. Risk and Risk Bearing.....	5	164. Land Economics and Real Est.	5
121. Corporation Finance	5	165. Labor Legislation	3
122. Principles of Investment.....	5	166. Women in Industry.....	2
124. Public Finance	5	168. Development of Econ. Thought.	5
		171. Modern Trends and Criticism.	5
		181. Economics of Consumption....	5

PRE-LAW CURRICULUM—THREE-YEAR COURSE IN BUSINESS ADMINISTRATION

Combined Six-year Course in Business Administration and Law.—It is possible to obtain the degree of Bachelor of Business Administration and Bachelor of Laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the Business Administration course. Students planning to take advantage of the combined six-year curriculum may omit Business Law (B.A. 54, 55, 56) and substitute therefor first-year law courses after entrance to the Law School. To have the benefit of this combined course, students must maintain a uniformly good record and must in the first three years earn 144 business administration credits, together with the 10 credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Service, if necessary.

At the beginning of the fourth year, if a student has earned 144 credits and 10 credits of required military science or physical education, he may enter the School of Law and there earn 36 credits which will be counted toward his Bachelor of Business Administration degree. He will be granted the Bachelor of Business Administration degree at the end of the fourth year, or as soon as he completes the required work above specified and 36 credits in the School of Law, making a total of 190 credits for graduation in business administration. The degree of Bachelor of Laws will be conferred upon completion of his work in the Law School. In exceptional cases where the student lacks part of the 144 business administration credits the dean of the Law School may, upon written petition, permit registration in the Law School, the necessary credits to satisfy the combined degree to be completed subsequently.

Selection of Major.—In the 144 business administration credits must be included a major of at least 25 upper division credits, together with all the specified requirements of the college. The major must be selected by the student taking the combined six-year course upon acquiring junior standing, pursuant to the regulations relating to majors prescribed for the College of Business Administration. These are given below.

SUGGESTED COURSES FOR MAJORS IN COLLEGE OF BUSINESS ADMINISTRATION

Either before or in the third quarter of the sophomore year each student in the College of Business Administration will be required to select a major field. He is then placed in contact with an instructor working in that field who will advise him.

The courses suggested for majors are in the following fields:

- | | |
|---|---|
| (a) Economics | (h) Marketing, Merchandising
and Advertising |
| (b) Accounting | (i) Transportation and Mari-
time Commerce |
| (c) Business Finance | (j) Labor |
| (d) Commercial Teaching and
Secretarial Training | (k) Public Utilities |
| (e) Foreign Trade and Con-
sular Service | (l) Statistics |
| (f) Management | (m) General Business |
| (g) Insurance | |

Students majoring in these fields must:

1. Satisfy the general requirements of the University and the College of Business Administration outlined on page 145;
2. Take certain required fundamental courses in the major field unless otherwise indicated below;
3. Take a minimum of 25 upper division credit hours in the major field;
4. Have their selection of courses approved by their major professor.

The following outlines of work in the several major fields are suggestive only. With the exception of the specifically required courses, arrangements may be made to suit individual needs. The electives should be chosen after consultation with the major professor.

(A) ECONOMICS

Students in the College of Business Administration selecting economics as their major must elect 25 hours from the following list:

	<i>Credits</i>		<i>Credits</i>
B.A. 61. Social and Economic Standards of Living.....	3	181. Economics of Public Utilities..	5
*108. Money and Banking.....	5	159. Advanced Money and Banking.	5
104. Economics of Transportation..	5	161. Labor Economics	5
*106. Economics of Marketing and Advertising	5	162. European Labor Problems.....	5
*108. Risk and Risk Bearing.....	5	164. Land Economics and Real Est.	5
121. Corporation Finance	5	165. Labor Legislation	3
122. Principles of Investment.....	5	166. Women in Industry.....	2
124. Public Finance	5	168. Development of Econ. Thought	5
129. Taxation	5	171. Modern Trends of Criticism..	5
		181. Economics of Consumption....	5

There are no specifically required courses other than those listed in the general requirements of the College (page 145).

(B) ACCOUNTING

Three groups of courses are offered in accounting to fit the student for business positions. The first group consisting of 62, 63, and 64, required of all majors in business administration, is devised for the purpose of

* If not selected to fulfill the third year general college requirement.

training the prospective business man in the fundamentals of accounting principles as well as in the interpretation of the ordinary accounts and financial statements. The second group consists of B.A. 110, 111 and 112, which are desirable pre-professional courses that prepare the student in the fundamentals of practical technique. The third group consists of B.A. 154, 155, 156, 157, 184 and 191 which are professional in nature, devised to fit the student for examination for the certificate as a public accountant and for general accounting practice. For students in other colleges a general survey course, B.A. 65, is offered.

A major is required to take 25 hours selected from upper division courses in accounting.

The following courses are suggested as electives:

<i>Credits</i>		<i>Credits</i>	
Math. 13. Elementary Statistics	5	126. Commercial Credits	5
B.A. 59. Graphic and Tabular Analysis	5	130. Industrial Analysis and Control	5
102. Office Management	5	138. Market Analysis	5
105. Business Organization	5	163. Industrial Management	5
107. Traffic Management	5	169. Principles of Real Estate	5
121. Corporation Finance	5	172. Executive Technique	5
122. Principles of Investment	5	196. Research in Management	2-5
124. Public Finance	5	Law 187-8. Law of Private Corpor'ns.	6

(C) BUSINESS FINANCE

A major in Business Finance:

(a) Should take Mathematics 11 and 13, either to satisfy the freshman requirement in mathematics, or as electives.

(b) Must take B.A. 103, Money and Banking (5), to be taken preferably either in the third quarter sophomore year or first quarter junior year, and B.A. 121, Corporation Finance (5).

(c) Must take at least 20 additional hours of upper division courses selected from the following list:

<i>Credits</i>		<i>Credits</i>	
B.A. 105. Business Organization	5	159. Advanced Money and Banking.	5
122. Principles of Investment	5	175. The Business Cycle	5
124. Public Finance	5	176. Investment Analysis	5
125. Banking Organization and Administration	5	189. Bank Credit Administration	3
126. Commercial Credits	5	197. Research in Finance	5
127. Foreign Exchange	5	Law 137. Negotiable Instruments	3

(d) May select other courses from the following preferred list:

B.A. 59. Graphic and Tabular Analysis	5	108. Risk and Risk Bearing	5
104. Economics of Transportation	5	110,111,112. Advanced Accounting	15
106. Economics of Marketing and Advertising	5	131. Economics of Public Utilities	5
		164. Land Economics and Real Est.	5

(D) COMMERCIAL TEACHING AND SECRETARIAL TRAINING

1. Secretarial Training

For students registered in the College of Business Administration, and majoring in secretarial training, the following schedule of courses should be followed after the requirements of the first two years have been fulfilled:

<i>Credits</i>		<i>Credits</i>	
B.A. 81. Secretarial Training I	5	115. Business Correspondence	5
82. Secretarial Training II	5	167. Employment Management	5
83. Office Training and Practice	3	English (5 hours). In addition to work required of all students in the College of Business Administration.	
102. Office Management	5		
105. Business Organization	5		

2. Commercial Teaching

Following are the specific requirements for major and minor recommendations for the normal diploma in commercial teaching. Either major or minor requirements are based upon the general pre-business curriculum of the first two years of the College of Business Administration.

(Major)

<i>Credits</i>	<i>Credits</i>
*Pre-Business (First two years).....90	Edu. 101. Introduction to Education.. 5
B.A. 81-82. Secretarial Training I, II.10	119. Secondary Education 3
88. Office Training and Practice.. 3	140. Psychology of Methods..... 5
102. Office Management 5	145. Practice Teaching 5
103. Money and Banking..... 5	160D. Com. Teachers' Course; or
105. Business Organization 5	160DD. Shorthand and Typewriting.. 5
115. Business Correspondence 5	Approved Minor (Minimum).....20
	Approved Electives .....14

(Minor)

<i>Credits</i>	<i>Credits</i>
*Pre-Business (First two years).....90	140. Psychology of Methods..... 5
B.A. 81-82. Secretarial Training .....10	145. Practice Teaching 5
102. Office Management 5	160D. Com. Teachers' Course; or
115. Business Correspondence 5	160DD. Shorthand and Typewriting. 5
Edu. 101. Introduction to Education.. 5	Approved Major (Minimum).....35
119. Secondary Education 3	Approved Electives .....12

(E) FOREIGN TRADE AND CONSULAR SERVICE

1. Foreign Trade

A student majoring in foreign trade:

(a) Must take the following twenty-five hours of upper division courses:

<i>Credits</i>	<i>Credits</i>
B.A. 117,118. Exporting and Importing.10	144. Trade of Europe..... 5
143. Trade of the Far and Near East 5	145. Trade of the Americas 5

(b) Should elect as many as possible of the following essential courses:

<i>Credits</i>	<i>Credits</i>
B.A. 104. Economics of Transportation 5	149. Marine Insurance 5
119. Water Transportation 5	151. Rail and Marine Rates..... 5
127. Foreign Exchange 5	173. International Commercial Policies 5
135. Marketing of Food Products.. 5	195. Research in Foreign Trade..2-5
136. Market Analysis 5	

(c) Should choose some of the following recommended courses if he has time and inclination to pursue them:

<i>Credits</i>	<i>Credits</i>
B.A. 113. Ports and Terminals..... 3	Pol. Sci. 121. Foreign Relations of the U.S. 3
152. Shipping and Consular Reg... 3	122. Administration of American Foreign Affairs 3
159. Advanced Money and Banking. 5	123. International Relations 3
Law 185. Admiralty Law..... 3	
184-185. International Law..... 6	

(d) Should take some modern foreign language; twenty hours, if possible, or ten hours if he has had two years of language work in high school.

* In lieu of the 90 hours of pre-business, students entering the School of Education from normal schools or other colleges than Business Administration shall be required to take B.A. 7, Geographic Backgrounds of Industry (5); B.A. 54, 55, 56, Business Law (9); B.A. 62, 63, 64, Principles of Accounting (15). B.A. 1 and 2, General Economics, are prerequisites for B.A. 62, 63 and 64.

2. Consular and Government Trade Service

A student majoring in this department:

(a) Must take the following twenty-five hours of upper division courses:

<i>Credits</i>		<i>Credits</i>	
B.A. 117,118. Exporting and Importing	10	144. Trade of Europe	5
143. Trade of the Far and Near East	5	145. Trade of the Americas	5

(b) Should elect as many as possible of the following essential courses:

<i>Credits</i>		<i>Credits</i>	
B.A. 127. Foreign Exchange	5	Pol. Sci. 121. Foreign Relations of the United States	3
152. Shipping and Consular Reg.	3	122. Adm'n. of Foreign Affairs	3
173. Commercial Policies	5	123. International Relations	3
Law 184-185. International Law	6		

(c) Should choose some of the following recommended courses if he has time and inclination to pursue them:

<i>Credits</i>		<i>Credits</i>	
B.A. 104. Economics of Transportation	5	Pol. Sci. 128. International Relations of the Far East	3
118. Ports and Terminals	3	Law 165. Admiralty Law	3
119. Water Transportation	5	Hist. 1-2. Medieval and Mod. Europe	10
136. Market Analysis	5	75-76. History of China	10
149. Marine Insurance	5	78-79. History of Japan	10
151. Rail and Marine Rates	5	157-158-159. Hist of Amer Diplomacy	6
159. Adv. Money and Banking	5		

(d) Should take at least thirty hours of university work in a modern foreign language or twenty in case he has had two years of language work in high school.

(F) MANAGEMENT

A management major:

(a) Is required to take Mathematics 11 and 13, either as fulfilling the requirement of the College of Business Administration in mathematics, or as electives, and

<i>Credits</i>		<i>Credits</i>	
B.A. 130. Industrial Analysis and Control	5	167. Employment Management	5
163. Industrial Management	5	172. Executive Technique	5
		M.E. 140. Time Study and Job Anal.	5

(b) Should select electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 50. Graphic and Tabular Analysis	5	162. European Labor Problems	5
102. Office Management	5	168. Development of Econ. Thought	5
104. Economics of Transportation	5	175. The Business Cycle	5
105. Business Organization	5	176. Investment Analysis	5
106. Economics of Marketing and Advertising	5	196. Research in Management	2-5
107. Traffic Management	5	Psych. 1. General Psychology	5
120. Industrial Relations	3	121. Applied Psychology	5
121. Corporation Finance	5	Chem. 1-2. Gen. Inorganic Chemistry	10
126. Commercial Credits	5	111. Quantitative Analysis	5
128. Human Waste in Industry	3	121. Industrial Chemistry	5
132. Management of Pub. Utilities	5	122. Industrial Chemistry	5
136. Market Analysis	5	123. Industrial Chemistry	5
154, 155. Cost Accounting	10	Physics 1-2, 3. General Physics	15
158. Managerial Accounting	5	G.E. 7. Engineering Drawing	3
161. Labor Economics	5	11. Engineering Problems	3

(G) INSURANCE

(a) All majors in insurance must take B.A. 108, Risk and Risk Bearing (5).

(b) Majors should take:

<i>Credits</i>		<i>Credits</i>	
B.A. 130. Social Insurance	5	149. Marine Insurance	5
141. Fire Insurance	5	170. Casualty Insurance	5
142. Life Insurance	5		

(c) It is advisable that a large proportion of the electives should be selected from the following list of courses:

<i>Credits</i>		<i>Credits</i>	
B.A. 67. Paper Work in Shipping.....	5	144. Trade of Europe.....	5
102. Office Management	5	145. Trade of the Americas.....	5
119. Water Transportation	5	152. Shipping and Consular Reg....	3
121. Corporation Finance	5	161. Labor Economics	5
122. Principles of Investment.....	5	166. Women in Industry.....	2
127. Foreign Exchange	5	Law 100. Agency	5
138. Sales Management	5	108-104. Contracts	10
143. Trade of the Far and Near		183. Insurance	3
East	5	Soc. 155. Social Legislation.....	8

The courses selected should depend upon the field in insurance in which the student has particular interest—fire, life, marine, casualty or social.

(H) MARKETING, MERCHANDISING AND ADVERTISING

1. Marketing

Students majoring in marketing:

(a) Must take B.A. 106, Economics of Marketing and Advertising (5), preferably in the third quarter of the sophomore year or the first quarter of the junior year, and

<i>Credits</i>		<i>Credits</i>	
B.A. 134. Marketing Problems	5	136. Market Analysis	5
135. Marketing Northwest Products	5	140. The Cooperative Movement....	5

(b) Should choose electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 59. Graphic and Tabular Anal... 5		146. Retail Sales	5
103. Money and Banking	5	147. Retail Buying	5
104. Economics of Transportation... 5		148. Store Organization	5
108. Risk and Risk Bearing..... 5		172. Executive Technique	5
117, 118. Exporting and Importing..10		176. The Business Cycle	5
137. Advertising Campaigns	5	177. Business Forecasting	5
138. Sales Management	5		

2. Merchandising

Students majoring in merchandising:

(a) Must take B.A. 106, Economics of Marketing and Advertising (5), preferably in the third quarter of the sophomore year or the first quarter of the junior year, and

<i>Credits</i>		<i>Credits</i>	
B.A. 146. Retail Sales Problems.....	5	148. Store Organization	5
147. Retail Buying Problems.....	5	188. Apprenticeship or Research...3-6	

(b) Should choose electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 59. Graphic and Tabular Analysis	5	Jour 130. Fundamentals of Advertising	5
103. Money and Banking.....	5	181. Display Advertising	5
109. Advertising Principles and		Psych. 1. General Psychology	5
Practice	5	121. Applied Psychology	5
126. Commercial Credits	5	H.E. 25. Textiles	5
136. Market Analysis	5	127. Non-Textiles	3
138. Sales Management	5		

3. Advertising

Students majoring in advertising:

(a) Must take B.A. 106, Economics of Marketing and Advertising (5), preferably in the third quarter of the sophomore year or the first quarter of the junior year, and:

<i>Credits</i>		<i>Credits</i>	
B.A. 109. Advertising Principles and		137. Advertising Campaigns	5
Practice	5	138. Sales Management	5
136. Market Analysis	5		

(b) Should choose electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 59. Graphic and Tabular Analysis	5	131. Display Advertising	5
103. Money and Banking	5	133. Advertising Typography	5
134. Marketing Problems	5	135. Publicity	2
135. Marketing Northwest Products	5	P.S.&D. 5,6,7. Drawing	9
140. The Cooperative Movement	5	9,10,11. Art Structure	9
Eng. 51. Advanced Composition	2	113. Commercial Art	2
Jour. 51. News Writing	5	Psych. 1. General Psychology	5
130. Fundamentals of Advertising	5	121. Applied Psychology	5

(I) TRANSPORTATION AND MARITIME COMMERCE

1. Transportation

The major should:

(a) Have Mathematics 11 and 13, or an equivalent giving a fundamental knowledge of statistics.

(b) Elect as many as possible of the following essential courses:

<i>Credits</i>		<i>Credits</i>	
B.A. 67. Paper Work in Shipping	5	113. Ports and Terminals	3
104. Economics of Transportation	5	150. Railroad Finance and Admin.	5
107. Traffic Management	5	151. Rail and Marine Rates	5
119. Water Transportation	5	152. Shipping and Consular Reg.	3

(c) Choose other electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 40. Ship Operation	5	161. Labor Economics	5
50,51,52. Navigation	9	162. European Labor Problems	5
59. Graphic and Tabular Analysis	5	163. Industrial Management	5
103. Money and Banking	5	167. Employment Management	5
105. Business Organization	5	175. The Business Cycle	5
106. Economics of Marketing and Advertising	5	177. Business Forecasting	5
108. Risk and Risk Bearing	5	195. Research in Transportation and Foreign Trade	2-5
121. Corporation Finance	5	C.E. 120. Transportation Engineering	2
122. Principles of Investment	5	121. Transportation Engineering	4
130. Industrial Analysis and Control	5	122. Transportation Engineering	3
131. Economics of Public Utilities	5	124. Highways	4
132. Management of Public Util.	5	125. Railways	3
133. Control of Public Utilities	5	127. Yards and Terminals	3
143. Trade of the Far and Near East	5	Aero. 101-102. Aerodynamics	6
144. Trade of Europe	5	111-112. Aerial Propellers	6
145. Trade of the Americas	5	121, 122. Aeronautical Design	6
140. Marine Insurance	5	141. Airships	3
		161. Aerial Transportation	3

2. Maritime Commerce

The major:

(a) Should have a fundamental mathematics training in algebra, plane and spherical trigonometry. This may have been obtained in high school or can be made up by appropriate mathematics courses in the University (e.g., Math. 4).

(b) Is advised to choose the following electives:

*B.A. 40. Ship Operation	5	104. Economics of Transportation	5
*67. Paper Work in Shipping	5	**113. Ports and Terminals	3
*42. Wharf Management	5	119. Water Transportation	5
**50. Navigation	3	149. Marine Insurance	5
**51. Navigation	3	152. Shipping and Consular Reg.	3

*Preferably during the first year.

**Preferably during the second year.

(c) Should choose electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 52. Navigation	3	137. Advertising Campaigns	5
103. Money and Banking.....	5	151. Ball and Marine Rates.....	5
106. Economics of Marketing and Advertising	5	Law 165. Admiralty	3
107. Traffic Management	5	Psych. 1. General Psychology.....	5
108. Risk and Risk Bearing.....	5	M.E. 185-186-187. Naval Architecture..	9
114. Aerial Navigation	3	188-189. Ship Design.....	4
127. Foreign Exchange	5	190. Marine Engineering	3
		179. Steam Turbines	3

Attention is called to the curricula of the College of Engineering in Naval Architecture and Marine Engineering.

(J) LABOR.

The major (a) Must take:

<i>Credits</i>		<i>Credits</i>	
B.A. 161. Labor Economics	5	165. Labor Legislation	3
162. European Labor Problems.....	5	167. Employment Management	5

(b) Should elect from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 61. Social and Economic Standards of Living	3	Math. 13. Statistical Methods	5
104. Economics of Transportation..	5	Zool. 16. Evolution	2
120. Industrial Relations	3	17. Eugenics	2
124. Public Finance	5	Hist. 5-6. Eng. Pol. & Soc. Hist.....	10
128. Human Waste in Industry.....	3	8. U.S. Westward Movement to 1812	2
166. Women in Industry.....	2	9. U.S. Westward Movement 1812-1860	2
168. Development of Econ. Thought. 5		10. Agrarian Crusade in the U.S. 1860-1924	2
171. Modern Trends and Criticism..	5	145. U.S., 1846-1860	3
175. The Business Cycle.....	5	147. U.S. Civil War.....	3
177. Business Forecasting	5	148. U.S. Reconstruction.....	3
181. Economics of Consumption.....	5	149. U.S. National Development....	5
Psych. 1. General Psychology.....	5	Eng. 161, 162, 163. American Culture from 1620	9
121. Applied Psychology	5	Phil. 2. Introduction to Social Ethics..	5
Soc. 1. Introduction	5	3. Introduction to Ethics.....	5
66. Group Behavior	5		
67. Urban Attitudes	5		
68. National Traits	5		
131. Social Statistics	5		

(K) PUBLIC UTILITIES

A typical arrangement of courses for a student majoring in public utilities would be as follows:

(a) Mathematics 11 and 13, either as fulfilling the requirement of the College of Business Administration in mathematics, or as electives.

(b)

<i>Credits</i>		<i>Credits</i>	
B.A. 131. Econ. of Public Utilities... 5		133. Control of Public Utilities....	5
132. Management of Public Utilities	5		

(c) Electives from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 59. Graphic and Tabular Analysis	5	124. Public Finance	5
104. Economics of Transportation..	5	130. Industrial Analysis and Control	5
105. Business Organization	5	134. Market Organization	5
106. Economics of Marketing and Advertising	5	136. Market Analysis	5
110,111,112. Advanced Accounting...15		138. Sales Management	5
121. Corporation Finance	5	158. Managerial Accounting	5
122. Principles of Investment.....	5	167. Employment Management	5
		176. Investment Analysis	5

(L) STATISTICS

The major (a) Must take:

<i>Credits</i>		<i>Credits</i>	
B.A. 59. Graphic and Tabular Analysis	5	Math. 11. Theory of Investments....	5
175. The Business Cycle	5	13. Elem. of Statistical Method....	5
177. Business Forecasting	5	G.E. 1. Engineering Drawing.....	3

(b) Should elect as many as possible of the following essential courses:

<i>Credits</i>		<i>Credits</i>	
B.A. 103. Money and Banking.....	5	106. Economics of Marketing and	
104. Economics of Transportation..	5	Advertising	5
105. Business Organization	5	108. Risk and Risk Bearing.....	5

(c) May elect other courses from the following preferred list:

<i>Credits</i>		<i>Credits</i>	
B.A. 110,111,112. Adv. Accounting....	15	172. Executive Technique	5
121. Corporation Finance	5	Soc. 131. Social Statistics.....	5
124. Public Finance	5	Math. 151. Mathematical Theory of Finance	
130. Industrial Analysis and Control	5	152. Mortality Tables	
154,155. Cost Accounting.....	10	153. Insurance—Premiums and Reserves	5
158. Managerial Accounting	5		

(M) GENERAL BUSINESS

A student in the College of Business Administration not wishing to specialize in any of the above fields but preferring to combine fields may, with approval, be permitted a wide choice of business subjects.

He should be careful to meet the following general requirements:

(a) He must fulfill the general requirements of the College of Business Administration (page 145).

(b) He must take at least twenty-five hours of upper division courses listed under the College of Business Administration.

GENERAL INFORMATION

Textbooks—Syllabus Fees.—Many courses in the College of Business Administration require textbooks. The faculty aims to keep textbook expense as low as is consistent with a high standard of class work.

Syllabus or consultation fees are asked in all courses. The service rendered is necessary and valuable. With the exception of three secretarial training courses, B.A. 81, 82, 83, at \$5, this fee has been fixed at \$.50 a course. A fee of \$10 will be asked for any one quarter of instruction in shorthand or typewriting, as these are not a part of the regular curriculum and must finance themselves.

Library Facilities.—The college is placing in the library a large number of supplementary reports. For many years government reports, containing a vast amount of material for the student of business, have been filed in the library. Most of the domestic journals in economics and commerce, as well as many foreign ones, are received by the college. Each student is expected to make use of the material and report from time to time on current topics of interest.

Student Organizations.—A number of honorary and professional societies with national affiliations have been established in the College of Business Administration. Beta Gamma Sigma and Beta Alpha Psi (accounting), honorary fraternities, and Alpha Kappa Psi, a professional fraternity for men, at present count chapters in many institutions. Membership is based on high scholarship. Their aim is to promote serious study of business problems. Gamma Epsilon Pi, honorary, is a similar organization among the women specializing in business administration. Its purpose is not social, but professional, and membership is restricted to candidates for the B.B.A. degree. A number of prominent business women in Seattle and eastern cities are honorary members. Alpha Delta Sigma is a professional organization for men, and Gamma Alpha Chi for women, interested in advertising. The parent chapter of Pan Xenia, a professional and international society for major students in foreign trade, was founded in 1918 at the University of Washington and bids fair to play an important part in the future of our

foreign trade department. The University Women's Vocational Club was formed in 1927, its purpose being to bring about a spirit of friendliness and comradeship among women interested in business as a profession and to acquaint university women with vocational opportunities through personal contacts with downtown women's clubs.

Required Military Science and Physical Education.—The University requirements in military science, physical education and hygiene are satisfied as follows:

Men Students.—Freshmen and sophomores, five hours of military science per week each year.

Women Students.—Participation in healthful activities for the first four quarters, and the lecture course on the fundamentals of healthful and efficient living.

Correspondence.—Inquiries in regard to the College of Business Administration may be addressed to the dean of the college.

Contact with Actual Business.—The business men in the state and especially in the city of Seattle, are cooperating in a most genuine way with the College of Business Administration. Students are encouraged to avail themselves of the many opportunities to do part-time work in local concerns along their chosen lines.

In addition to part-time employment an alternating quarter system of office practice and academic work has been established in the division of maritime commerce. The office practice work is made a definite part of the training.

During the senior year, or during a year of graduate work, students specializing in marketing, merchandising or advertising are given opportunity to spend alternate quarters in actual business under the immediate supervision of a field director. This plan involves either attendance at summer school or working under supervision during the summer between the junior and senior years. These apprenticeships are made possible by the active cooperation of business houses. They give the student the benefit of a favorable introduction to the best business practice, and also give him this introduction while he is still in college. His theories may be vitalized by supervision of department heads in the business and the teacher of theory in college discussing with him the application of theory to actual business as the student finds it.

The Students' Advisory Council.—The B.A. Council, organized in the autumn quarter of 1919 by the students of the college, is a representative body having as its members three officers, two representatives from each of the three upper undergraduate classes, one representative from the freshman class, and one from the graduate school. It functions in an advisory capacity on matters relating to standard of scholarship, student esprit-de-corps, cooperation between the faculty and the student body on other matters which are brought to its attention by the faculty or the student body. The regular business administration assemblies are organized and conducted under the direction of the council.

The mentor system is the conception of this council. The plan provides for the appointment of a group of senior and graduate students to meet the freshmen of the college at a certain appointed time during each quarter. The mentors take the responsibility of seeing that every freshman student in his or her group gets the largest possible benefit out of his college life.

Fellowships.—The college is now in a position to grant several fellowships with the opportunity for assisting in the instruction. Address Dean of the College of Business Administration.

Outside Lectures.—The College of Business Administration supplements as far as possible the work given with practical lectures and discussions by business men. Many of the leading business men of Seattle and the state have delivered lectures in their special fields to classes.

COURSES OF STUDY

For description of courses offered by the College of Business Administration, see Departments of Instruction section.

SCHOOL OF JOURNALISM

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern).....*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

McKenzie, Vernon, B.A. (Toronto), A.M. (Harvard).....*Professor of Journalism; Dean of the School of Journalism*
Jones, Robert William, A.B., LL.B. (Missouri), A.M. (South Dakota).....*Associate Professor of Journalism*
Kennedy, Fred Washington.....*Director of the Journalism Laboratories*
Christian, Byron Hunter, B.A. (Washington).....*Instructor in Journalism*
Frudenberg, Mildred Lee, B.A. (Washington).....*Secretary to the Dean*
Meany, Edmond Stephen, M.L. (Wisconsin), LL.D. (College of Puget Sound)....*Professor of History*
Savery, William, Ph.D. (Harvard).....*Professor of Philosophy*
Frein, Pierre Joseph, Ph.D. (Johns Hopkins).....*Professor of Romantic Languages*
Smith, Stevenson, Ph.D. (Pennsylvania).....*Professor of Psychology*
Woolston, Howard, Ph.D. (Columbia).....*Professor of Sociology*
Martin, Charles E., Ph.D. (Columbia).....*Professor of Political Science*
Griffith, Dudley D., Ph.D. (Chicago).....*Professor of English*
Ashley, Paul P., LL.B. (Washington).....*Associate Professor in Business Administration*
Patterson, Ambrose.....*Assistant Professor of Fine Arts*
Hamaek, Frank H., LL.B. (Georgetown).....*Associate in Business Administration*

THE SCHOOL AND ITS EQUIPMENT

The first courses in journalism in the University of Washington were given in 1907. A department of journalism was established in 1909. In March, 1918, the department was formally made a school.

The professional courses in the School of Journalism and those prescribed in the Colleges of Liberal Arts and Science are planned with two aims in view—to offer instruction and practice in the fundamentals of newspaper work in both the business and editorial sides, and to provide such studies as are best adapted to give the broad training necessary for successful pursuits of journalism as a profession. In the first the courses include reporting, copy reading, editorial writing, advertising, trade journalism, the mechanics of printing and publishing, and the practical work of the business and administrative offices. In the second are history, economics, political science, sociology, philosophy, psychology, language, literature, and similar subjects necessary in developing the broader scholarship indispensable in modern journalism.

This double ideal of the School of Journalism curriculum has justified itself in the steady demands of Pacific coast editors for University graduates.

Equipment.—Journalism and printing take up the entire first floor of Commerce Hall, 208x70 feet. On this floor are the class rooms, the journalism library and reading room, the faculty offices, the University Press, and all the mechanical equipment for teaching practical journalism. The University Press does virtually all the campus printing.

Frederick A. Churchill Junior Memorial Library.—In March, 1918, a separate journalism library and reading room was opened, known as the Frederick A. Churchill Junior Memorial Library, in memory of a brilliant student of the school who died in 1916 while engaged in newspaper work in New York. The Memorial Library contains carefully selected books

and periodicals, relating to printing, advertising, current events, short story, feature writing and all phases of the editorial side of the newspaper.

Journalism "Morgue."—In the Memorial Library is a journalism reference "morgue," for newspaper and periodical clippings on topics of interest to the student of journalism.

Student Publications.—The editorial and business offices of *The University of Washington Daily, Columns, and Tyee* are on the first floor of Commerce Hall. Ownership of these publications is vested in the Associated Students of the University of Washington. All are supervised by the School of Journalism, the staff members of each being recruited mainly from the school. All offer opportunities for practical experience in magazine and newspaper work. Places on the editorial and business staffs of each, awarded for the most part on a basis of literary and executive ability, are open to all students in the School of Journalism. Opportunity for wide experience in reporting, copy reading, editorial writing, and advertising is offered in the various departments of these publications.

Journalistic Clubs.—Four national organizations are maintained by students in the School of Journalism. Junior and senior men have a chapter of Sigma Delta Chi, one of the two national journalistic fraternities. Junior and senior women maintain a chapter of Theta Sigma Phi, the national journalistic sorority founded at the University of Washington in 1910. Members of *The Columns* staff have chapters of Hammer and Coffin, the national comic-magazine fraternity, and Sigma Upsilon, the national literary fraternity. Students specializing in advertising have also chapters of Alpha Delta Sigma, national advertising fraternity for men, and Gamma Alpha Chi, for women.

Opportunity for Self-Help.—Because of the location of the University in a large city and the presence of numerous printing plants and publications within easy reach, there is excellent opportunity for students to earn part of their expenses while in school. During the past year a large per cent of the men in the School of Journalism were earning their way wholly or in part. The dean of the school has frequent calls from editors, publishers, and managers of printing plants for students with some experience to do part time work in advertising, publicity, and reporting. All the local newspapers and many of the more important dailies in neighboring cities maintain special reporters and correspondents at the University. Remuneration for the various kinds of work ranges up to \$100 a month, according to the service given. Promise of employment, however, cannot be made in advance. Positions usually are given those on the ground who are able to show by actual experience that they can do the work required. In general, a student should have an assurance of \$500 or more before enrolling in the School of Journalism, and no one should expect to earn all or even a part of his expenses during his first quarter of residence.

Admission.—On successful completion of 90 plus 10 credits of prescribed and elective work at the University of Washington, or an equivalent amount from another institution of accredited standing, students are granted upper division standing, which admits to the School of Journalism. (See College of Liberal Arts section, page 97.) Students not having upper division standing may be admitted, on recommendation of the dean, to courses in the School of Journalism if they (1) are proficient in English composition and typing, (2) have had sound training in history, economics, politics, and sociology, and (3) have had not less than a year's experience in newspaper work or other professional writing. Credit toward graduation is not granted for newspaper work except when such work is done under the direct supervision of an accredited instructor.

Fees.—In certain courses in journalism laboratory fees are charged.

These go toward purchase of student materials, community typewriters of which the school has fifteen—and towards subscriptions for newspapers and periodicals, of which the school takes sixty or seventy annually, in addition to a large number of weeklies that come to the dean's desk on exchange. The number of courses requiring fees varies from year to year. In 1928-29 the maximum laboratory fees in journalism, in addition to the regular University fees, will not be more than \$2.50 a quarter for any student, regardless of the number of courses taken.

For information on general University fees, see page 60.

Pre-Journalism Majors.—The dean of the School of Journalism is the adviser for all students in journalism from the beginning of the freshman year. Registration of pre-journalism majors is held in the dean's office. To him should be taken questions about coordinating courses in other schools and any matters touching scholastic problems.

Journalism Curriculum.—From the beginning of the freshman year a specific curriculum of studies (see page 160) is required of students expecting to major in journalism. Courses in news writing, the profession of journalism, current events, and the community newspaper are open to lower division students. Entrance to the School of Journalism is granted on ability shown by the individual in these courses to do newspaper work successfully. A minimum of 90 plus 10 credits must be earned before entrance.

Minor in Journalism.—Students wishing to minor in journalism must include the following courses in their minor: Journalism 51 (News Writing), 101 (Reporting), 120 (Copy Reading), and 150 (Editorial Writing)—a total of twenty hours.

Shorthand and Typewriting.—All written work in the School of Journalism must be done on a typewriter. Both shorthand and typewriting are required for graduation. Prospective students may save themselves much time, however, by learning shorthand and typing before entering the University. Tests in each are given quarterly. Those passing the tests successfully are excused from the University courses.

Graduation.—The curriculum of the School of Journalism leads to the degree of bachelor of arts in journalism, for which 180 credits must be obtained, plus 10 hours in physical training or military science. Fifty of these credits must be in journalism, with an average class grade of 86 or better. At the discretion of the journalism faculty, any student not maintaining this grade may be dropped from the school. A written examination covering the required courses in journalism is required of seniors not less than two weeks before the end of the quarter preceding graduation. A student holding a bachelor's degree from a recognized college or university may obtain a degree in journalism by fulfilling the additional requirements. Usually the time demanded is not less than four quarters.

Graduate Study.—Advanced courses in journalism, history, economics, political science, sociology, and English are offered students wishing to take graduate study in preparation for newspaper work or teaching journalism. A wide demand exists in high schools, colleges, and universities for instructors adequately trained to teach journalism. The University library contains a large collection of bound newspapers and magazines and furnishes unusual opportunity for a historical study of American journalism. Special provision is made for directing the work of graduate students interested in historical, political, psychological, or language studies in journalism. The Journalism Morgue and Churchill Memorial Library are particularly adapted for graduate research in journalism. The courses required are determined by the nature and amount of undergraduate work the candidate has done in journalism and the phase of it in which he wishes to specialize, such as advertising, the business office, trade journalism, or the purely editorial field. A thesis constitutes one of the requirements. On completion of the

requisite number of hours, the degree of master of arts in journalism is granted by the University.

Specialization.—Students looking forward to specialized branches of journalistic work, such as trade or class journalism, advertising, or the business office, will find the School of Journalism particularly well equipped to aid them. While emphasis is laid on the editorial side of the newspaper field, provision is made in the curriculum for practical training in other departments as well. In general, however, students are advised to obtain as thorough a comprehension of the fundamentals of newspaper work and as broad a general education as possible rather than to attempt specialization in a limited field.

CURRICULUM

Requirements for the degree of bachelor of arts in journalism are scheduled below. The courses are arranged in the order in which they normally follow each other. Those with a double dagger are required. Those marked with a single dagger are regarded as essential. Others are suggested electives. The University requirements of Military Science and Physical Education must be met in addition to those noted below.

FIRST YEAR¹

<i>Credits</i>		<i>Credits</i>	
Arch. 3. Appreciation.....	2	Jour. 1. Jour. as a Profession.....	1
Econ. 1. †Gen. Econ.....	5	Lib. Arts 1. †Intro. to Mod. Thought..	5
15. †Typewriting.....	0	‡Mil. Sci. or Phys. Ed.....	5
English 1. †Comp.....	5	Pol. Sci. 1. †Comparative Gov't.....	5
64, 65, 66. †Lit. Backgrounds.....	9	Science.....	15
Hist. 5-6. Eng. Pol. & Soc. Hist.....	10	Soc. 1. †Intro. Soc.....	5

SECOND YEAR

<i>Credits</i>		<i>Credits</i>	
Arch. 112, 113. Freehand Dr.....	4	61. †Community Newspaper.....	3
Econ. 103. Money and Banking.....	5	‡Mil. Sci. or Phys. Ed.....	5
59. Graph. & Tab. Anal. of Bus... 5	5	Music 13. Appreciation.....	5
61. Soc. & Econ. Stand's of Liv... 5	5	6. History of Music.....	5
62, 63. Accounting.....	10	Latin 11. †Roman Civ. ²	5
106. †Econ. of Markets.....	0	Phil. 5. †Intro. to Logic ³	5
18, 19. †Shorthand I and II.....	5	Psychology 1. †Gen. Psychology.....	5
English 67, 68, 69. †Am. Writers.....	6	Science.....	15
Foreign Language.....	10	Sociology 56. Family Life.....	3
Greek 11. †Greek Civ. ²	5	57. Child Welfare.....	3
Hist. 57-58-59. †Hist. of the U.S.....	9	62. Play and Leisure Time.....	3
71-72-73. Ancient Hist.....	9	63. Community Organ.....	5
Jour. 51. †News Writing.....	5	71. Immigration.....	5

THIRD YEAR

Arch. 101-102-103. Hist. of Architecture	6	History 130. Europe 1814-1870.....	5
Ast. 1. Gen. Astronomy.....	5	131. †Europe Since 1870.....	5
Dram. Art 101-102-103. Play Acting... 9	9	147. Civil War Period.....	3
111, 112, 113. Play Writing.....	15	148. Reconstruction Period.....	3
Econ. 54, 55, 56. †Bus. Law.....	9	149. National Development.....	5
104. Econ. of Transportation.....	5	Journalism 90, 91, 92. †Current Events.. 1	5
105. Bus. Organization.....	5	101. †Reporting.....	5
138. Sales Management.....	5	102. †Specialized Reporting.....	5
English 70, 71. †Shakespeare ⁴	6	104. †Newspaper Admin.....	2
98. †The Bible as Literature.....	2	115. †Elements of Publishing.....	3
104, 105, 106. Contemporary Lit.....	9	120. †Copy Reading.....	5
137. †Prose of the Victorian Period.. 3	3	130. †Fundamentals of Advertising... 5	5

¹ If a student has not had in high school the sciences prescribed for junior standing in Liberal Arts, he is required to take ten hours of chemistry or physics and ten hours of botany or geology or zoology in the University. Students entering without foreign language are required to take twenty hours of a modern foreign language in the University without credit.

² Students who have taken, or who plan to take, three or more years of ancient language, may omit this requirement. Greek 13 or Latin 13 may be substituted respectively for Greek 11 or Latin 11.

³ Philosophy 1 or Philosophy 3 may be substituted for this requirement.

⁴ English 72 may be substituted for either English 70 or English 71.

<i>Credits</i>	<i>Credits</i>	
131. †Display Advertising	5	113. †Contemporary Public Thought... 3
133. Adver. Typography	5	121. For. Relations of the U.S..... 3
135. Publicity	2	122. †American Foreign Affairs..... 3
136. †Comparative Journalism	3	123. †International Relations
138. †History of Journalism..... 5	5	Psychology 109. Mental Tests..... 3
140. †Business Office	5	111. Hist. of Psychology..... 2
Foreign Language	10	126. Abnormal Psychology
Orl. Studies. 114, 115, 116. Hist of		Romantic Lang. 118, 119, 120. Survey of
Religion	9	French Lit.
Phil. 101-102-103. Hist. of Phil..... 9		Science
Pol. Sci. 111. Hist. of Pol. Theory... 3		Sociology 130. The Social Survey..... 5
112. American Pol. Theory..... 3		131. Social Statistics
		5

FOURTH YEAR

<i>Credits</i>	<i>Credits</i>	
Econ. 121. Corporation Finance	5	163-164-165. †Northwest Hist..... 6
150. Railroad Finance	5	Jour. 145. †Law of the Press..... 3
161. Labor Problems	5	150. †Editorial Writing
162. European Labor Problems..... 5	5	160. Trade Journalism
168. Hist. of Econ. Thought..... 5	5	170, 171, 172. Magazine and Feature
175. Adv. Business Statistics..... 5	5	Writing
198. Marketing and Advertising..... 5	5	173. The Short Story..... 3
Educ. 101. Intro. Study of Educ..... 5	5	174, 175. Short Story Writing..... 6
161. Hist. of Educ.	5	Pol. Sci. 152. Amer. Pol. Parties.... 5
163. American Educ.	5	161. Municipal Government
160K. Teachers' Course, News Writing 2		162. Municipal Administration
English 161, 162, 163. Hist. Amer. Cult. 9		163. State Government
164, 165, 166. Amer. Lit. Since 1870. 9		Science
174, 175. †19th Cent. English Poetry. 6		Sociology 155. Social Legislation..... 3
Foreign Language	10	156. Criminology
Hist. 153. †The Pacific Rim..... 3		3

Advertising.—Students expecting to make advertising a profession should elect the following courses from those scheduled above: Architecture 112, 113 (Freehand Drawing); Economics 106 (Economics of Markets); Economics 175 (Business Statistics); Economics 145 (Trade of the Americas); Journalism 130 (Fundamentals of Advertising); Journalism 131 (Display Advertising); Journalism 133 (Advertising Typography); Journalism 160 (Trade Journalism). All these will be found of particular value in advertising work.

Short Story Writing.—Students interested particularly in short story writing should select as many as possible of the following courses, the first four in the order named: Journalism 51 (News Writing), Journalism 101 (Reporting), Journalism 170, 171, 172 (Magazine Writing), Journalism 173, 174, 175 (Short Story Writing), Dramatic Art 101, 102, 103 (Play Acting), Dramatic Art 111, 112, 113 (Play Writing), Psychology 1 (General Psychology), Psychology 118 (Folk Psychology), Psychology 126 (Abnormal Psychology), Psychology 131 (Child Psychology).

COURSES OF STUDY

For description of courses offered by the School of Journalism, see Departments of Instruction section.

COLLEGE OF ENGINEERING

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern)..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Magnusson, Carl Edward, Ph.D. (Wisconsin), M.S., E.E. (Minnesota).....*Professor of Electrical Engineering; Director of Engineering Experiment Station; Dean of the College of Engineering.*
Benson, Henry Kreitzer, Ph.D. (Columbia).....*Professor of Chemical Engineering*
Eastwood, Everett Owen, C.E., M.A. (Virginia), B.S. (Massachusetts Institute of Technology).....*Professor of Mechanical Engineering*
Harris, Charles William, C.E. (Cornell).....*Professor of Hydraulic Engineering*
Kirsten, Frederick Kurt, E.E. (Washington).....*Professor of Aeronautical Engineering*
Loew, Edgar Allan, E.E. (Wisconsin).....*Professor of Electrical Engineering*
More, Charles Church, M.S., C.E. (Lafayette), M.C.E. (Cornell).....*Professor of Structural Engineering.*
Wilson, George Samuel, B.S. (Nebraska).....*Professor of Mechanical Engineering*
Winslow, Arthur Melvin, Ph.B. (Brown), B.S. (Massachusetts Institute of Technology).....*Professor of Mechanical Engineering*

ASSOCIATE PROFESSORS

May, Charles Culbertson, B.S. (C.E.) (Washington).....*Associate Professor of Civil Engineering and Architecture.*
Wilcox, Elgin Roscoe, Met.E. (Washington).....*Associate Professor of Civil Engineering*

ASSISTANT PROFESSORS

Beuschlein, Warren L., B.S. (C.E.) (California Institute of Technology), M.S. (Ch.E.) (Washington).....*Assistant Professor of Chemical Engineering*
Collier, Ira Leonard, C.E. (Washington).....*Assistant Professor of Civil Engineering*
Edmonds, Robert H.G., B.S. (Whitman), M.S. (M.E.) (Washington).....*Assistant Professor of Mechanical Engineering.*
Farquharson, Frederick B., M.E. (Washington)..*Assistant Professor of General Engineering*
Hawthorn, George E., C.E. (Washington).....*Assistant Professor of General Engineering*
Hamilton, James Baker, C.E. (Washington).....*Assistant Professor of Civil Engineering*
Hoard, George Lisle, M.S. (E.E.) (Washington).....*Assistant Professor of Electrical Engineering.*
McIntyre, Harry J., B.S. (M.E.), M.B.A. (Washington).....*Assistant Professor of Mechanical Engineering.*
McMinn, Byron Towne, B.S. (Oregon Agricultural College), M.S. (Washington)..*Assistant Professor of Mechanical Engineering*
Miller, Alfred Lawrence, C.E. (Washington).....*Assistant Professor of Civil Engineering*
Schaller, Gilbert S., B.S. (M.E.) (Illinois), M.B.A. (Washington)....*Assistant Professor of Shop Engineering.*
Shuck, Gordon Russell, E.E. (Minnesota).....*Assistant Professor of Electrical Engineering*
Smith, George S., E.E. (Washington).....*Assistant Professor of Electrical Engineering*
Van Horn, Robert B., C.E. (Washington).....*Assistant Professor of Civil Engineering*
Warner, Frank M., B.S. (M.E.) (Wisconsin)..*Assistant Professor of General Engineering*

INSTRUCTORS

Applegate, L. M., B.S. (E.E.) (Washington).....*Instructor in Electrical Engineering*
Bergstrom, Theodore, B.S. (E.E.) (Washington).....*Instructor in Electrical Engineering*
Chittenden, Hiram M., B.S. (C.E.) (Washington).....*Instructor in General Engineering*
Eastman, Austin V., B.S. (E.E.) (Washington).....*Instructor in Electrical Engineering*
Jacobsen, Phillip A., B.S. (Washington).....*Instructor in General Engineering and Architecture.*
Lindblom, Roy E., B.S. (E.E.) (Washington).....*Instructor in Electrical Engineering*
Rathbun, John M., B.S. (E.E.) (Washington).....*Instructor in General Engineering*
Rhodes, Fred H., Jr., B.S. (C.E.) (Washington).....*Instructor in General Engineering*
Smith, Frederic C., B.S. (C.E.) (Washington).....*Instructor in General Engineering*
Weir, John, B.S. (E.E.) (Washington).....*Instructor in General Engineering*
Moritz, Harold K., B.S. (Massachusetts Institute of Technology)....*Instructor in General Engineering*
Sullivan, Clayton L.....*Assistant, Engineering Shops*

COOPERATING FACULTY

Anderson, Samuel Herbert, Ph.D. (Illinois).....	<i>Associate Professor of Physics</i>
Ayer, Leslie James, B.S. (Upper Iowa), J.D. (Chicago).....	<i>Professor of Law</i>
Brakel, Henry Louis, Ph.D. (Cornell).....	<i>Associate Professor of Engineering Physics</i>
Carpenter, Allen F., Ph.D. (Chicago).....	<i>Professor of Mathematics</i>
Daniels, Joseph, S.B. (Massachusetts Institute of Technology), M.S. (Lehigh)....	<i>Professor of Mining Engineering and Metallurgy.</i>
Hall, Amy Violet, A.B., A.M. (Washington).....	<i>Associate in English</i>
Nelkirk, Lewis Irving, Ph.D. (Pennsylvania).....	<i>Assistant Professor of Mathematics</i>
Thompson, Thomas G., Ph.D. (Washington).....	<i>Associate Professor of Chemistry</i>
Weinsrl, John, Ph.D. (Wisconsin), Dr.P.H. (Harvard).....	<i>Professor of Bacteriology</i>

GENERAL INFORMATION

The purpose of the College of Engineering is to give thorough training in engineering fundamentals, so essential to success in all branches of the engineering profession, and to provide instruction for specialization in the main fields of engineering. For administrative purposes the college is divided into seven departments: aeronautical, chemical, civil, electrical, mechanical and general engineering and engineering shops. The College of Engineering offers six four-year curricula (see pp. 166-170) leading to the degree of bachelor of science in the respective branches of chemical, civil, electrical and mechanical engineering but all are required to take the fundamental subjects on which engineering is based. The curricula consist largely of required courses, but a sufficient number of electives are provided in the junior and senior years to give each student the training that will best serve his case.

The location of the University is particularly favorable for engineering students. Seattle and the Puget Sound region offer exceptional opportunities for the student engineer to observe the practical application of engineering principles in all lines. The many large and readily accessible hydro-electric power plants, electric transmission and distribution systems and the development of the state's vast water power resources, offer unexcelled opportunities for the study of power engineering. Airplane factories, iron and steel works, wood-pulp and lumber mills, nitrogen fixation plants, ship building yards, docks, waterways, steam and electric railways, bridges, buildings, and a great variety of industrial plants, give students in all fields abundant opportunities to study and observe the application of fundamental engineering principles.

GENERAL ENGINEERING

The freshman work is identical for all the curricula in the Colleges of Engineering and Mines and is given by the department of general engineering. The aim is to give the student an early contact with engineering situations in which he can make application of the fundamentals of mathematics and physics, and to assist him in the formation of good habits of work and study so that he may obtain maximum return on his investment in an engineering education. To assist in realizing these ideas individual work is insisted upon in all courses and the student is given much personal coaching by his instructors. As a part of the courses the various fields of engineering are discussed enabling the student to make a more intelligent choice of his particular line of work. The choice is made at the beginning of his sophomore year. Engineering problems (G.E. 11, 12, 13) are planned to obtain these results and comprise a distinctive feature of the college.

Another feature of the freshman year is the study given the personal traits and aptitudes of the individual student. This phase of the work is done by the freshman adviser who is also in charge of all the general engineering courses. His advice and assistance on their personal problems is available to all students in the department.

AERONAUTICAL ENGINEERING

The courses in aeronautical engineering are arranged so as to give the student a thorough knowledge of the fundamentals of aerodynamics and an introduction into practical design of heavier and lighter-than-air flying machines. A field trip to the local airplane factory, one of the largest in the country, and occasional lectures by experienced designers and active aeronautical engineers serve to familiarize the student with the latest developments in this branch of engineering.

A laboratory equipped with two wind tunnels for testing air foils, airplane models and propellers serves to familiarize the student with the phenomena of air flow in channels and in the vicinity of surfaces of various contour and with the methods of quantitative determination of force reactions upon aeronautical structures.

CHEMICAL ENGINEERING

Chemical engineering is given under the direction of the department of chemistry and chemical engineering. It deals with the unit process of the manufacturing industry. Training in this subject includes not only general courses in engineering but also specific training in analytical, organic and physical chemistry. The application of chemical technique to manufacturing processes is made in specially developed courses in industrial chemistry and chemical engineering.

Chemical engineers are in charge of many important industries such as the manufacture of chemicals, petroleum products, the production of materials used in construction, fuels, paints, explosives and a great variety of organic products. The design of apparatus, chemical research, and the development of control methods play an important part in the career of the chemical engineer.

CIVIL ENGINEERING

Courses leading to the following branches of civil engineering are given:

Surveying, including the making of city and geological surveys, and surveys for engineering constructions.

Highway and railroad engineering, which deals with the location, construction and maintenance of city streets, highways and railways.

Hydraulic engineering, which deals with the laws governing the flow of water, and their applications to water supply of communities, to water power development, design of hydraulic machinery, river and harbor improvement, and the reclamation of land by drainage and irrigation.

Sanitary engineering, which deals with problems relating to the protection and preservation of the health of communities, including the design of water supply and sewerage systems, and sewage disposal works.

Structural engineering, which deals with the details of the design and construction of steel, concrete and timber structures, such as bridges, buildings, dams, retaining walls, and their foundations.

Material testing, which deals with the inspection and proper use of the materials of construction including timber, steel and concrete.

ELECTRICAL ENGINEERING

Mastery of the basic laws of direct currents, alternating currents and electric transients is essential to progress in any branch of electrical engineering. The foundation for specialization in any field is laid in the required courses of the electrical engineering curriculum. Elective courses are offered in electrical communication, telephones, telegraphs and radio, in illumination, electric machine design, electric railways, central stations and power transmission. The required and elective courses supplemented by seminars, thesis and research give ample opportunities for every student to follow his bent and secure training best suited to his talents. Special attention is given to the economic generation, transmission and distribution of hydro-electric power and to electric transients.

MECHANICAL ENGINEERING

The department of mechanical engineering aims to prepare the student to enter the various branches of mechanical engineering work including: design, operation and superintendence of machinery, fuel economy and power plants; structural materials; heating and ventilation; gas engineering; refrigeration; automobiles; commercial engineering; naval architecture and marine engineering.

ENGINEERING LABORATORIES

For description of laboratories, see page 40.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentialed and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

PREPARATION IN ALGEBRA FOR ENGINEERING

All students entering the College of Engineering will be tested in high school algebra by class work and by an examination given shortly after the beginning of the first quarter. It is essential that students in the engineering courses shall possess a good working knowledge of algebra *at the beginning of their course*, and it is the purpose of the test to secure this by requiring a review of the subject shortly before entering the University. Students failing in the test are not permitted to continue with regular freshman engineering mathematics, but are required to take a review of preparatory algebra (Math. 1, College of Science) during the first quarter.

In performing the fundamental operations of algebra, such as multiplication and division, the use of the parentheses, the solving of numerical and literal equations of the first and second degrees, the simplification of fractions and radicals, and the putting of problems into equations, it is of the first importance that the student should have distinct notions of the meaning and reasons for all that he does, and be able to state them clearly in his own language. He should be able to perform all these operations, even though somewhat complex, with rapidity, accuracy, and neatness. In his preparatory studies the student is advised to solve a great many practical problems and to describe fully the reason for the steps taken.

CURRICULA AND DEGREES

The College of Engineering offers four-year curricula in each of the departments of chemical, civil, electrical and mechanical engineering leading to the degree of bachelor of science in the respective branches of engineering, as B.S. in civil engineering. A more general training leading to the degree of bachelor of science (B.S.) is scheduled under commercial engineering, and should be followed by a year of graduate work which, under the university regulations for advanced degrees, leads to the degree of master of science (M.S.).

Thesis.—The graduating thesis will consist of research or design in some branch of engineering, or review of some existing construction. The subject must be approved by the professor in charge of the department under which it is classified.

Degrees with Honors.—A degree with honors in engineering may be conferred upon any student of the College of Engineering who, upon recommendation of the engineering faculty, of the honors committee and by vote of the university faculty, may be declared worthy of unusual distinction.

Advanced Degrees.—The degrees of master of science in civil engineering (M.S. in C.E.), master of science in electrical engineering (M.S. in E.E.), master of science in mechanical engineering (M.S. in M.E.), and master of science in chemical engineering (M.S. in Ch.E.), respectively, will be conferred on graduates of this college, or other engineering colleges of recognized standing who complete a year (45 credit hours) of graduate work, including a satisfactory thesis, with the grade of A or B. The candidate must comply with regulations of the Graduate School and pass a formal examination open to all members of the faculty. Selection of work for this degree must, in each case, be approved by the head of the department in which the student majors and the Graduate Council.

The professional degrees, chemical engineer, (Ch.E.), civil engineer (C.E.), electrical engineer, (E.E.), and mechanical engineer, (M.E.), will be conferred in three years on graduates of this college holding the degree (B.S.) or (M.S.) in their respective lines, who give evidence of having been engaged continuously in acceptable engineering work and who present satisfactory theses.

CURRICULA OF THE COLLEGE OF ENGINEERING

FOR THE FIRST YEAR IN ALL DEPARTMENTS

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Trig. Math. 51.....	4	Alg. Math. 52.....	4	Anal. Geom. Math. 58..	4
Engr. Prob. G.E. 11....	3	Engr. Prob. G.E. 12... 3		Engr. Prob. G.E. 13... 3	
Gen. Chem. 1 or 21... 5		Gen. Chem. 2 or 22... 5		Gen. Chem. 23..... 5	
Drawing. G.E. 1..... 3		Drawing. G.E. 2..... 3		Surveying G.E. 21..... 3	
Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½		Mil. Sci. or Phys. Ed... 1½	

IN CHEMICAL ENGINEERING

Leading to the degree of Bachelor of Science in Chemical Engineering

FIRST YEAR

The same for all curricula. See above.

Curricula

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SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Physics 97	5	Physics 98	5	Physics 99	5
Dif. Cal.—Math. 61....	3	Int. Cal.—Math. 62....	3	Qual. Chem. 101.....	5
Quant. Chem. 109.....	5	Quant. Chem. 110.....	5	Chem. Tech.—Chem. 52. 3	
Pol. Science 101.....	2	Mech.—M.E. 81	3	Steam Eng.—M.E. 82... 3	
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%	

THIRD YEAR

Ind. Chem. 121.....	5	Indus. Chem. 122.....	5	Indus. Chem. 123.....	5
Steam Lab.—M.E. 83... 3		Org. Chem. 128.....	5	Org. Chem. 129.....	5
Dir. Cur.—E.E. 101... 4		Mechanics—C.E. 131 ... 3		Alt. Cur.—E.E. 121... 4	
Dir. Cur. Lab.—E.E. 102.. 2		English 100	3	Alt. Cur. Lab.—E.E. 122.. 2	
Shop 55	1				

FOURTH YEAR

Phys. Chem. 181.....	5	Phys. Chem. 182.....	5	Chem. Eng. 173.....	3
Chem. Engr. 171.....	5	Chem. Engr. 172.....	5	Electives	13
Chem. Eng. Thesis 176. 2		Chem. Eng. Thesis 177. 3			
Mach. Des.—M.E. 111.. 3		Electives	3		

Electives must in all cases be approved by the head of the department.

IN CIVIL ENGINEERING

Leading to the degree of Bachelor of Science in Civil Engineering

FIRST YEAR

The same for all curricula. See above.

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Physics 97	5	Physics 98	5	Physics 99	5
Calc.—Math. 61	3	Calc.—Math. 62	3	Econ.—B.A. 3	3
St. Eng.—M.E. 82.... 3		Mech.—C.E. 131	3	Mech.—C.E. 132	3
Curves & Ethwk.—C.E. 57 4		Surr. Off. Prac.—C.E. 58 2		Adv. Surv.—C.E. 59.... 4	
Mil. Sci. or Phys. Ed... 1%		Pol. Sci. 101.....	2	Mil. Sci. or Phys. Ed... 1%	
		Mil. Sci. or Phys. Ed... 1%			

THIRD YEAR

Hydr.—C.E. 142	5	Hydr. Engr.—C.E. 143.. 5		Sanit. Engr.—C.E. 150. 3	
St. An.—R.C.—C.E. 171 3		Str. An.—St. 1—C.E. 172.. 3		Str. Anal.—Tmbr.—	
Matls.—Conc.—C.E. 162. 3		Matls. Tmbr. & St. 1—		C.E. 173	3
Bus. Law—B.A. 54.... 3		C.E. 163	3	Dir. Cur.—E.E. 101-2.. 6	
Trans. Eng.—C.E. 120.. 2		English 100	3	Trans. Engr.—C.E. 121. 4	
		Plant Des.—C.E. 100... 2			

FOURTH YEAR

Str. Des.—R.C.—C.E. 175 4		Ind. Chem. 119.....	3	Engr. Rel.—C.E. 199... 3	
Reclam.—C.E. 157	3	English Elective	3	Geology 105	5
Trans. Engr.—C.E. 123. 3		Elective	10	Electives	7
Elective	6				

Electives must in all cases be approved by the head of the department.

The following electives in the respective divisions of civil engineering are offered, subject to sufficient call:

Hydraulic and Sanitary Division

	<i>Credits</i>
Hydraulic Machinery—C.E. 145.....	3
Hydraulic Power—C.E. 147.....	3
Water Supply Problems—C.E. 155.....	3
Sewerage and Sewage Treatment—C.E. 158.....	3
Drainage, Waterways and Flood Control—C.E. 159.....	2

College of Engineering

Structural Division

	<i>Credits</i>
Structural Design—R.C.—C.E. 175.....	4
Structural Design—Timber—C.E. 177.....	3
Advanced Structural Anal.—C.E. 181-2-3.....	3
Advanced Structural Design—C.E. 185-6-7.....	4

Transportation Division

Highways—C.E. 124	4
Railways—C.E. 125	3
Yards and Terminals—C.E. 127.....	3
Transportation Administration—C.E. 128.....	3

IN ELECTRICAL ENGINEERING

Leading to the degree of Bachelor of Science in Electrical Engineering

FIRST YEAR

The same for all curricula. See page 166.

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Physics 97	5	Physics 98	5	Physics 99	5
Dif. Calc.—Math. 61... 3		Int. Calc.—Math. 62... 3		Int. Calc.—Math. 63... 3	
Mechanism—M.E. 81 ... 3		El. Steam Lab.—M.E. 83 3		Mechanics—C.E. 131 ... 3	
El. Steam—M.E. 82... 3		Pol. Science 101..... 2		Economics—B.A. 3 ... 3	
Shop 53	1	Shop 54	1	Shop 55	1
Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%		Mil. Sci. or Phys. Ed... 1%	

THIRD YEAR

Dir. Cur.—E.E. 109... 4	Dir. Cur.—E.E. 111 ... 4	Alt. Cur.—E.E. 161... 6
Dir. Cur. Lab.—E.E. 110 2	Dir. Cur. Lab.—E.E. 112.. 4	Alt. Cur. Lab.—E.E. 162.. 4
Mechanics—C.E. 132 .. 3	Hydraulics—C.E. 142... 5	English 102
English 100	Mach. Des.—M.E. 111.. 3	Mach. Des.—M.E. 112.. 3
Materials—M.E. 167 ... 3		

FOURTH YEAR

Alt. Cur.—E.E. 163... 6	El. Trans.—E.E. 195, 196 4	El. Trans.—E.E. 198... 2
Alt. Cur. Lab.—E.E. 164 4	Mach. Des.—E.E. 152... 3	Thesis or electives... 4
Physics 154	Thesis or electives... 4	Electives
Electives	Electives	10

Electives must in all cases be approved by the head of the department.

The following electives are offered in the several divisions of Electrical Engineering, and will be given as scheduled, if there is sufficient call:

	<i>Credits</i>
Electrical Communication—E.E. 131.....	4
Telephone Transmission—E.E. 132.....	3
Illumination—E.E. 141	4
Design of Electrical Apparatus—E.E. 154.....	4
Electric Railways—E.E. 171.....	4
Central Stations—E.E. 173.....	4
Power Transmission—E.E. 175.....	5
Electric Public Utilities—E.E. 177.....	2
Research—E.E. 180, 182, 184.....	2 to 5 (each)
Radio—E.E. 181, 183.....	5 (each)
Thesis—E.E. 186, 188.....	2 to 5 (each)
Engineering Equations—E.E. 191.....	3
Seminars—E.E. 190, 192, 194.....	4 (each)

IN MECHANICAL ENGINEERING

Leading to the degree of Bachelor of Science in Mechanical Engineering

FIRST YEAR

The same for all curricula. See page 166.

SECOND YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Calc.—Math. 61	3	Calc.—Math. 62	3	Calc.—Math. 63	3
Physics 97	5	Physics 98	5	Physics 99	5
Mechanism—M.E. 81	3	Steam Lab.—M.E. 83	3	Gen. Econ.—B.A. 3	3
El. Steam—M.E. 82	3	Pol. Sci. 101	2	Mechanics—C.E. 181	3
Shop 53	1	Shop 54	1	Shop 55	1
Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½

THIRD YEAR

Dir. Cur.—E.E. 101	4	Alt. Cur.—E.E. 121	4	Hydraulics—C.E. 142	5
Dir. Cur. Lab.—E.E. 102	2	Alt. Cur. Lab.—E.E. 122	2	English 100	3
Exp. Eng.—M.E. 151	3	Exp. Engr.—M.E. 152	3	Exp. Engr.—M.E. 153	3
Eng. & Boil.—M.E. 123	3	Eng. & Boil.—M.E. 124	3	Mach. Des.—M.E. 112	3
Mechanics—C.E. 182	3	Mach. Des.—M.E. 111	3	Shop 107	1
Shop 105	1	Shop 106	1		

FOURTH YEAR

Bus. Law—B.A. 54	3	Gas. Eng.—M.E. 198	3	Power Plants—M.E. 184	3
Thermo. & Ref.—M.E. 183	5	Heat. & Vent.—M.E. 182	3	St. Turb.—M.E. 179	3
Mach. Des.—M.E. 113	3	Mach. Des.—M.E. 114	3	Mach. Des.—M.E. 115 or 199	3
English 102	3	Engr. Mat.—M.E. 167	3	Thesis—M.E. 195	3
Electives	3	Electives	5	Electives	4

Electives must in all cases be approved by the head of the department.

The following electives are offered in the several divisions of Mechanical Engineering, and will be given as scheduled, if there is sufficient call:

	Credits
Time Study and Job Analysis—M.E. 140	5
Naval Architecture—M.E. 185, 186, 187	3 (each)
Ship Design—M.E. 188 and 189	2 (each)
Marine Engineering—M.E. 190	3
Research—M.E. 191, 192 and 193	2 to 5 (each)
Seminar—M.E. 194	2

IN NAVAL ARCHITECTURE AND MARINE ENGINEERING

Leading to the degree of Bachelor of Science in Naval Architecture and Marine Engineering

FIRST YEAR

The same for all curricula. See page 166.

SECOND YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Calc.—Math. 61	3	Calc.—Math. 62	3	Calc.—Math. 63	3
Physics 97	5	Physics 98	5	Physics 99	5
Mechanism—M.E. 81	3	Steam Lab.—M.E. 83	3	Gen. Econ.—B.A. 3	3
El. Steam—M.E. 82	3	Pol. Sci. 101	2	Mechanics—C.E. 181	3
Shop 53	1	Shop 54	1	Shop 55	1
Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½

THIRD YEAR

Autumn Quarter		Winter Quarter		Spring Quarter	
	Credits		Credits		Credits
Dir. Cur.—E.E. 101....	4	Alt. Cur.—E.E. 121....	4	Hydraulics—C.E. 142 ..	5
Dir. Cur. Lab.—E.E. 102...	2	Alt. Cur. Lab.—E.E. 122.	2	Exp. Engr.—M.E. 153 ..	3
Exp. Engr.—M.E. 151..	3	Exp. Engr.—M.E. 152..	3	Nav. Arch.—M.E. 187..	3
Nav. Arch.—M.E. 185..	3	Nav. Arch.—M.E. 186..	3	Mach. Des.—M.E. 112..	3
Mechanics—C.E. 132 ..	3	Mach. Des.—M.E. 111..	3	Shop 107	1
Shop 105	1	Shop 106	1		

FOURTH YEAR

Bus. Law—B.A. 54.....	3	Gas. Eng.—M.E. 108... 3	Mar. Eng.—M.E. 190 .. 3
Thermo. & Ref.—M.E. 183.	5	Heat. & Vent.—M.E. 182. 3	St. Turb.—M.E. 179... 3
Ship Des.—M.E. 188... 2		Ship Des.—M.E. 189... 2	Mach. Des.—M.E. 115.. 3
English 100	3	Engr. Mat.—M.E. 167.. 3	Thesis—M.E. 195
Electives	3	Electives	3

Electives must in all cases be approved by the head of the department.

IN COMMERCIAL ENGINEERING

Leading to the degree of Bachelor of Science

The student must register in the chemical, civil, electrical or mechanical department of the College of Engineering.

Business Administration 3, 60, 62, 63, 54, 55, 106.....	20
Chemistry 1-2, or 21-22, and 23.....	15
Civil Engineering 181, 182, 142.....	11
Electrical Engineering 101, 102 and 121, 122 or 161, 162.....	12
Engineering Shops 115.....	3
English 100, 102.....	6
General Engineering 1, 2, 11, 12, 13, 21.....	18
Mathematics 51, 52, 53, 61, 62, 63.....	21
Mechanical Engineering 81, 82, 83, 111, 112.....	15
Military Science or Physical Education.....	10
Physics 97 98, 99.....	15
Political Science 101.....	2
Technical Electives (department in which student is registered).....	21
General Electives	20
Total.....	198

Electives must in all cases be approved by the Dean of the College of Engineering.

IN AERONAUTICAL ENGINEERING

Students desiring to major in aeronautical engineering should include the following courses in the technical and general electives of the curriculum for the bachelor of science degree in the College of Engineering. These courses may also be taken as electives in the curricula for the bachelor of science degree in chemical, civil, electrical and mechanical engineering.

101. Aerodynamics	121. Aeronautical Design
102. Aerodynamics	122. Aeronautical Design
111. Aerial Propulsion	141. Airships
112. Aerial Propulsion	161. Aerial Transportation

COURSES OF STUDY

For description of courses offered by the College of Engineering, see Departments of Instruction section.

ENGINEERING EXPERIMENT STATION

THE STAFF

Spencer, Matthew Lyle, Ph.D. (Chicago) ; LL.D. (Northwestern) ..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Magnusson, Carl Edward, Ph.D. (Wisconsin), M.S., E.E. (Minnesota).....*Director*
Roberts, Milnor, A.B. (Stanford).....*Mining and Metallurgy*
Kirsten, Frederick Kurt, B.S., E.E. (Washington).....*Aeronautical Engineering*
Benson, Henry Kreitzer, Ph.D. (Columbia).....*Chemical Engineering*
Harris, Charles William, B.S. (Washington), C.E. (Cornell).....*Civil Engineering*
Loew, Edgar Allan, B.S., E.E. (Wisconsin).....*Electrical Engineering*
Wilson, George Samuel, B.S. (Nebraska).....*Mechanical Engineering*
Osborn, Frederick Arthur, Ph.D. (Michigan).....*Physics Standards and Tests*

For description of the work of the Experiment Station, see page 47.

COLLEGE OF FINE ARTS

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern).....*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Glen, Irving Mackey, A.M. (Oregon).....*Professor of Music; Dean of the College of Fine Arts*
Rosen, Moritz, Graduate (Warsaw Conservatory).....*Professor of Music*
Thomas, Harlan, B.S. (Colorado Agricultural College).....*Professor of Architecture*
Venino, Albert Franz (New York College, Stuttgart Conservatory, Leschetzky).....*Professor of Music*
Wood, Carl Paige, A.M. (Harvard).....*Professor of Music*

ASSOCIATE PROFESSORS

Isaacs, Walter, B.S. (F.A.) (James Millikin).....*Associate Professor of Fine Arts*
May, Charles Culbertson, B.S. (C.E.) (Washington).....*Associate Professor of Architecture and Civil Engineering*
Newenham, Frances Dickey, A.M. (Columbia).....*Associate Professor of Music*

ASSISTANT PROFESSORS

Benson, Edna G., A.B. (Iowa) A.M. (Columbia).....*Assistant Professor of Design*
*Foote, Hope, A.M. (Columbia).....*Assistant Professor of Interior Design*
Gowen, Lancelot, A.M. (Arch.) (California).....*Assistant Professor of Architecture*
Herrman, Arthur, A.B. (Arch.) (Carnegie Institute of Technology).....*Assistant Professor of Architecture*
Hill, Raymond, Graduate (Rhode Island School of Design).....*Assistant Professor of Fine Arts*
*Hughes, Glenn, M.A. (Washington).....*Assistant Professor of English and Dramatic Art*
Lawrence, Charles Willson, B.M. (Oberlin).....*Assistant Professor of Music*
Lovejoy, Albert, B.L.I. (Emerson College of Oratory).....*Assistant Professor of Dramatic Art*
McKay, George F., B.M. (Rochester).....*Assistant Professor of Music*
Patterson, Ambrose.....*Assistant Professor of Fine Arts*
Pratt, Dudley, A.B. (Yale).....*Assistant Professor of Fine Arts*
Rhodes, Helen, B.A. (Washington) (Columbia).....*Assistant Professor of Design*
Van Ogle, Louise (Leipzig; Godowsky; Bauer; Lhevienne).....*Assistant Professor of Music*

INSTRUCTORS

Adams, Albert Porter.....*Instructor in Music*
Allen, Ruth Frances, B.M. (Washington).....*Instructor in Music*
Buck, Helen Marian (California).....*Instructor in Design*
Jacobsen, John Theodore, B.F.A. (Washington), M.A. (Pennsylvania).....*Instructor in Architecture*
Kirchner, George C. (Leipzig).....*Instructor in Music*
Neilson, Irene M., B.Mus. (Washington).....*Instructor in Music*
Padelford, Morgan, M.A. (Washington).....*Instructor in Fine Arts*
Pearce, Richard J., M.A. (Harvard).....*Instructor in Architecture*
Schumacher, Elizabeth, B.M. (Washington).....*Instructor in Music*

ASSOCIATES

Alden, Charles, B.S. (Mass. Inst. of Tech.).....*Lecturer in Architecture*
Bogardus, Alice, B.L. (Mills).....*Associate in Music*
Conway, John Ashby, B.A. (Carnegie Institute of Technology).....*Associate in Dramatic Art*
Crawford, Margaret, A.M. (Columbia).....*Associate in Dramatic Art*
Fuller, Eugenia.....*Associate in Architecture*
Hanson, Bert B., B.A. (South Dakota).....*Associate in Dramatic Art*
Lovejoy, Cecyl E., M.A. (Washington).....*Associate in Dramatic Art*
Lynch, Clara Belle.....*Associate in Music*
Mabon, Edna, Graduate (Conservatory of Music, Carleton College).....*Associate in Music*
Pennington, Ruth.....*Associate in Design*
Venino, Luella (Leschetzky).....*Associate in Music*
Wood, Florence, B.F.A. (Washington).....*Associate in Design*
Worman, Eugenie (Pratt Institute).....*Associate in Fine Arts*

*Absent on leave 1928-29.

ASSISTANTS

Bamford, Ruth, B.M. (Washington).....	Assistant in Music
Blanchard, Fred, B.A. (Washington).....	Assistant in Dramatic Art
Burns, Nina, B.M. (Washington).....	Assistant in Music
Canfield, Iris Fern, B.Mus. (Washington).....	Assistant in Music
Oliver, Louise Benton, B.Mus. (Washington).....	Assistant in Music

COOPERATING FACULTY

Cory, Herbert E., Ph.D. (Harvard).....	Professor of Liberal Arts
Eastwood, Everett Owen, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology).....	Professor of Mechanical Engineering
Hall, David Connolly, M.D. (Rush Medical College).....	University Health Officer; Professor of Hygiene
More, Charles Church, M.S. (Lafayette), M.C.E. (Cornell).....	Professor of Structural Engineering
Sidey, Thomas K., Ph.D. (Chicago).....	Professor of Latin and Greek
Anderson, Samuel Herbert, Ph.D. (Illinois).....	Associate Professor of Physics
Densmore, Harvey Bruce, B.A. (Oxford).....	Associate Professor of Greek
Goggio, Charles, Ph.D. (Wisconsin).....	Associate Professor of Romance Languages
Gross, Mary Emma, A.M. (Columbia).....	Associate Professor of Physical Education for Women
Eckelman, Ernest Otto, Ph.D. (Heidelberg)....	Assistant Professor of Germanic Languages

GENERAL INFORMATION

This college comprises the departments of architecture, music, painting, sculpture, design and dramatic art. The department of architecture offers a curriculum of five years leading to the degree of bachelor of architecture. In music there are curricula of four years leading to the degree of bachelor of music, with major in applied music, composition, or public school music, and to the degree of bachelor of arts in music. Curricula of four years are offered leading to the degree of bachelor of fine arts, with a major in painting and design, interior design, public school art, or painting. The department of dramatic art offers major courses in the study of the drama and dramatic interpretation, leading to the degrees of bachelor of arts in dramatic art and bachelor of fine arts with a major in dramatic art.

Normal Diploma.—In addition to their bachelor degree graduates in music and in public school art (P.S.D.) may receive a normal diploma, entitling them to teach music in the public schools, by meeting the requirements of the department of education and such departmental requirements as these respective departments may institute.

Admission of Normal School Graduates to Advanced Standing.—Graduates of the two-year curriculum of approved normal schools may receive junior standing provided their credits meet the requirements of the University for entrance, scholarship standard, and credit hour load.

SCHOLARSHIPS

Scholarships in Piano Study.—Mr. A. F. Venino offers an annual scholarship to the student showing the greatest proficiency and promise in piano playing at the end of his junior year. The benefits of this scholarship will apply to the work of the student during his senior year.

Beecher Kiefer Memorial Scholarship is awarded annually to the most talented man student of violin. This award is subject to competition before a committee from the department of music. Applications should be made before June 1.

Mu Phi Epsilon Scholarship.—Mu Phi Epsilon, national honorary musical sorority, offers to a woman student a scholarship of one lesson a week for a school year, in either voice, piano, violoncello or organ.

Prior to the beginning of the fall term, a private tryout will be held before the committee of judges, which will be composed of three Mu Phi Epsilon members and two members of the faculty of the music department. The award will be made according to talent, personality, financial situation, promise, and general scholastic standing.

It is a requirement: (1) That the scholarship be awarded a University of Washington student of at least one year's attendance in the music department of the University.

(2) That the scholarship award, if won by (a) a senior, shall be paid back three years after the time of the award. (b) A junior, shall be paid back four years after the time of the award. (c) A sophomore, shall be paid back five years after the time of the award, in order to perpetuate and establish a permanent scholarship fund.

(3) That Mu Phi Epsilon members shall not be eligible for the competition.

The winner may select a teacher from the music faculty.

Applications must be sent to the Dean of the College of Fine Arts before September 15 of each year.

The Ladies' Musical Club of Seattle, for the years 1927-28 and 1928-29, will give an award of \$100 to the senior girl in the College of Fine Arts, department of music, whose work has been the most productive and who has been the greatest inspiration in the advancement of music during her four years at college.

PRIZES AND COMPETITIONS

The Charles H. Bebb Prize in Architecture.—Mr. Charles H. Bebb, Seattle, offers an annual prize of books to the value of \$100 for the best design in some problem of architecture.

The Gladding McBean Prize.—The Gladding McBean Company offers a prize of fifty dollars in the department of architecture to the sophomore, junior, or senior student who submits the best design in terra cotta treatment.

The American Institute of Architects' Prize.—The American Institute of Architects offers annually a silver medal and a book to the graduating senior with the most distinguished record in design for the entire course.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses, may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

SPECIAL REQUIREMENTS FOR DEPARTMENT OF ARCHITECTURE

All students contemplating the study of architecture should confer with the head of the department as to their special qualifications and reasons for entering the professional study of architecture. A student should have credits in plane geometry, algebra through quadratics, trigonometry, physics, and at least two years of foreign language. Forty hours of foreign lan-

guage are required for graduation, twenty hours of which are provided in the curriculum. The romance languages, particularly French, should be chosen, though freedom of choice is allowed.

Methods of Instruction.—The plan of study recognizes that architecture is essentially a scientific art, the practice of which must be based on a thorough knowledge of construction and the practical requirements of buildings. Technical training which has not recognized the importance of the principles of design has failed notably to raise the skilled draftsman to the position of an architect.

The University recognizes that its function in teaching this profession is not only that students may obtain a general knowledge of architecture, but also that they may be able to cope with problems that occur in actual practice.

Design.—A knowledge of design is the most essential subject in a course preparing students for the profession of architecture. The program of studies is so arranged, therefore, that most weight is given to these subjects. The student gives the greater part of his afternoons to work in the drafting room. This work consists largely of problems in architectural design presented as far as possible to develop technical skill without hindering individuality of expression. After the freshman year, problems will be judged by a committee of practicing architects and faculty appointed by the head of the department. Most of the work is done under the programs of the Beaux Arts Institute of Design, New York, and is sent there for judgment where it is placed in competition with work of the leading schools of architecture in this country. All drawings made by the students are the property of the department until returned.

Construction.—The theory and practice of construction is taught as a necessary basis for and in connection with architectural design. It prepares students in the best way for architectural practice. The department strongly recommends that the student supplement his university training by work in an architect's office. Three months of office work at least should be done by the student before he obtains his degree.

Business.—Besides the two main branches of architecture—design and construction—a third important factor in modern practice is business. A portion of the senior year is taken up by business subjects.

Allied Subjects.—Closely allied with each of the two main branches are various other subjects. History of architecture, freehand drawing and modelling are properly related to design; mathematics, physics, and the like, are taught in their proper relation to construction.

Thesis.—A thesis, the subject of which is chosen by the student and approved by the faculty, must be completed before the student is eligible for a degree. This involves the design of a building, some construction details in connection with it, and various reports as to the theory of the design, technical requirements, and the like. It is done by program, under criticism, as an eight credit hour course in the spring quarter of the senior year, and is judged and passed on by a committee of three members of the faculty.

Required for Degree.—The credit requirement for graduation (outside of military science and physical education) is set by this curriculum at 225 credits. Because of the manifold requirements relative to a well rounded architectural education, no deviation or substitution of courses will be permitted except by consent of the head of the department, where it can be shown that work similar to the subjects in question has been done. In the courses of design, Arch. 54, 55, 56, Grade I; Arch. 104, 105, 106, 107, Grade II; and Arch. 154, 155, 156, 157, Grade III; however, a student may in some cases advance more rapidly and satisfy by perfection of work the re-

quirements of a grade without technical registration for all three quarters of that grade. In such cases, which will only be by points of excellence, a student may be excused by the department from registering in all of the courses in a grade, and still be allowed to graduate. The total number of credits hereby reduced must not be below the university minimum of 180 credits for a four-year course and 225 credits for the five-year course.

It is advisable that students intending to enter the course in architecture present credits for preparatory work in trigonometry and freehand drawing.

SPECIAL REQUIREMENTS FOR DEPARTMENT OF MUSIC

Students intending to enter any of the music courses leading to a degree must satisfy the head of the department that they have completed in addition to the usual high school preparation the equivalent of four years' work in piano, showing that they are familiar with the rudiments and can play well scales and chords in all positions, the smaller sonatas of Haydn, Mozart and Beethoven, and easier compositions representative of the best literature for the piano.

The department of music offers examinations in sight singing, ear training, and elementary harmony for students who wish to attempt them, with a view of being excused from these required courses. These examinations will be held by appointment and applications must be filed with the Registrar in advance. Students who successfully pass the examinations will be expected to register for advanced courses in the same subjects.

Forty hours of foreign language either in the high school or in the University are required for a degree in the College of Fine Arts. If a student has finished this work in the high school, he shall substitute approved electives in the University. Language courses given in English translation will not be counted toward this requirement. If he presents no foreign language for admission to the University, he must supply the deficiency in addition to the hours demanded by the respective curricula, without credit.

CURRICULA

The following curricula present the requirements for the several degrees, arranged in suitable sequence. However, many of the five-hour courses are offered in two or more quarters, so that other sequences may be acceptable, and even necessary, provided that prerequisites are complied with and conflicts avoided.

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN APPLIED MUSIC

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Music 0 Sight Singing..	5	Music 13 Apprec.....	5	Music 6 History	5
18 Applied	3	10 Applied	3	20 Applied	3
L.A. 11 or Elect.....	5	English 2	3	English 3	3
English 1	3	For. Lang.	5	For. Lang.	5
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½

SECOND YEAR

Music 10 Cho. or Elect. 1	*Music 11 Cho. or Elect. 1	*Music 12 Cho. or Elect. 1
16 Ear Training 5	51 Harmony	53 Harmony
68 Applied	69 Applied	70 Applied
Ec., Pol. Sci. or Soc... 5	For. Lang.	For. Lang.
Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½

*Only those who have successfully completed the work in Music 11 will be eligible for registration in Music 12.

Curricula

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THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Music 10 Cho. or Elect.	1	*Music 11 Cho. or El.	1	*Music 12 Cho. or El.	1
101 Harmony	5	109 Counterp.	5	117 Composition	5
104 Adv. Hist.	2	105 Adv. Hist.	2	108 Adv. Hist.	2
118 Applied	3	110 Applied	3	120 Applied	3
112 Form	5	Physics 50	5	Physics 51	5

FOURTH YEAR

Music 151 Adv. Apprec.	2	Music 152 Adv. Appr.	2	Music 153 Adv. Appr.	2
168 Applied	3	169 Applied	3	170 Applied	3
Phil. 120 Aesth.	5	157 Composition	5	190 Recital	2
Elective	5	Elective	5	Elective	6
				Pol. Sci. 101	2

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN PUBLIC SCHOOL MUSIC †

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Lib. Arts 11 or Elect.	5	Mus. 13 Apprec.	5	Mus. 9 Slight Sing.	5
Mus. 18 Applied	3	10 Applied	3	20 Applied	3
10 Chorus or Elect.	1	*11 Chorus or El.	1	*12 Chorus or El.	1
English 1 Composition	3	English 2 Composition	3	English 3 Composition	3
Elective	3	Elective	3	Mus. 6 History	5
Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½

SECOND YEAR

Mus. 10 or El.	1	*Mus. 11 Cho. or El.	1	*Mus. 12 Cho. or El.	1
16 Ear Train.	5	51 Harmony	5	53 Harmony	5
Econ. or Pol. Sci. or Soc.	5	Physics 50 Sound.	5	56 School Music	5
For. Lang.	5	For. Lang.	5	Physics 51 Sound.	5
Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½

THIRD YEAR

Mus. 68 Applied	3	Mus. 69 Applied	3	Mus. 70 Applied	3
101 Harmony	5	114 Mus. Educ.	2	112 Form	5
113 Mus. Educ.	2	Educ. 101	5	Educ. 160N	2
For. Lang.	5	For. Lang.	5	Educ. 119	3
				Elective	2

FOURTH YEAR

Music 151 Adv. Appre.	2	Music 152 Adv. Appre.	2	Music 153 Adv. Apprec.	2
154 Mus. Superv.	2	155 Mus. Superv.	2	156 Mus. Superv.	2
109 Counterpoint	5	117 Composition	5	Educ. 145	5
Phil. 129 Aesthetics	5	Educ. 140	5	Elective	5
		Pol. Sci. 101	2		

FOR THE BACHELOR OF MUSIC DEGREE WITH A MAJOR IN COMPOSITION

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Lib. Arts 11 or El.	5	Music 13 Apprec.	5	Mus. 9 Slight Singing	5
For. Lang.	5	For. Lang.	5	6 Mus. Hist.	5
Mus. 18 Applied	3	Mus. 10 Applied	3	20 Applied	3
English 1	3	English 2	3	English 3	3
Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½

SECOND YEAR

Music 10 Cho. or El.	1	*Music 11 Cho. or El.	1	*Music 12 Cho. or El.	1
16 Ear Training	5	51 Harmony	5	53 Harmony	5
For. Lang.	5	For. Lang.	5	Elective	3
Econ. or Pol. Sci. or Soc.	5	Physics 50 Sound.	5	Physics 51 Sound.	5
Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½	Phys. Ed. or Mil. Sci.	1½

*Only those who have successfully completed the work in Music 11 will be eligible for registration in Music 12.

†The completion of this course will entitle the graduate to receive the University normal diploma.

THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Music 10 Cho. or El.. 1		*Music 11 Cho. or El.. 1		*Music 12 Cho. or El.. 1	
68 Applied 3		69 Applied 3		70 Applied 3	
104 Adv. Hist..... 2		105 Adv. Hist..... 2		108 Adv. Hist. 2	
101 Harmony 5		109 Counterpoint ... 5		117 Composition 5	
112 Form 5		Elective 4		Elective 4	

FOURTH YEAR

Music 151 Adv. Apprec. 2	Music 152 Adv. Apprec. 2	Music 153 Adv. Apprec. 2
168 Polyphonic Forms 5	157 Composition 5	197 Adv. Comp. 5
Phil. 129 Aesth..... 5	173 Orchestration ... 5	Elective 5
Elective 3	Elective 3	Pol. Sci. 101..... 2

FOR THE DEGREE OF BACHELOR OF ARTS IN MUSIC

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
**Music elective 5		**Music elective 5		Lib. Arts 11 or Elec... 5	
English 1 3		English 2 3		English 3 3	
§Science 5		§Science 5		For. Lang. 5	
Elective 2		Elective 2		Elective 2	
Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci.. 1½	

SECOND YEAR

**Music elective 5	**Music elective 5	**Music elective 5
Econ. or Pol. Sci. or Soc. 5	Physics 50 5	Physics 51 5
For. Lang. 5	For. Lang. 5	For. Lang. 5
Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½

THIRD YEAR

**Music elective 5	**Music elective 5	**Music elective 5
‡Lib. Arts elective.....10	‡Lib. Arts elective.....10	‡Lib. Arts elective.....10

FOURTH YEAR

**Music elective 5	**Music elective 5	**Music elective 5
Philosophy 120 5	‡Lib. Arts elective..... 8	‡Lib. Arts elective.....10
Free elective 5	Pol. Sci. 101 2	

CURRICULUM IN ARCHITECTURE LEADING TO THE DEGREE OF BACHELOR IN ARCHITECTURE

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Arch. 1 Arch. Apprec... 2		Arch. 2 Arch. Apprec... 2		Arch. 3 Arch. Apprec... 2	
4 El. of Design..... 4		5 El. of Design..... 4		6 El. of Design... 4	
7 Graphics 1		8 Graphics 1		9 Graphics 1	
47 El. Bldg. Con.... 3		48 El. Bldg. Con.... 3		French 1 5	
PSD 32 Draw. & Sculp. 3		PSD 33 Draw. & Sculp. 3		English 3 3	
English 1 3		English 2 3		Phys. Ed. or Mil. Sci.. 1½	
Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci.. 1½			

SECOND YEAR

Arch. 51 Hist. of Arch. 2	Arch. 52 Hist. of Arch. 2	Arch. 53 Hist. of Arch. 2
54 Design Gr. I.... 5	55 Design Gr. I.... 5	56 Design Gr. I.... 5
Math. 54 Trigonometry.. 3	Math. 55 Algebra 3	Math. 56 Anal. Geom... 3
French 2 5	French 3 5	C.E. 105 Lighting..... 2
Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½	PSD 34 Draw. & Sculp. 3
		Phys. Ed. or Mil. Sci.. 1½

*Only those who have successfully completed the work in course 11 will be eligible for registration in course 12.

‡If a student presents one unit of high school chemistry or physics and one unit of high school botany or geology or zoology, he may substitute 10 hours of elective for this science requirement.

‡Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

** (1) Among the music courses indicated above the following are required: 6, 9, 13, 16, 51, 53, 101, 117.

Curricula

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THIRD YEAR

Arch. 101 Hist. of Arch. 2	Arch. 102 Hist. of Arch. 2	Arch. 108 Hist. of Arch. 2
104 Design Gr. II... 5	105 Design Gr. II... 5	106 Design Gr. II... 5
120 Work. Drawings... 2	121 Work. Drawings... 2	122 Work. Drawings... 2
40 Water Color 2	117 Bldg. Con. 3	118 Bldg. Con. 3
C.E. 130 Theo. Con.... 3	41 Water Color 2	42 Water Color 2
Pol. Sci. 101..... 2	125 Pencil Sketch.... 1	126 Pencil Sketch.... 1

FOURTH YEAR

Arch. 107 Design Gr. II. 5	Arch. 154 Design Gr. III 5	Arch. 155 Design Gr. III. 5
112 Freehand Draw... 3	113 Freehand Draw... 3	151 Hist. of Arch.... 2
C.E. 106 Plumb. & San. 2	M.E. 107 Heat & Vent. 2	140 Hist.. Arch. Orn. 2
Physics 1 General..... 4	Physics 2 General..... 5	Physics 113 Accous&Ill. 4
B.A. 54 Bus. Law..... 3	Arch. 115 Modelling... 2	PSD 160 Life..... 3

FIFTH YEAR

Arch. 156 Des. Gr. III. 5	Arch. 157 Des. Gr. III. 5	Arch. 158 Thesis..... 8
152 Theo. of Arch... 2	158 Arch. Materials.. 2	159 Spec. & Of. Pr. 2
PSD 161 Life..... 5	PSD 162 Life 3	Electives 5
Electives 5	Arch. 170 Sen. Mechan. 2	
	Electives 5	

Preferred Electives—Philosophy, Economics, World Literature, Aesthetics, Psychology, French, or General History.

FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR IN PAINTING AND DESIGN

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing..... 3		P.S.D. 6 Drawing..... 3		P.S.D. 7 Drawing..... 3	
9 Art Struc. 3		10 Art Struc. 3		11 Art Struc. 3	
English Composition ... 3		English Composition ... 3		English Composition ... 3	
Foreign Language 5		Foreign Language 5		Foreign Language 5	
Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci.. 1½	

SECOND YEAR

P.S.D. 53 Art Struc... 3	P.S.D. 54 Art Struc... 3	P.S.D. 55 Art Struc... 3
56 Drwg. and Ptg... 3	57 Drawing and Ptg.. 3	58 Drawing and Ptg.. 3
Foreign Language 5	Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½
Phys. Ed. or Mil. Sci.. 1½	Electives 9	Electives 2
Electives 4		Lib. Arts 11 or Elec... 5
		P.S.D. 20 2

THIRD YEAR

P.S.D. 126 Hist. of Ptg. 1	P.S.D. 127 Hist. of Ptg. 1	P.S.D. 128 Hist. of Ptg. 1
107 Portrait 3	108 Portrait 3	109 Portrait 3
103 Pottery or	104 Pottery, or	Arch. 3 Arch. Apprec... 2
157 Metalwork 3	158 Jewelry 3	Laboratory Sci. 5
Pol. Sci., Ec. or Soc... 5	Laboratory Sci. 5	Electives 4
Electives 3	Electives 3	

FOURTH YEAR

P.S.D. 160 Life 3	P.S.D. 161 Life..... 3	P.S.D. 162 Life 3
116 Illustration, or	151 Art Struc., or	152 Art Struc., or
168 Art Struc. 3	167 Art Struc..... 3	168 Art Struc..... 3
Electives .....10	Electives 8	Electives .....10
	Pol. Sci. 101..... 2	

**FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR
IN PUBLIC SCHOOL ART**

All students intending to teach are expected to take all the courses given in this curricula. All substitutions must be arranged for through the head of the department.

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing.....	3	P.S.D. 6 Drawing.....	3	P.S.D. 7 Drawing.....	3
9 Art Struc.....	3	10 Art Struc.....	3	11 Art Struc.....	3
English Composition ...	3	English Composition ...	3	English Composition ...	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½

SECOND YEAR

P.S.D. 53 Art Struc... 3	P.S.D. 54 Art Struc... 3	P.S.D. 55 Art Struc... 3
56 Drawing and Ptg. 3	57 Drawing and Ptg. 3	58 Drawing and Ptg. 3
Foreign Language 5	Pol. Sci., Ec., or Soc... 5	Phys. Ed. or Mil. Sci.. 1½
Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½	Electives 4
Electives 3	Electives 3	Lib. Arts 11 or Elect.. 5

THIRD YEAR

P.S.D. 107 Portrait or 160 Life..... 3	P.S.D. 108 Portrait or 161 Life 3	P.S.D. 109 Portrait or 162 Life 3
126 Hist. of Ptg..... 1	127 Hist. of Ptg.... 1	128 Hist. of Ptg..... 1
103 Pottery, or 157 Metalwork 3	104 Pottery, or 158 Jewelry 3	Educ. 119 3
Educ. 101 5	Laboratory Sci. 5	Laboratory Sci. 5
Electives 4	Electives 4	P.S.D. 20 2
		Electives 2

FOURTH YEAR

P.S.D. 116 Illustration.. 3	P.S.D. 105 Art Struc.. 3	P.S.D. 106 3
101 Pub. Sch. Art... 2	151 Art Struc. 3	152 Art Struc..... 3
Philosophy 129 5	102 Pub. Sch. Art... 2	Educ. 145 5
Electives 4	Educ. 140 5	Pol. Sci. 101..... 2
Educ. 160P 2	Electives 3	Electives 3

**FOR THE DEGREE OF BACHELOR OF FINE ARTS WITH A MAJOR
IN INTERIOR DESIGN**

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing.....	3	P.S.D. 6 Drawing.....	3	P.S.D. 7 Drawing.....	3
9 Art Struc.....	3	10 Art Struc.....	3	11 Art Struc.....	3
English Composition ...	3	English Composition ...	3	English Composition ...	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½

SECOND YEAR

Arch. 1 Appreciation... 2	Arch. 2 Arch. Apprec.. 2	Arch. 3 Arch. Apprec.. 2
4 Elem. of Des..... 4	5 Elem. of Arch..... 4	6 Elem. of Arch..... 4
7 Graphics 1	8 Graphics 1	9 Graphics 1
P.S.D. 80 Furn. Des... 3	P.S.D. 81 Furn. Des... 3	P.S.D. 82 Furn. Des... 3
Foreign Language 3	Foreign Language 2	Electives 6
Electives 3	Elective 4	Phys. Ed. or Mil. Sci.. 1½
Phys. Ed. or Mil. Sci.. 1½	Phys. Ed. or Mil. Sci.. 1½	

THIRD YEAR

P.S.D. 110 Int. Des... 3	P.S.D. 111 Int. Des... 3	P.S.D. 112 Int. Des... 3
Arch. 101 History..... 2	Arch. 102 History..... 2	Arch. 103 History..... 2
Pol. Sci., Soc. or Ec... 5	Lab. Science 5	Lab. Science 5
Lib. Arts 11 or elect... 5	Electives 5	H.E. 25 Textiles..... 5

FOURTH YEAR

P.S.D. 172 Int. Des... 5	P.S.D. 173 Int. Des... 5	P.S.D. 80 Ap. of Sculp. 2
126 Hist of Ptg..... 1	127 Hist. of Ptg.... 1	174 Int. Des. 5
H.E. 143 House Furn... 3	Electives 10	128 Hist. of Ptg.... 1
Electives 7		Electives 6
		Pol. Sci. 101 2

MAJOR IN PAINTING AND SCULPTURE

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
P.S.D. 5 Drawing.....	3	P.S.D. 6 Drawing	3	P.S.D. 7 Drawing.....	3
9 Art Struc.....	3	10 Art Struc.....	3	11 Art Structure.....	3
English Composition ...	3	English Composition ...	3	English Composition ...	3
Foreign Language	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½

SECOND YEAR

P.S.D. 56 Painting....	3	P.S.D. 57 Painting....	3	P.S.D. 58 Painting....	3
65 Drawing and Ptg. or 72 Sculpture	3	66 Draw. and Ptg. or 73 Sculpture	3	67 Drawing and Ptg. or 74 Sculpture	3
Foreign Language	5	Electives	10	Lib. Arts 11 or elective	5
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½	Electives	5
Electives	5			Phys. Ed. or Mil. Sci..	1½

THIRD YEAR

P.S.D. 116 Illustration. 3	P.S.D. 105 Art Struc.. 3	Arch. 3 Arch. Apprec.. 2
107 Portrait	108 Portrait	P.S.D. 106 Art Struc.. 3
or 122 Sculpture ... 3	or 123 Sculpture..... 3	109 Portrait
126 Hist. of Ptg.... 1	127 Hist. of Ptg..... 1	or 124 Sculpture..... 3
Pol. Sci., Ec., or Soc... 5	Laboratory Science ... 5	128 Hist. of Ptg.... 1
Electives	Electives	Laboratory Science ... 5
		Electives

FOURTH YEAR

P.S.D. 160 Life.....	3	P.S.D. 161 Life.....	3	P.S.D. 162 Life.....	3
163 Comp.	3	164 Comp.	3	165 Comp.	3
Electives	10	Electives	10	Electives	8
				Pol. Sci. 101.....	2

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF ARTS
IN DRAMATIC ART

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Dram. Art 9.....	2	Dram. Art 107.....	5	English 3 Composition..	3
English 1 Comp.....	3	English 2 Composition..	3	*Foreign Language ...	5
Dram. Art 5.....	5	§Chem., Bot. or Zool... 5		Electives	7
§Chem., Bot. or Zool... 5		Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci..	1½
Phys. Ed. or Mil. Sci.. 1½		Dram. Art 10	2		

SECOND YEAR

Dramatic Art 61.....	5	Dram. Art 62.....	5	Dramatic Art 63.....	5
*Foreign Language ...	5	Psychology 1	5	Pol. Sci., Soc. or Econ. 5	
Lib. Arts 11 or elect..	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½	Phys. Ed. or Mil. Sci..	1½

THIRD YEAR

Electives	6	Electives	6	Electives	6
Dram. Art 104	4	Dram. Art 105.....	4	Dram. Art 106.....	4
127	5	†Lib. Arts Electives... 5		†Lib. Arts Electives... 5	

FOURTH YEAR

Dram. Art 101 Play Act. 3	Dram. Art 102 Play Act. 3	Dram. Art 103 Play Act. 3
151 Rep. Plays..... 3	152 Rep. Plays..... 3	153 Rep. Plays
†Lib. Arts Electives... 7	†Lib. Arts Electives... 7	Education 160L
Electives	Electives	†Lib. Arts Electives... 3
		Pol. Sci. 101.....
		Electives

§If a student presents one unit of high school chemistry or physics, and one unit of high school botany or geology or zoology, he may substitute 10 hours of elective for this science requirement.

†Liberal Arts electives for the junior and senior years must be in upper division courses except with the consent of the dean.

*At least 10 credits in foreign language should be in French.

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF FINE ARTS
WITH A MAJOR IN DRAMATIC ART**

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Dram. Art 9.....	2	Dram. Art 107.....	5	English 3 Composition..	3
English 1 Composition..	3	English 2 Composition..	3	*Foreign Language	5
Dram. Art 5.....	5	Chem., Bot. or Zool....	5	Electives	2
Chem., Bot. or Zool... 5		Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½	
Phys. Ed. or Mil. Sci.. 1½		Dram. Art 10.....	2	Dram. Art 108.....	5

SECOND YEAR

Dram. Art 61.....	5	Dram. Art 62	5	Dram. Art 63	5
*Foreign Language	5	Psychology 1	5	Pol. Sci., Soc. or Econ..	5
Lib. Arts 11 or electives	5	Foreign Language	5	Foreign Language	5
Phys. Ed. or Mil. Sci.. 1½		Phys. Ed. or Mil. Sci... 1½		Phys. Ed. or Mil. Sci... 1½	

THIRD YEAR

Dram. Art Electives... 5	Dram. Art Electives... 5	Dram. Art Electives... 5
127	105	108
104	Electives	Electives
Electives	6	6
1		

FOURTH YEAR

Dram. Art 101.....	3	Dram. Art 102.....	3	Dram. Art 103.....	3
151	3	152	3	153	3
114	2	115	2	116	2
Phil. 120 (Aesthetics)..	5	Electives	7	Education 160L	2
Electives	2			Electives	3
				Pol. Sci. 101.....	2

*At least 10 credits in foreign language should be in French.

COURSES OF STUDY

For description of courses in architecture, dramatic art, music, and painting, sculpture and design, see Departments of Instruction section.

COLLEGE OF FISHERIES

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) ..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-29

Cobb, John N.....*Professor of Fisheries; Dean of the College of Fisheries*
.....*Assistant Professor of Ichthyology*
Parks, Clarence T., M.S. (Washington).....*Assistant Professor of Fisheries*
Crawford, Donald R., M.S. (Washington).....*Assistant Professor of Fisheries*
Jarvis, Norman D., M.S. (Washington).....*Instructor in Fisheries*
Schultz, Leonard P., M.S. (Michigan).....*Instructor in Ichthyology*

COOPERATING FACULTY

Kincaid, Trevor, A.M. (Washington).....*Professor of Zoology*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Professor of English and Dean of the Graduate School*
Osborn, Frederick Arthur, Ph.D. (Michigan).....*Professor of Physics*
Johnson, Charles Willis, Ph.C., Ph.D. (Michigan).....*Professor of Pharmaceutical Chemistry, Dean of the College of Pharmacy, and State Chemist*
Frye, Theodore Christian, Ph.D. (Chicago).....*Professor of Botany*
Eastwood, Everett Owen, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of Technology).....*Professor of Mechanical Engineering*
Hall, David Connolly, M.D. (Rush Medical College).....*University Health Officer; Professor of Hygiene*
Benson, Henry Kretzler, Ph.D. (Columbia).....*Professor of Chemical Engineering*
Weinzirl, John, Ph.D. (Wisconsin), Dr.P.H. (Harvard).....*Professor of Bacteriology*
Ayer, Lealle James, J.D. (Chicago).....*Professor of Law*
Dehn, William Maurice, Ph.D. (Illinois).....*Professor of Organic Chemistry*
Burd, Henry Alfred, Ph.D. (Illinois).....*Professor of Business Administration*
Cox, William Edward, A.M. (Texas).....*Professor of Business Administration; Dean of the College of Business Administration*
Smith, George McPhail, Ph.D. (Freiburg).....*Professor of Inorganic Chemistry*
Wilson, George Samuel, B.S. (Nebraska).....*Professor of Mechanical Engineering*
Rigg, George Burton, Ph.D. (Chicago).....*Professor of Botany*
Tartar, Herman Vance, Ph.D. (Chicago).....*Professor of Chemistry*
Skinner, Macy Millmore, Ph.D. (Harvard).....*Professor of Business Administration*
Thompson, Thomas G., Ph.D. (Washington).....*Associate Professor of Chemistry*
¹Guberlet, John Earl, Ph.D. (Illinois).....*Associate Professor of Zoology*
Smith, Eli Victor, Ph.D. (Northwestern).....*Associate Professor of Zoology*
Wilcox, Elgin Roscoe, Met.E. (Washington).....*Associate Professor of Civil Engineering*
Gavett, George Irving, B.S. (C.E.) (Michigan).....*Assistant Professor of Mathematics*
Powell, Sargent, Ph.D. (Illinois).....*Assistant Professor of Chemistry*
Beuschlein, Warren Lord, M.S. (Ch.E.) (Washington).....*Assistant Professor of Chemical Engineering*

¹Absent on leave.

GENERAL STATEMENT

The College of Fisheries was established in 1919. It has a two-fold purpose: First, to afford instruction in the principles and practice of fishery; second, to promote the interest of fisheries in the state of Washington and in the United States by encouraging the right use of fishery resources.

The location of the college has exceptional advantages. The University campus is situated on the shores of Lakes Washington and Union, which are connected with each other and with Puget Sound by canals. Extensive commercial fisheries for fishes, oysters, clams and crabs are conducted in Puget Sound, while fleets of vessels with headquarters at Seattle and nearby cities carry on extensive fisheries in the ocean adjacent to the Washington coast, and on the fishing banks of Alaska. Numerous canneries, smoke-houses, cold storage plants and fertilizer plants are to be found in Seattle and other places on the Sound. A number of fish hatcheries are owned and operated in the state of Washington by the federal, state and county governments. At Friday Harbor the University owns and operates an excellent marine biological station. These many advantages present unrivaled opportunities for study of fisheries, aquatic life and fish culture.

DEGREES

The four-year curricula in the College of Fisheries lead to the degree of bachelor of science (B.S.) in fisheries.

The degree of master of science (M.S.) in fisheries will be conferred on any graduate of the four-year curricula who has completed at least one year of graduate work and presented a satisfactory thesis with the grade of A or B. A graduate of any similar institution of equal rank will be given full graduate standing, but he must have a satisfactory knowledge of zoology, chemistry, bacteriology, and botany. Selection of work for this degree must be approved by the director of the college. Before being recognized as a candidate for an advanced degree, a student must appear before a committee appointed by the dean of the Graduate School, who shall determine the student's fitness for such work and confer with him upon his proposed course of study.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

Advanced Standing.—Credit will be given for subjects pursued at other colleges of recognized rank upon presentation to the registrar of certificates that such subjects have been satisfactorily completed. Graduates in this institution and others of similar rank are admitted to graduate standing.

LABORATORIES

For description of laboratories, see page 42.

AQUARIUM

The aquarium is equipped with a number of tanks for live fishes, and with balanced and other aquaria for study of aquarium management. Here students are taught to make accurate observations, record data, note habits, and to study reactions and the life history of fishes.

FISH HATCHERY

The fish hatchery occupies about fourteen hundred square feet of floor space. It is furnished with hatching troughs, baskets, and other essential equipment for care of 2,000,000 salmon or trout eggs. A complete equipment consisting of batteries of open-top jars is provided for care of several million semi-buoyant eggs, such as those of the shad, whitefish and yellow perch. A tidal box is also available for handling eggs of saltwater species. Feeding tanks and aquaria are provided in which experimental work in fish culture may be carried on. A number of cement lined ponds are available in the college grounds for rearing of various species of aquatic animals.

Within easy reach of the University are state and federal fish hatcheries where a study may be made of the actual conditions under which fish culture is carried on.

An arrangement has been effected with the United States Bureau of Fisheries under the terms of which the most promising seniors in fish culture will be afforded opportunity to spend five or six months at some one of the bureau's eighteen hatcheries in Washington, Oregon, and Alaska, half of this period to be during the summer vacation. They will be given opportunity to familiarize themselves with building and repair of hatcheries, setting fish traps, stripping spawning fish, and fertilizing and care of eggs until the young are hatched out. While so engaged, students will be paid wages current for this class of work. At the expiration of this period the students will return to the University to complete their course. After passing the regular civil service examination, as many of these students as there is room for will be appointed to the position of fish culturist.

COMMERCIAL OPERATIONS

In or near Seattle and available for study are plants for the canning of fish, crabs, shrimps and clams; the mild-curing of salmon; the pickling of salmon, herring, and sablefish; the freezing and cold storage of fish and oysters; the dehydration of fish; the smoking of fish, and the preparation of oil, fish meal and fertilizer from the waste. Two large can-making establishments, several plants manufacturing canning machinery, and a number of others supplying various machines and supplies for the industry, also are located in Seattle. Such of these industries as are not in Seattle are conveniently situated nearby, and the transportation costs to them are low.

Shellfish Culture.—On Puget Sound and in Hood Canal are numerous private oyster beds where cultivation has been practiced for some years. The state owns certain oyster reserves which are utilized for experimental purposes. These are all within reasonable distance of Seattle and are available for study purposes by the students of the college.

Fishery Operations.—Trap netting, purse and haul-seining, gill getting, trolling, hand and long-line fishing, oyster gathering, clam digging, kelp harvesting and other forms of commercial fishing are carried on either in the harbor of Seattle, or waters adjacent, during the proper seasons, and can be observed and studied on the ground.

FIELD EXCURSIONS

Much of the instruction in fish culture and fisheries technology is given in the field, necessitating frequent excursions to nearby hatcheries, fishing camps, oyster beds, and industrial plants. The varied fishery apparatus owned by the college is used in nearby waters. The expense of such excursions will be comparatively small.

SUMMER WORK

Students of fisheries and food preservation are advised to spend their summer vacations in some line of practical work connected with the fishery and food preservation industries. As the college is convenient to the more important fish, fruit and vegetable canneries and dehydrating plants, ample opportunity is afforded for summer employment. Students not only acquire valuable experience in this way, but earn a considerable portion of their university expenses.

FISHERY CLUB

The Fishery Club is an organization open to all students of the College of Fisheries. It aims: (1) to promote acquaintance and good fellowship among students and instructors; (2) to keep in touch with everyday problems in fisheries and with men who are doing things worth while in this industry, and (3) to interest the public in the College of Fisheries and in the fishery preservation problems of the state and nation.

OUTLINE FOR CURRICULA

Choice of Electives.—In the election of studies, students should follow the sequence of subjects as outlined in the curricula. Deviations from the prescribed order will not be allowed by class advisers unless such deviation is imperative. All electives must have the approval of class advisers.

Attention of the students is directed to the following courses as desirable electives, those to be selected depending on the curriculum followed: B.A. 103, Money and Banking; B.A. 105, Business Organization; B.A. 106, Economics of Markets and Advertising; B.A. 167, Employment Management; Bact. 103, Public Hygiene; Chem. 104, Food Chemistry; Chem. 123, Industrial Chemistry; Chem. 165, Chemistry of Nutrition; M.E. 82, 198, Mechanical Engineering; modern language (Spanish or German preferred); Zool. 127, 128, Comparative Anatomy; Zool. 101, Cytology; Physiology 7, Elementary Physiology.

I. FISH BIOLOGY

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Fisheries 1	2	Fisheries 2	2	Fisheries 6	2
Zoology 1	5	Zoology 2	5	Zoology 5	5
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23	5
English 4	3	English 5	3	Gen. Engineering 7.....	3
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Fisheries 53	5	Fisheries 54	5	Zoology 108	5
Bacteriology 101	5	Bacteriology 102	5	Botany 53	5
Zoology 108	5	Appr. Electives	3	Fisheries 60	3
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Political Science 101... 2	
				Mil. Sci. or Phys. Ed..	1½

THIRD YEAR

Fisheries 101	5	Fisheries 102	5	Fisheries 103	5
Fisheries 140	5	Fisheries 104	5	Fisheries 105	5
Zoology 16	2	Mathematics 13	5	Chemistry 111	5
Appr. Electives	3				

FOURTH YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Fisheries 150	5	Fisheries 151	5	Fisheries 152	5
Fisheries 154	5	Fisheries 196	2	Fisheries 197	2
Fisheries 180	3	Appr. Electives	8	Appr. Electives	8
Fisheries 195	2				

II. FISHERIES TECHNOLOGY

FIRST YEAR

Fisheries 1	2	Fisheries 2	2	Fisheries 6	2
Zoology 1	5	Zoology 2	5	B.A. 3	3
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23	5
English 4	3	English 5	3	Gen. Engineering 7.....	3
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Appr. Electives	2
				Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Fisheries 53	5	Fisheries 54	5	Fisheries 60	3
Bacteriology 101	5	Bacteriology 102	5	Fisheries 65	2
Chem. 131 or 128.....	5	Chem. 132 or 129.....	5	Chemistry 111	5
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Appr. Electives	5
				Mil. Sci. or Phys. Ed..	1½

THIRD YEAR

Fisheries 110	5	Fisheries 104	5	Fisheries 105	5
Fisheries 120	5	Fisheries 111	5	Fisheries 122	5
Mathematics 13	5	Fisheries 121	5	Fisheries 101	5
				Pol. Sci. 101.....	2

FOURTH YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Fisheries 150	5	Fisheries 147	3	Fisheries 152	5
Fisheries 180	3	Fisheries 151	5	Fisheries 197	2
Fisheries 195	2	B.A. 55	3	Appr. Electives	8
B.A. 54	3	Fisheries 196	2		
Zool. 16	2	Appr. Electives	2		

Unless a student has presented one year of high school physics as an entrance requirement, he will be required to take Physics 1, 2 and 3 in the University with credit.

GRADUATE

Fisheries 201 ...Research*	Fisheries 202 ...Research*	Fisheries 203 ...Research*
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*Time and credit to be arranged.

COURSES OF STUDY

For description of courses offered by the College of Fisheries, see Departments of Instruction section.

COLLEGE OF FORESTRY

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) *President of the University*
Thomson, David, B.A. (Toronto) *Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale) *Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Winkenwerder, Hugo, M.F. (Yale) *Professor of Forestry; Dean of the College of Forestry*
Kirkland, Burt Persons, A.B. (Cornell) *Professor of Forestry*

ASSOCIATE PROFESSOR

Grondal, Bror Leonard, M.S.F. (Washington) *Associate Professor of Forestry*

ASSISTANT PROFESSORS

Alexander, J. L., B.S.F. (Toronto) *Assistant Professor of Forestry*
Brandstrom, Axel, B.S.F. (Washington) *Assistant Professor of Forestry*

LECTURER

Clark, Elias Treat, M.F. (Yale) *Lecturer in Forestry*
Instructor in Forestry

COOPERATING FACULTY

Benson, Henry Kreitzer, Ph.D. (Columbia) *Professor of Chemical Engineering*
Cox, William E., A.M. (Texas) *Professor of Economics and Business Administration*
Hall, David Connolly, M.D. (Chicago) *University Health Officer; Professor of Hygiene*
Kincald, Trevor, M.A. (Washington) *Professor of Zoology*
Osborn, Frederick A., Ph.D. (Michigan) *Professor of Physics*
Skinner, Macy M., Ph.D. (Harvard) *Professor of Business Administration*
Wilson, George Samuel, B.S. (Nebraska) *Professor of Mechanical Engineering*
Goodspeed, George Edward, B.S. (Min.E.) (Massachusetts Institute of Technology) *Associate Professor of Geology*
Hotson, John William, Ph.D. (Harvard) *Associate Professor of Botany*
Hamilton, James Baker, C.E. (Washington) *Assistant Professor of Civil Engineering*
Nelkirk, Lewis Irving, Ph.D. (Pennsylvania) *Assistant Professor of Mathematics*

GENERAL INFORMATION

The College of Forestry was established in 1907. Its location has exceptional advantages. The University campus comprises 582 acres, forty of which are in timber, offering splendid opportunities for field work in silviculture and forest measurements. Other excellent forests are within walking distance of the campus. The University owns large forest tracts in various parts of the state, where students may conduct extensive research work. The immense national forests within a few hours' ride of Seattle afford practical object lessons in forest management. Washington is the largest lumber producing state in the country, and Seattle is in the center of the timber industry of Washington and the Northwest. In its many sawmills and wood-working industries, the student has unrivaled opportunities for studying wood utilization.

BUILDINGS

The main building of the College of Forestry, Alfred H. Anderson Hall, was completed in the spring of 1925 at a cost of \$250,000. It contains the lecture rooms, student laboratories, exhibition rooms, library, reading and Forest Club rooms and an assembly hall seating 250. Covering a ground area of 7,500 feet, it has three full floors and a large draughting room on

the fourth floor. The appointments are unusually complete. This building was presented to the University by Mrs. Agnes H. Anderson to promote the cause of forestry in the State of Washington. The Forest Products Laboratory, which was erected by the University in 1921 at a cost of \$85,000, is a modern two-story building designed for research work in forest products. A covered arcade connects this building with Alfred H. Anderson Hall.

FOREST CLUB

The Forest Club is comprised of all students in the College of Forestry. It aims: To promote acquaintance and good fellowship among students and instructors; to keep in touch with everyday problems in forestry and lumbering, and the leaders in these industries; to interest the public in the college and in the forestry and lumbering problems of the state. A magnificent room has been provided in the new building for the use of the Forest Club.

The club has issued the *Forest Club Annual* regularly since 1913. This publication has been devoted to articles and illustrations of the college; to scientific and popular articles about forestry and to a complete roster of students and alumni. In April, 1922, the annual was superseded by an illustrated magazine known as the *University of Washington Forest Club Quarterly*. The subscription price is \$1 a year. It is devoted largely to Western forestry and lumbering problems.

Officers of the club for the year 1927-1928 are: President, A. W. Blue; vice-president, Charles H. Overbay; secretary-treasurer, Cass B. Roberts; editor, Charles H. Overbay.

FIELD INSTRUCTION AND SUMMER WORK

Much of the instruction in technical forestry and lumbering is given in the field, in nearby forests, logging camps, saw mills, woodworking plants, and plants that manufacture equipment. This work is intensely practical and enables the student to correlate theoretical class room instruction with its application in the field.

Students in forestry are urged to spend their summer vacations in some line of practical work connected with the forest industry. The college is situated in the heart of a great lumbering section and near extensive national forests which offer ample opportunity for summer employment. Students not only acquire valuable experience in this way, but earn a considerable portion of their university expenses. The college cooperates with the industries in placing students and graduates in the positions for which they are best fitted.

FORESTRY AND LUMBERING LABORATORIES

For description of Laboratories, see page 43.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53. section, page 220.

SPECIAL REQUIREMENTS OF THE COLLEGE OF FORESTRY

In addition to the three units of English and the two units of mathematics required for admission to all colleges of the University, it is recommended that a student expecting to enter the College of Forestry should elect his work so as to offer the following subjects:

Advanced Algebra..... $\frac{3}{4}$ unit Physics.....1 unit

Advanced Standing.—Credit will be given for subjects pursued at other colleges of recognized rank upon presentation to the registrar of certificates that such subjects have been satisfactorily completed. Graduates in this institution and others of similar rank are admitted to graduate standing.

Undergraduate Work.—For the degree of bachelor of science in forestry (B.S.F.) the student must complete, in addition to required subjects outlined in the curriculum, at least 46 credits in subjects selected from forestry, lumbering, engineering, or the botanical, chemical, zoological, geological or economic sciences, the subjects to be approved by the student's class adviser. A candidate for the degree must present credits in one of the following advanced courses: Forestry 184, 187, 190 or 196. In no case shall more than 25 elective credits in any department other than forestry be allowed for graduation. Exclusive of shop and military science, 180 credits are required for graduation. Candidates for the degree must receive grades of A, B, or C in at least three-fourths of the credits required for the degree.

Graduate Work.—Two advanced degrees are offered to students who have received the bachelor's degree at this University or other institutions of equal rank, and have a satisfactory knowledge of the fundamental sciences. The candidate for the degree of master of forestry (M.F.) must earn 225 credits at this University, of which at least 78 are in approved technical forestry subjects. The candidate for the degree of master of science in forestry (M.S.F.) must present a minor in one or two subjects in the College of Science. In addition to these requirements the candidate for either degree must present a thesis embodying results of independent research and pass an oral examination open to all members of the faculty. Only grades of A and B can be counted toward a graduate degree.

For more detailed information on graduate work, see Graduate School section, page 220.

SPECIAL OPPORTUNITIES FOR ADVANCED WORK

The physical equipment of the College of Forestry and the exceptional advantages of its location are particularly advantageous for graduate students. The advanced courses include forest geography, silviculture, management, wood technology, timber physics, wood preservation, advanced forest products, the business of lumbering, and research. A graduate from a college of forestry of equal rank with the College of Forestry of this University may complete the requirements for the advanced degree in one year. Graduates from other institutions of equal rank which give no courses in technical forestry may complete the required work in two years, providing they have training in the fundamental sciences, mathematics and surveying.

SCHOLARSHIPS AND PRIZES

The Charles Lathrop Pack Prize.—Charles Lathrop Pack, president of the American Tree Association, offers an annual prize of \$50 for the best essay by a student majoring in forestry. The subject shall be chosen with reference to interesting the general public in forestry matters.

Xi Sigma Pi Honor Roll.—The University of Washington chapter of Xi Sigma Pi, national forestry honor fraternity, has provided a mounted silver

scroll, upon which the name of the freshman member of the Forest Club attaining the highest scholastic average will be inscribed yearly.

ORGANIZATION OF THE CURRICULUM

The curriculum of the College of Forestry is organized to give the student a broad general training in his first two years' attendance with opportunity for specialization in the two final years. Enough elementary technical work is included in the lower division to give the student definite preparation for some practical field of work by the end of his freshman or sophomore year.

A very fair degree of specialization can be made in the four-year undergraduate course, but a year of graduate work is advised for more thorough specialization. The College of Forestry offers work for thorough specialization in (1) forest service and state work, and the management of private forest holdings; (2) logging engineering; (3) forest products; (4) milling and marketing of lumber. Upon beginning work in the upper division students must elect to follow one of these specialties.

Arrangements may also be made for specialization in forest pathology, forest entomology, recreation or any other lines into which a broad training in forestry enters. This may be done by substituting courses in other departments for some of the required courses in forestry. All such substitutions require the sanction of the dean and the University graduation committee.

Choice of Electives.—In election of studies students should follow the sequence of subjects as outlined in the curriculum. Deviations from the prescribed order will not be allowed by class advisers unless such deviation is imperative.

Students should decide by the end of their sophomore year in which field they desire to specialize. The student should be especially careful to register for the electives required for his advanced specialized courses as no student will be admitted to the advanced subjects who has not had the necessary prerequisites given with the course prescriptions below.

LOWER DIVISION

The lower division courses aim to give students who cannot go farther than the end of the second year, preparation for forest ranger service and training as assistants to logging engineers. On approval of the dean they will be allowed to substitute certain subjects of the junior year for some of the required freshman and sophomore work.

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
For. 1. Dend.*.....	5	Bot. 11. Foresters.....	5	Bot. 12. Foresters.....	5
2. Gen. Forestry ...	3	For. 3. Gen. For.....	3	Math. 56. Foresters....	3
5. Woodcraft	2	Math. 52. Coll. Alg... 4		For. 4. Protectionf....	3
Math. 51. Trig.....	4	G.E. 7. Drawing.....	3	C.E. 56. For. Survey... 5	
English 4. Comp.....	3	C.E. 55. For. Survey.. 2		Phys. Ed. or Mil. Sci... 1%	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%			

SECOND YEAR

For. 57. Silvics.....	5	Chem. 2. Gen. Chem... 5		For. 51. Mensuration... 5	
7. Protection	3	For. 58. Silvicult.....	5	52. Mensuration 5	
Chem. 1. Gen. Chem... 5		53. Construction 3		59. Silviculture	6
Pol. Sci. 101.....	2	English 5. Comp.....	3	Phys. Ed. or Mil. Sci... 1%	
Phys. Ed. or Mil. Sci... 1%		Phys. Ed. or Mil. Sci... 1%			

Suggested Electives

Geol. 1a. Materials.... 3	Eng. Shop 53. Foundry. 1	Eng. Shop 54. Forge... 1
1b. Topography		

*Also offered in spring quarter.

†Also offered in winter quarter.

UPPER DIVISION

Beginning with the Upper division the student will, with the approval of his faculty adviser, elect to follow one of the specialties in forestry. In registering for upper division courses he must include all electives required as prerequisites for the advanced specialized courses. (See prerequisite list under Description of Courses, Forestry 184, 187, 190, 196.)

THIRD YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
For. 101. Technol.....	5	For. 105. Preservation..	3	For. 158. Util.....	5
Physics 1. General.....	5	Physics 2. General.....	5	Physics 3. General.....	5
		For. 104. Tim. Tests... 5		Econ. 3. General.....	3

Suggested Electives

M.E. 82. Steam Engr... 3	B.A. 65. Accounting... 5	B.A. 56. Bus. Law... 3
C.E. 22. Log. R.R.... 4	55. Bus. Law..... 3	Chem. 111. Quant. Anal. 5
B.A. 54. Bus. Law.... 3	M.E. 85. Steam Engr.	H.E. 104. Nutrition... 2
Bot. 111. Pathology... 5	Lab. 3	Chem. 101. Qual. Anal.. 5

FOURTH YEAR

For. 151. For. Finance. 3	For. 126. Econ..... 3	All elective.
153. Gen. Lbr..... 5	162. For. Organ.... 3	

Suggested Electives

For. 185. Log. Engr... 4	For. 184. Mfg. Prob... 3	For. 187. Log. Engr...16
183. Milling 5	186. Log. Engr. 4	189. Wood Pulp 5
119. Admin. 3	188. Theory & Prac.	160-162. Invest'n ...1-5
	of Kiln Drying... 5	190. Adv. Pres. 3
	194. Seminar 3	196. For. Mgmt. ... 8

GRADUATE

The following subjects are primarily for graduate students. Seniors will be allowed to elect them only on recommendation of the dean and the instructor concerned. With the exception of the thesis none of the subjects, strictly speaking, is required, but the student will elect all those belonging to one specialty as determined on consultation with his faculty adviser. A sufficient number will have to be taken to fulfill the requirements for the master's degree. Nine credits only will be allowed for total thesis credit.

For. 202. Thesis.....3-6	For. 202. Thesis.....3-6	For. 202. Thesis.....3-6
201. For. Geog. 3	200. Seminar 3	223. Adv. Mgmt. ... 8
208. Seminar 3	214. Research .....1-5	224. Adv. Milling and
221. History 3	Elective .....10	Marketing 5
213. Research .....1-5		215. Research .....1-5

COURSES OF STUDY

For description of courses offered by the College of Forestry, see Departments of Instruction section.

SCHOOL OF LAW

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern)....*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

Scheweppe, Alfred John, A.M. (Wisconsin), LL.B. (Minnesota)....*Professor of Law; Dean of the School of Law*
Lantz, Harvey, A.M. (De Pauw), LL.B. (Kent).....*Professor of Law*
Goodner, Ivan Wilbur, LL.B. (Nebraska).....*Professor of Law*
Bissett, Clark Prescott, A.B. (Hobart), Litt.D. (Lincoln University)....*Professor of Law*
Ayer, Leslie James, B.S., J.D. (Chicago).....*Professor of Law*
O'Bryan, Joseph Grattan, A.B. (Jesuit College).....*Professor of Law*
Nottelman, Rudolf H., A.M. (Illinois), LL.B. (Yale).....*Professor of Law*
Martin, Charles Emanuel, Ph.D. (Columbia).....*Professor of Political Science*
Beardsley, Arthur Sydney, LL.B., B.S. (Lib. Sci.), Ph.D. (Washington)....*Law Librarian and Lecturer on Law*

ORGANIZATION AND EQUIPMENT

General Statement.—The School of Law was established in 1899. It is a member of the Association of American Law Schools, which was organized in 1900 to set and maintain high standards of legal education, and which comprises the leading law schools of the country, membership being dependent on maintaining the standards set by the Association. Moreover, the School of Law is approved by the Council on Legal Education and Admission to the Bar of the American Bar Association.

The object of the School of Law is to provide a thorough training in the law and to prepare students for practice in any state or jurisdiction where the Anglo-American legal system prevails. Particular attention is given to the statutes, the special doctrines of law, and the rules of practice that obtain in the state of Washington. Instruction is given by use of the case system. This method of teaching law, which has been approved by experience and which is now employed in the leading law schools of the country, has the threefold merit of enabling the student to acquire a thorough and practical knowledge of legal principles, to develop the power of independent legal reasoning, and to become familiar with those processes of legal thinking which have determined the form and character of our jurisprudence, and which will govern its future development. The faculty is composed chiefly of resident professional law teachers who devote their entire time and energy to teaching. The courses in practice are taught by men experienced in practice at the Washington bar. In addition, lectures on special topics are given by distinguished lawyers and judges selected primarily from the bar of the state of Washington.

The Law Building.—The School of Law occupies the upper floor of Commerce Hall. The law library occupies the whole north end, and an idea of its roominess may be gained from its dimensions, which are, exclusive of stacks, forty by seventy feet. There is a large consultation room, twenty-five feet square, adjoining, four large lecture or recitation rooms, and a large room fitted and used exclusively for a trial court. Every convenience and improvement tending to add to the efficiency of the student, from an equipment standpoint, is present.

The Libraries.—The University law library contains 53,563 volumes, including the reports of the courts of last resort, the reported lower courts of several states and the Canadian and English courts. The latest revisions

of all the state statutes and a large collection of the session laws of the various states, including a complete set of each of the Pacific Coast states, are useful features.

The University general library contains 190,414 volumes. It is especially strong in reference works.

The Seattle public library, containing around 412,882 volumes, is open to the free use of students and is within easy distance of the campus by street car.

State and United States Courts.—The School of Law is located within a few minutes ride of both the federal and state courts sitting in Seattle. The United States District Court is in session and trying cases almost constantly, and the United States Circuit Court of Appeals for the Ninth Circuit holds a session in Seattle each autumn. The superior court for King county with thirteen departments, the justice courts, the municipal police court, and the juvenile court are in session in Seattle throughout the school year, and enable the student abundantly to witness the trial of actual cases. The Supreme Court of the State of Washington is situated within comparatively easy reach at Olympia and affords the student casual opportunity of hearing the argument of state appeals.

GENERAL INFORMATION

Quarter System.—The quarter system prevails in the School of Law. Each quarter is approximately twelve weeks in length. Credit is given usually on the basis of one credit representing a recitation or lecture one hour per week per quarter. The total hour values of courses prevailing in the schools of the Association of American Law Schools have been generally retained—e.g., courses formerly given two hours per week per semester, under the quarter system are given three hours per week per quarter.

Fees.—A general tuition fee of fifteen dollars (\$15) a quarter for persons who have been domiciled in the state of Washington or territory of Alaska, for at least one year prior to date of registration, and of fifty dollars (\$50) per quarter for all others, is charged in the Law School, payable at the beginning of each quarter. A law library fee of ten dollars (\$10) per quarter is also charged all law students, payable at the beginning of each quarter. A diploma fee of five dollars (\$5) is charged all students to whom diplomas are issued.

Prospective students from outside the state of Washington should bear in mind certain fundamental legal principles governing the question of resident or non-resident tuition.

(a) The legal word "domicile" and the word "residence" are not equivalent terms; domicile requires more than mere residence.

(b) No one can acquire a domicile merely by residence in the state of Washington when such residence is for the purpose of attending an institution of learning.

(c) The domicile of a minor is that of his father; in the event of the death of his father, that of his mother; in the event of the divorce of his parents, that of the parent to whom legal custody of the minor is awarded; in the event of the death of both parents, that of the last deceased parent, until changed by a duly appointed legal guardian.

Every non-resident student will be expected to file a statement of his residence status when first applying for entrance to the University. Blanks for this purpose will be supplied by the University and must be filled out and returned before registration can be completed.

For information on other general University fees and expenses applicable to all students, see General Information section.

Admission to the Bar.—The University of Washington School of Law is by law the standard of approved law schools for admission to the bar of

this state. Students intending to practice in the state of Washington should consult the dean of the Law School on entering the school, and register in accordance with the rules of the State Board of Law Examiners.

Professional Standard of Minimum Training.—The following resolution was adopted by the American Bar Association, September 1, 1921. It was approved by a national conference of state and local bar associations, February 24, 1922.

"(1) The American Bar Association is of the opinion that every candidate for admission to the bar should give evidence of graduation from a law school complying with the following standards:

"(a) It shall require as a condition of admission at least two years of study in a college.

"(b) It shall require its students to pursue a course of three years' duration if they devote substantially all of their working time to their studies, and a longer course, equivalent in the number of working hours, if they devote only a part of their working time to their studies.

"(c) It shall provide an adequate library available for the use of the students.

"(d) It shall have among its teachers a sufficient number giving their entire time to the school to insure actual personal acquaintance and influence with the whole student body.

"The Council on Legal Education and Admission to the Bar is directed to publish from time to time the names of those law schools which comply with the above standards and of those which do not and to make such publications available so far as possible to intending law students."

As stated, the University of Washington Law School is approved by the council.

ADMISSION AND GRADUATION

Regular Students.—Students of the College of Liberal Arts, desiring to be admitted to regular standing in the Law School, must have completed the requirements of the lower division of the College of Liberal Arts. (See Liberal Arts section, page 91). Students of the College of Science, desiring to be admitted to regular standing in the Law School, must have attained junior standing in the College of Science of this University. (See College of Science section, page 113). Students may present acceptable credits or pass examinations equivalent to these requirements. Students who are not, and cannot qualify as, Liberal Arts or Science students within the meaning of the foregoing regulations, may be admitted to the Law School upon the completion of three years' work leading to a bachelor's degree in the University of Washington or any institution ranking therewith, provided further, that such work shall meet with the approval of the dean of the Law School.

Candidates for admission to the Law School may be admitted upon presenting an official statement of graduation and degree received from an accredited institution or other credentials showing the completion of the requisite college work to the Registrar of the University of Washington, Seattle, Washington.

Special Students.—No person will be admitted as a special student in law, unless he is twenty-three years of age and his general education is such as to entitle him to take the state bar examination. Special students are admitted only in exceptional cases and never in excess of ten per cent of the entering registration.

A special student may become a candidate for a degree by complying with all the entrance requirements as above set forth in reference to regular students.

Advanced Standing.—The candidate for graduation must spend three college years in residence, either at this Law School or at some other school which is a member of the Association of American Law Schools. If in addition to satisfying the entrance requirements for regular standing in the Law School, the student has earned credits at such other law school, by regular attendance for at least one academic year of not less than eight months, he will ordinarily receive credit for such work, subject to the following restrictions: The work must equal in amount and character that required by this Law School. Not more than two years' credit will be allowed for such work. (No advanced credit for law work done elsewhere will be allowed except in accordance with the regulations of the Association of American Law Schools.) The right is reserved to refuse advanced credit in law in whole or in part, save upon examination, and credit, once given, may be withdrawn for poor work in this school. Candidates for admission with advanced standing should forward a transcript of their record in both pre-legal and law work. Candidates for a degree, with advanced standing, must spend at least one full college year in the Law School.

No credit is given for time spent in private reading or for study in a law office.

Combined Curricula in Arts or Science or Business Administration and Law.—It is possible to obtain the degrees of bachelor of arts or bachelor of science, or bachelor of business administration and bachelor of laws, in six years. The requirements of this plan are fully explained hereafter under the three-year pre-law curriculum. (See page 200).

Credit Requirements.—A minimum total of 135 hours or credits in strictly law subjects is required for completion of the law course. A student earning an average of fifteen hours or credits in each quarter can therefore qualify for graduation in nine quarters or three college years. Except upon special permission from the dean of the law school, students are limited to fifteen hours per quarter.

Students, unless they be of exceptional ability and industry, who find it necessary to devote a considerable portion of their time and energy to work not connected with their law studies are strongly advised to limit their work in the Law School to not more than twelve credit hours per quarter and thus spread the period of their study of law over four years.

A student who has failed in any course, must repeat it and obtain credit in it before graduation.

Autumn Quarter Entrance.—Students beginning the study of law cannot be registered for the full fifteen-hour course except when entering at the first or autumn quarter, and can enter advantageously only at that time.

Registration.—Students should register before the opening of the quarter, conformably to the general regulations of the University. Class-work in all subjects begins promptly on the opening day of the quarter, and those who join their classes later will necessarily be seriously handicapped in their work. No student will be admitted to classes unless he presents himself, properly registered, within one week after the commencement of the quarter.

Scholarship Requirements.—Not less than three-fourths of the credits required for graduation must be earned with grades of A, B, or C.

Special Lectures.—Attendance upon all special lectures is required.

Practice Court Requirements.—All students in the Law School may be required to serve as jurors or witnesses in any proceedings before the practice court.

Thesis.—It is the desire of the faculty to encourage original investigation and research by students. Each candidate for a degree in June is required to prepare and deposit with the dean of the Law School, on or before May first of his senior year, a thesis of not less than thirty folios in length, on some legal topic selected by the student and approved by the faculty. It must be printed or typewritten, and is to be kept permanently in the library of the Law School. Candidates for graduation at the end of the autumn or winter quarter must deposit their theses with the dean of the Law School on or before December 1 and March 1, respectively.

Each senior expecting to be graduated in June must select his thesis subject and file his selection in writing with the dean on or before November 15 of his senior year. A senior expecting to be graduated at the end of some quarter other than the spring quarter must file his thesis subject with the dean three quarters before the time of graduation. Upon filing the selection of his subject, the student will be assigned to one of the members of the law faculty as thesis adviser and will be required to consult with his thesis adviser at regular intervals and report his progress. No thesis will be accepted by the dean as fulfilling the thesis requirement unless it has been first approved in writing by the thesis adviser, and unless all of the thesis regulations have been complied with.

Degrees.—The degree of bachelor of laws (LL.B.) will be conferred on all students who comply with the entrance and scholarship requirements for regular students stated hereinbefore, remain in residence in the Law School for three school years, successfully complete all the law work in the Law School, aggregating 135 credits, and comply with the rules and regulations of the faculty and board of regents of the University. Those who maintain a uniformly distinguished record for excellence in their courses will receive this degree *cum laude*.

PRE-LAW STUDY

General Statement.—The prospective law student should appreciate that his efficiency as a student and his success as a lawyer depend to a large extent upon his preliminary education. The law is a specialized study demanding intellectual maturity and training at least equal to that required in other advanced university courses. To secure this preparation the University requires all candidates for degrees to have at least two years of college work prior to admission to the law school. It is to be noted, as also pointed out in the American Bar Association resolution set forth on page six, that two years is the minimum and not the maximum; the completion of four years of college work before beginning the study of law or at least taking the combined six-year course in arts or science or business administration and law is strongly recommended. Some law schools already require four years of college and a bachelor's degree for entrance.

Since the law touches every human interest, a broad general education is desirable. There are no specific subjects that must be mastered as a condition precedent to studying law, in the same sense in which a prospective student of medicine must acquire a knowledge of chemistry, physics, and biology as specific tools for the study of medicine; the law requires primarily a mind trained to precision of thought, coupled with a sufficient knowledge of the history of English and American institutions and civilization to appreciate the economic and social forces behind our legal institutions. Some subjects of pre-law study are valuable on the ground of mental discipline and training, others perhaps more on informational grounds. Examples of the first group, by no means all inclusive, are mathematics, ancient and modern languages, natural and physical science; examples of the second group are English and American history, ancient and modern history, and studies of a similar nature. The object of a pre-legal education is usually best attained by the student's following his strongest interest,

since that procedure ordinarily will result in the largest mental development, but he should at the same time guard against a too narrow range of intellectual pursuits. Generally speaking, in view of the exacting requirements of a lawyer's work, his position in the community, and the best traditions of the profession, the prospective law student should select subjects promotive of precision of thought, breadth of knowledge, and general culture.

PRE-LAW CURRICULUM—TWO-YEAR COURSE IN LIBERAL ARTS OR SCIENCE

Admission.—To be admitted from the College of Liberal Arts to regular standing in the Law School, students who are candidates for the LL.B. degree only must have earned 90 credits (a normal two years' work) and have completed the requirement of the lower division prescribed for the College of Liberal Arts. (See College of Liberal Arts section, page 98). To be admitted from the College of Science to regular standing in the Law School students who are candidates for the LL.B. degree only must have earned 90 credits (a normal two year's work) and completed the requirements prescribed for the attainment of junior standing in the College of Science. (See College of Science section, page 107).

Transfer Students.—Students who transfer from other institutions with advanced standing, but who have acquired less than two full years of liberal arts or science credits in their respective institutions, and who are not entitled to 90 liberal arts or science credits in accordance with the credit computation system of this University, nor have completed the requirements of the lower division of the College of Liberal Arts or of the first two years of the College of Science of this University, or their equivalent, must satisfy all of the local requirements before they will be admitted to the Law School. Students who transfer from other institutions with advanced standing, and who have acquired at least two full years of liberal arts or science credit in their respective institutions, and are entitled to 90 liberal arts or science credits in accordance with the credit computation system of this University, but who have not completed the requirements of the lower division of the College of Liberal Arts or of the first two years of the College of Science of this University, or their equivalent, may be held to earn such additional liberal arts or science credits as the dean of the Law School may impose as a condition for entrance to, or graduation from, the Law School. The object of this provision is to bring about a fair and reasonable leveling between the preliminary training offered by students from this University and that offered by students from other institutions.

Autumn Quarter Entrance.—The Law School curriculum contemplates entrance in the autumn quarter, and the student enters advantageously only at this time. This is of such importance that in cases where there are only a few deficiencies, they should, if possible, be removed during the intervening summer quarter, or through the Extension Service.

Adviser.—From the beginning of the freshman year in liberal arts or science the adviser for pre-law students is the dean of the School of Law, or such persons as he may designate.

Required Courses.—It is of first importance that in general the required courses, when available, should be those first registered for. By this means a student will more easily avoid conflicts which, later on, may preclude him from completing the required courses in his two- or three-year pre-law curriculum.

English Recommendation.—Pre-law students are urged to take additional courses in English, especially advanced composition courses, to fit them for the correct writing and speaking of English, which are constantly demanded of the legal profession.

Electives.—The requirements of the lower division of Liberal Arts or of the first two years in the College of Science will not make a total of 90 credits. In choosing electives, the student is advised not to specialize in any particular subject or group, but rather to take one or two courses in each or several of the various groups. For a broad general training, the following are suggested:

Anthropology 51.	English 51, 52, 53.
Astronomy 1.	English 54, 55, 56.
Liberal Arts 1, 11.	English 64, 65, 66.
Latin 1-2, 3, 4, 5, 6.	English 73, 74, 75.
Business Administration 1, 2.	Political Science 1.
Business Administration 15, 16.	Political Science 118.
Business Administration 65.	Political Science 119, 120.
Sociology 1.	History 105, 106, 107.
English 40.	History 108, 109, 110.

Liberal Arts Pre-Laws.—Experience shows that many students, because of their selection of courses in the high school, do not meet the requirements for clear entrance in the Colleges of Liberal Arts or Science. Particularly is this true of the foreign language requirement in which two years' work is required in the high school. In the event no foreign language has been taken in the high school, 20 credits in one foreign language must be taken in the University, except that 15 credits in beginning Latin (Latin 1, 2, and 3) will satisfy this deficiency. Latin should be taken when possible. No university credit is allowed for clearing the deficiency in foreign language.

Three years' work in English is required for entrance to the University and the student must register for English 1 and 2 in the University. These courses should be registered for in the first and second quarters, or as soon thereafter as available.

Among the required courses in the lower division of the College of Liberal Arts are some which may have been taken in the high school, but in the event they have not, they must be taken in the University. If taken in the University, credit is, of course, given, the only effect being to cut down the student's number of electives. If U.S. history has not been taken in the high school the student must take History 57, 58, and 59 in the University. If U.S. History has been taken, but civics not taken, the student must take Political Science 1 in the University. In addition to the U.S. history requirement, one year of other history must have been taken in the high school or the student will be obliged to take two quarters (10 credits) in the University. History 1 and 2 are recommended. When these requirements are met, either in the high school or the University, all pre-law students are strongly urged, in addition thereto, to take History 105 and 108, and their sequences, throughout their sophomore year. These courses combined, fill the 10 o'clock period for the year, and therefore the student is advised during his first year to so register as to leave this period free. These courses are open to pre-law sophomores.

The student must have had either physics or chemistry one year in the high school, or take two quarters (10 credits) in either one or the other of them in the University. He must also have had botany or geology or zoology, one year in the high school, or taken two quarters (10 credits) in some one of them in the University. Experience shows that many students have not had both of the science groups. As they are laboratory courses and require two quarters' work, it is advisable to register for them as soon as available, because of possible conflict with other required courses. Courses offered in the high school as general biology will not satisfy the requirement for the second group, but where such courses consist substantially of one-half year each of botany and zoology, five hours of additional credit in one or the other will satisfy.

In the event the student has not had three years of an ancient foreign language (Greek or Latin) in high school, or its equivalent in the University, he must take two quarters (10 credits) in ancient life and literature. These courses are given under the titles of Greek and Latin, but in fact, are courses in the English language dealing with Greek and Latin life and literature. They are therefore required of all students who have had only a modern language and should also be taken by students who have had two years only of Greek and Latin and feel that they have lost touch with same. Otherwise the latter are advised to continue with their Greek or Latin and in the event they have taken Latin 1, 2, and 3, they are urged to continue with Latin 4, 5, and 6.

As to the subjects required in the first two years of the University: they are divided into four groups. Physical education or military science is required of all students. Five credits are required in philosophy. Philosophy 1, 2, 3 or 5, or any two or three of these courses may be advantageously taken. Courses in philosophy must not be registered for during the first year, and they may be postponed until the junior year, if the student contemplates a three-year pre-law course. Psychology 1 is required. Two quarters or ten credits in any one or combination of two of the following subjects are required: Economics, political science or sociology. Obviously, all are important as a background for the proper study of law, and course 1 in each, at least, should be taken.

College of Science Pre-Laws.—The foregoing suggestions as to Liberal Arts Pre-laws apply generally to Science Pre-Laws with the following exceptions: The student in science must have or acquire in the secondary school or university, mathematics, geology or astronomy, 1 year or 10 credits; chemistry, 1 year or 10 credits; physics, 1 year or 10 credits; and botany or zoology, 1 year or 10 credits. His required subjects in the University include economics, history, language and literature, philosophy, political science, psychology, sociology, 20 credits, but only 10 credits will be counted in any one of these subjects. It will be noted, therefore, that the student has 2 additional science requirements, as compared with the Liberal Arts requirement. He must have both chemistry and physics and one year or 10 credits of mathematics, geology, or astronomy. He is not, however, required to take any classical language in addition to his two years of foreign language, and in his requirements in the University, may select 20 credits among any of the subjects just above listed, limited, however, to 10 credits in any one subject.

PRE-LAW CURRICULUM—THREE-YEAR COURSE IN LIBERAL ARTS OR SCIENCE OR BUSINESS ADMINISTRATION

Combined Six-Year Course in Arts or Science or Business Administration and Law.—It is possible to obtain the degrees of bachelor of arts or bachelor of science or bachelor of business administration and bachelor of laws in six years. The requirements and suggestions for the first two years of this combined six-year course are the same as for the two-year pre-law course, with the additions hereafter stated. To have the benefit of this combined course, students must maintain a uniformly good record and must, in the first three years in their respective colleges, earn 144 credits, together with the 10 credits of required military science or physical education. To take the 144 credits in three years, the student should carry an average of 16 hours per quarter, exclusive of military science and physical education. As the Law School can be entered advantageously only at the beginning of the autumn quarter, the entire 144 credits should be completed within the customary three years, with work during an intervening summer quarter or through the Extension Service, if necessary. At the beginning of the fourth year, if a student has earned 144 credits, and 10 credits of required military science or physical education, he may enter the

School of Law and there earn 36 credits which will be counted toward his bachelor of arts or science or business administration degree. He will be granted the bachelor of arts or science or business administration degree at the end of the fourth year, or as soon as he completes the required work above specified and 36 credits in the School of Law, making a total of 190 credits for graduation in liberal arts or science or business administration. The degree of bachelor of laws will be conferred upon completion of his work in the Law School. In exceptional cases where the student lacks part of the 144 liberal arts or science credits, the dean of the Law School may, upon written petition, permit registration in the Law School, the necessary credits to satisfy the combined degree to be completed subsequently.

Selection of Major.—In the 144 credits of arts or science or business administration must be included a major of at least 36 credits, together with all the specific requirements of the respective colleges. At least one-half (18) of the credits in the major must be earned in upper division courses. The major must be selected by the student taking the combined six-year course upon acquiring junior standing (which is usually at the commencement of his third year of liberal arts or science or business administration study), pursuant to the regulations relating to majors prescribed for the Colleges of Liberal Arts or Science or Business Administration. (See sections relating to those colleges). Any of the majors there enumerated may be profitably pursued by pre-law students.

Upper Division Courses.—As one of the requirements for the bachelor of science or bachelor of arts is 60 credits earned in upper division courses, (courses numbered above 100), and as the 36 credits of law, which in the combined arts or science and law course may be counted towards this degree, are all upper division credits, it follows that at least 24 of the 144 referred to must also be in the upper division courses.

Transfer Pre-Law Students.—Students from other institutions entering this University with advanced standing may take advantage of this combined six-year course, provided they are registered in the Colleges of Liberal Arts, Science or Business Administration, for at least one full year of work, and earn at least 45 credits in the University before entering the School of Law. This privilege will not be extended to normal graduates attempting to graduate in two years, nor to undergraduates of other colleges who enter this University with the rank of senior.

PRE-LAW CURRICULUM—OTHER WORK LEADING TO BACHELOR'S DEGREE

General Statement.—Students who are not, and cannot qualify as, Liberal Arts or Science students within the meaning of the foregoing regulations, may be admitted to the Law School upon the completion of not less than three years' work leading to a bachelor's degree in the University of Washington, or any institution ranking therewith, provided further, that such work shall meet with the approval of the dean of the Law School.

SUMMER SCHOOL

General Statement.—Courses are offered each summer by the Law School for both beginning and advanced students. Different courses, later to be announced, are offered successive summers. This work counts toward a degree as a part of the regular instruction of the Law School.

MISCELLANEOUS INFORMATION

Washington Law Review.—The *Washington Law Review* is a legal publication issued quarterly during the year under the direction of the law

faculty with the assistance of a student board of twelve to fifteen members chosen from the ablest students in the Law School. *The Review* serves as a medium of expression for the legal scholars of Washington and elsewhere, and is devoted particularly to the interpretation, advancement, and harmonious development of the law. *The Review* contains scholarly articles by judges and lawyers and discussions of important recent court decisions by students in the Law School, based on thorough research. A place on the student editorial board is one of the goals of every earnest law student, and the experience is invaluable to him in his later professional life.

The Order of the Coif.—The Order of the Coif is a national honorary legal society with a chapter at this Law School. The order has for its purpose the encouragement of scholarship and the advancement of the ethical standards of the legal profession. Membership in the order is dependent entirely upon the attainment of high scholastic standing. Each chapter annually elects from the senior law class a number of persons, not exceeding ten per cent of the class, ranking highest in scholarship; provided, that any person whose character unfits him for membership in the Order may be rejected.

The Carkeek Prize.—Mr. Vivian M. Carkeek of Seattle offers an annual cash prize of \$25 for the best student contribution to *The Washington Law Review* by a member of the senior class on a point of Washington law, or any point of peculiar interest to Washington attorneys.

The Jaggard Prize.—Miss Anna Wright Jaggard, daughter of the late Edwin Ames Jaggard, LL.D., justice of the supreme court of Minnesota, offers an annual cash prize of \$50 for the best thesis submitted by members of the senior class, candidates for the degree of bachelor of laws, on a subject in the courses of history of the law or jurisprudence.

Instruction in Other Departments.—Law students may elect studies, for which they are prepared, in other departments of the University without charge, except that in laboratory courses the usual laboratory deposits will be required; provided, that such election does not interfere with their law studies. Before registering in other departments, the student must obtain written permission from the dean of the Law School.

INQUIRIES

General Statement.—Further particulars as to any phase of the work of the Law School not given herein, or in the General Information section, will be cheerfully given upon request. Communications addressed at any time to the Dean of the Law School, University of Washington, Seattle, Washington, will receive prompt attention.

COURSES OF STUDY

For description of courses offered by the School of Law, see Departments of Instruction section.

COLLEGE OF MINES

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern)..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-29

Roberts, Milnor, A.B. (Stanford).....*Professor of Mining Engineering and Metallurgy;*
Dean of the College of Mines
Daniels, Joseph, M.S. (Lehigh).....*Professor of Mining Engineering and Metallurgy*
Wilson, Hewitt, Cer.E. (Ohio State University).....*Professor of Ceramics*
Corey, Clarence Raymond, E.M. (Montana State School of Mines), A.M. (Columbia),
Assistant Professor of Mining Engineering and Metallurgy
Powell, Frederick, E.M. (Columbia).....*Lecturer on Gold Dredging*
Schoning, John G.....*Foreman Miner in charge of Mine Safety Station, U.S. Bureau*
of Mines
Herdlick, Jared A.....*Assistant in Mining*

Benson, Henry Kreitzer, Ph.D. (Columbia).....*Professor of Chemical Engineering*
Kincald, Trevor, A.M. (Washington).....*Professor of Zoology*
Osborn, Frederick Arthur, Ph.D. (Michigan).....*Professor of Physics*
Moritz, Robert Edouard, Ph.D. (Nebraska), Ph.N.D. (Strassburg).*Professor of Mathematics*
Magnusson, Carl Edward, Ph.D. (Wisconsin).....*Professor of Electrical Engineering and*
Dean of the College of Engineering
Eastwood, Everett Owen, C.E., A.M. (Virginia), S.B. (Massachusetts Institute of
Technology).....*Professor of Mechanical Engineering*
Hall, David Connolly, Sc.M., M.D. (Chicago).....*Professor of Hygiene*
More, Charles Church, M.S., C.E. (Lafayette), M.C.E. (Cornell).....*Professor of*
Structural Engineering
Wilson, George Samuel, B.S. (Nebraska).....*Professor of Mechanical Engineering*
Harris, Charles William, C.E. (Cornell).....*Professor of Hydraulic Engineering*
Loew, Edgar Allen, E.E. (Wisconsin).....*Professor of Electrical Engineering*
Carpenter, Allen Fuller, Ph.D. (Chicago).....*Professor of Mathematics*
Tartar, Herman Vance, Ph.D. (Chicago).....*Professor of Chemistry*
Milliman, Loren Douglas, A.B. (Michigan).....*Associate Professor of English*
Brakel, Henry Louis, Ph.D. (Cornell).....*Associate Professor of Engineering Physics*
Gavett, George Irving, B.S. (C.E.) (Michigan).....*Associate Professor of Mathematics*
Goodspeed, George Edward, S.B. (Massachusetts Institute of
Technology).....*Associate Professor of Geology*
Schaller, Gilbert Simon, B.S. (Illinois), M.B.A. (Washington).....*Assistant Professor of*
Shop Engineering

ADVISORY BOARD OF COLLEGE OF MINES

UNIVERSITY OF WASHINGTON

White, Eugene A.....*Metallurgist, Superintendent Tacoma Smelter*
Tacoma.
Erikson, John.....*Mine Operator*
Erikson Building, Seattle.
Fosseen, A.B.....*President and General Manager Washington Brick, Lime and Sewer Pipe Co.*
Spokane.
Heffernan, J. T.....*President of the Heffernan Engine Works, Mine Operator*
108 Railroad Avenue South, Seattle.
Hussey, Charles.....*General Manager of Estate of John A. Finch, Mine Operator*
Empire State Building, Spokane.
MacMichael, Paul S.....*Northern Manager and Vice-President Gladding-McBean Co.*
Dexter Horton Building, Seattle.
Rust, W. E.....*Founder of the Tacoma Smelter, President of Tacoma Exploration Company*
Rust Building, Tacoma.
Moore, Nathaniel D.....*General Manager Pacific Coast Coal Company*
Seattle.

STAFF OF NORTHWEST EXPERIMENT STATION

UNITED STATES BUREAU OF MINES, DEPARTMENT OF COMMERCE

Bird, Byron Matthew, B.S. (Met.E.) (Washington).....*Supervising Engineer*
Yancey, Harry Fagan, Ph.D. (Illinois).....*Associate Chemist*
Johnson, Kenneth A, B.S. (Washington).....*Junior Chemist*

SCOPE AND FACILITIES

Degrees.—The College of Mines offers specialized training in mining engineering, metallurgy, and ceramics. The four-year curricula lead to degrees as follows:

- I. Bachelor of science in mining engineering, B.S. (Min.E.)
- II. Bachelor of science in geology and mining, B.S. (Geol. and Min.)
- III. Bachelor of science in metallurgical engineering, B.S. (Met.E.)
- IV. Bachelor of science in coal mining engineering, B.S. (Coal Min. E.)
- V. Bachelor of science in ceramic engineering, B.S. (Cer.E.)

The degree of engineer of mines (E.M.) is given to graduates in mining engineering who have practiced their profession for at least three years and who present a satisfactory thesis. Graduates in metallurgy may receive the degree of metallurgical engineer (Met.E.) under similar conditions, and the appropriate advanced degrees are also open to graduates of other curricula.

Mining and Metallurgical Industries Available for Study.—Mining machinery of many kinds is in operation within easy reach of the University. Much of the heavy mining machinery used in the neighboring states and Alaska is built in Seattle, while patented machines, such as drills and concentrating tables, are kept in stock and as working exhibits by the firms that supply the North Pacific coast regions. More than 40 eastern firms dealing in mining equipment make their Seattle branches the distributing center for the Pacific Northwest, British Columbia and Alaska. Methods important to the mining engineer are illustrated in Seattle by the operations of the steam shovels, excavators which are largely used in iron and copper mining. The engineers in charge of these plants have given the mining students every opportunity to become familiar with the methods of planning and carrying on the work, and the same statement applies to the mine operators throughout the state.

Other available works of interest include coal mines and coke ovens, with the largest production west of the Rocky mountains; gold, silver, copper, lead, magnesite, and diatomite mines; large cement plants, several stone quarries and dressing works; clay mines, clay terra cotta and pottery works, gravel and sand pits with large production and modern methods; a region of varied geology with many economic minerals; the Tacoma smelter and refineries; the U.S. assay office; the Northwest Lead works; the West Seattle steel plant of the Pacific Coast Steel Co., numerous foundries, and plants engaged in electro-metallurgical work.

Instruction for Coal Mining Men.—Miners taking the rescue training also receive instruction in the College of Mines on the subjects of mine gases, explosions, and the origin and distribution of Pacific Coast and Alaska coals. Laboratory experiments are carried on to show the methods of analyzing coals and determining the uses to which they can be put. The methods of testing for permissible explosives at the Pittsburgh station and the safe methods of charging, tamping, and firing are explained. Coal men interested in the washing of coals are given full practice with the several types of apparatus used for this purpose.

Laboratories.—For description of mining, metallurgical and ceramic laboratories, see page 45.

MINING, METALLURGICAL, AND CERAMIC RESEARCH

The purpose of this department is to encourage development in the mining, metallurgical, and ceramic industries of Washington, the Pacific Northwest and Alaska by research in the special problems presented, and to solve the problems through the efforts of fellowship holders and others studying in the department.

Graduates from suitable technical courses at institutions of recognized standing, or men who present evidence of technical training which has fitted them to undertake investigations, are eligible to enroll in mining and metallurgical research. The degree of master of science may be granted students

holding suitable bachelor of science degrees who complete investigative work in compliance with the University requirements for the master's degree. Although as much latitude as possible will be allowed in the choice of subjects for research, the general topics will be those of special importance to this region.

Research Fellowships.—The College of Mines offers five fellowships for research in coal and non-metallic, in cooperative work with the United States Bureau of Mines. The fellowships are open to graduates of universities and technical colleges who are properly qualified to undertake research investigations. The value of each fellowship is \$720 to the holder, for the twelve months beginning July 1. Fellowship holders pay tuition and laboratory fees, but are reimbursed for the amounts so expended; they register as graduate students and become candidates for the degree of master of science in the proper subject, unless an equivalent degree has previously been earned.

Each applicant should send a copy of his collegiate record from the registrar of the college where he has graduated, or will graduate in June. He should also send a photograph and a detailed statement of his professional experience, if any, and give the names and addresses of at least three persons who are familiar with his character, training and ability. Applications should be submitted if possible by April 20 in order to allow ample time for consideration, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

Appointees to the fellowship report for duty on July 1, and are required to be on duty the entire year except that in case of reappointment for a second year, the fellowship holder is given a vacation from June 15 to July 1.

For the year 1928-1929 the following subjects have been selected for investigation: 1. Coal. (a) Beneficiation: Coal washing. Application of ore dressing principles to cleaning of coal; (b) Utilization: Briquetting of low grade coals and other utilization problems.

2. Non-Metallic Materials. (a) Purification: Washing of kaolin and ochres; (b) Problems in drying certain non-metallics; (c) Efficiency studies in kiln-heating.

Arthur A. Denny Fellowship.—To encourage graduate work a fellowship of \$500 annual value is open to students in the College of Mines who are residents of the state of Washington. It is awarded for scholastic excellence and general merit, but only to students who need financial assistance. Applications must be made to the Dean of the College before March 15 preceding the academic year for which the fellowship is to be granted.

Investigations of Problems.—Under certain conditions, the University will permit mining, metallurgical, and ceramic companies who have special problems for solution, to detail a representative to work on such problems, or to meet the expense of engaging a man to do so. Experiments which can be carried on as readily in commercial laboratories and which do not require direction from the College's experts are not undertaken. The research is done under the direction of the department, and complete records of all the data obtained are filed with the department, which reserves the right to publish this information for the benefit of the mining, metallurgical and ceramic industries.

Mining Society

The Mining Society, affiliated with the American Institute of Mining and Metallurgical Engineers, has a membership composed of all students in the college. At the weekly meetings of the society addresses are made by prominent mining engineers, and papers descriptive of their summer work are presented by the student members.

Requirements for Admission

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

Advanced Standing.—Credit will be given for subjects pursued at other colleges of recognized rank upon presentation to the registrar of certificates that such subjects have been satisfactorily completed. Graduates of this institution and others of similar rank are admitted to graduate standing.

SPECIAL REQUIREMENTS FOR THE COLLEGE OF MINES

In addition to the three units of English and the two units of mathematics required for admission to all colleges of the University all students expecting to enter the College of Mines should offer the following subjects for entrance:

Advanced algebra	$\frac{1}{2}$ unit
Solid geometry	$\frac{1}{2}$ unit
Physics	1 unit

If the student has not included these subjects in his high school elections, it will be necessary for him to include them among his elections in college.

CURRICULA OF THE COLLEGE OF MINES

MINING ENGINEERING (OPTION 1)

FIRST YEAR

Autumn Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
Mathematics 51	4	Mathematics 52	4	Mathematics 53	4
Gen. Engineering 1.....	3	Gen. Engineering 2.....	3	Gen. Engineering 18.....	3
Gen. Engineering 11.....	3	Gen. Engineering 12.....	3	Gen. Engineering 21.....	3
Chemistry 1 or 21.....	5	Chemistry 2 or 22.....	5	Chemistry 23	5
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	English 100	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 21	5	Geology 1a	3	Geology 123	3
Mining 51	3	Geology 1b	2	Chemistry 111	5
Mil. Sci. or Phys. Ed..	1½	Mining 52	3	Mil. Sci. or Phys. Ed..	1½
		Mil. Sci. or Phys. Ed..	1½		

‡Mining Practice in Summer Vacation.

THIRD YEAR

Civil Engineering 181... 3	Civil Engineering 182... 3	Geology 122	2
Geology 120	Electrical Eng. 101-102. 6	Electrical Eng. 121-122. 6	
Mining 101	Geology 124	Metallurgy 102	5
Metallurgy 101	Metallurgy 168	Mining 106	1
Mechanical Eng. 54.... 1		Elective	2

FOURTH YEAR

Mining 151	3	Mining 192	2	Mining 107	1
Mining 191	2	Mining 162	4	Mining 152	5
Metallurgy 155	3	Geology 127	5	Mining 193	1
Metallurgy 162	2	Mining 108	1	Mining 182	3
Electives	3	Electives	3	Electives	4
Pol. Sci. 101.....	2				

‡Practice in mining, metallurgy, geology, or ceramics, accompanied by a report on the work performed, is required of all students during a summer vacation following the sophomore or junior year.

GEOLOGY AND MINING (OPTION II)

FIRST YEAR

(Same as for Option I)

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Mathematics 61	3	Mathematics 62	3	Geology 4	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 21	5	Geology 1a	3	Geology 123	3
Mining 51	3	Geology 1b	2	Chemistry 111	5
Mil. Sci. or Phys. Ed.	1½	Mining 52	3	Mil. Sci. or Phys. Ed.	1½

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	3	Geology 122	2
Geology 120	3	Geology 124	4	Geology 125	2
Mining 101	3	Metallurgy 103	4	Metallurgy 102	5
Metallurgy 101	5	Metallurgy 153	3	Mining 106	1
Mechanical Eng. 54	1	Electives	1	English 100	3
				Electives	2

‡Mining Practice in Summer Vacation.

FOURTH YEAR

Mining 151	3	Mining 192	2	Mining 107	1
Mining 191	2	Mining 162	4	Mining 152	5
Metallurgy 162	2	Geology 127	5	Mining 193	1
Geology 126	3	Mining 103	1	Electives	7
Geology 140	3	Electives	3		
Pol. Sci. 101	2				

METALLURGICAL ENGINEERING (OPTION III)

FIRST YEAR

(Same as for Option I)

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	English 100	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 21	5	Geology 1a	3	Chemistry 111	5
Mining 51	3	Geology 1b	2	Pol. Sci. 101	2
Mil. Sci. or Phys. Ed.	1½	Mining 52	3	Electives	1
		Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½

THIRD YEAR

Civil Engineering 131	3	Civil Engineering 132	3	Electrical Eng. 121-122	6
Mining 101	3	Electrical Eng. 101-102	6	Metallurgy 102	5
Metallurgy 101	5	Metallurgy 103	4	Mining 106	1
Mechanical Eng. 54	1	Metallurgy 153	3	Electives	3
Geology 120	3				

‡Mining Practice in Summer Vacation.

FOURTH YEAR

Mining 151	3	Mining 192	2	Mining 107	1
Mining 191	2	Metallurgy 163	3	Mining 152	5
Metallurgy 104	5	Metallurgy 165	3	Mining 193	1
Metallurgy 155	3	Geology 127	5	Metallurgy 166	3
Metallurgy 162	2	Mining 103	1	Electives	5

COAL MINING ENGINEERING (OPTION IV)

FIRST YEAR

(Same as for Option I)

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	Geology 4	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 21	5	Geology 1a	3	Chemistry 111	5
Mining 51	3	Geology 1b	2	Mechanical Eng. 81	3
Mil. Sci. or Phys. Ed.	1½	Mining 52	3	Mil. Sci. or Phys. Ed.	1½
		Mil. Sci. or Phys. Ed.	1½		

College of Mines

THIRD YEAR

<i>Autumn Quarter</i>		<i>Winter Quarter</i>		<i>Spring Quarter</i>	
	<i>Credits</i>		<i>Credits</i>		<i>Credits</i>
Civil Engineering 131...	3	Civil Engineering 132...	3	Electrical Eng. 121-122.	6
Mining 101	3	Electrical Eng. 101-102.	6	Metallurgy 102	5
Mechanical Eng. 82....	3	Mining 122	3	English 100	3
Mechanical Eng. 83....	3	Metallurgy 103	4	Mining 106	1
Geology 120	3				

‡Mining Practice in Summer Vacation.

FOURTH YEAR

Mining 151	3	Mining 192	2	Mining 107	1
Mining 191	2	Mining 171	3	Mining 193	1
Metallurgy 155	3	Mining 176	5	Mining 182	3
Mining 170	3	Mining 103	2	Mining 178	2
Mechanical Eng. 54....	1	Electives	3	Electives	7
Electives	1				
Pol. Sci. 101.....	2				

CERAMIC ENGINEERING (OPTION V)

FIRST YEAR
(Same as for Option I)

SECOND YEAR

Mathematics 61	3	Mathematics 62	3	Ceramics 90	3
Physics 97	5	Physics 98	5	Physics 99	5
Geology 21	5	Geology 1a	3	Geology 123	3
Mining 51	3	Geology 1b	2	Chemistry 111	5
Mil. Sci. or Phys. Ed..	1½	Mining 52	3	Mil. Sci. or Phys. Ed..	1½
		Mil. Sci. or Phys. Ed..	1½		

THIRD YEAR

Ceramics 100	3	Ceramics 101	3	Ceramics 102	3
Ceramics 104	3	Ceramics 105	3	Ceramics 110	2
Civil Engineering 131...	3	Civil Engineering 132...	3	English 100	3
Mining 101	3	Metallurgy 153	3	Metallurgy 102	5
Chemistry 181	5	Chemistry 182	5	Mining 106	1

FOURTH YEAR

Ceramics 121	5	Ceramics 122	5	Ceramics 123	5
Mining 191	3	Mining 192	3	Mining 107	1
Electives	5	Metallurgy 103	4	Mining 193	2
Pol. Sci. 101.....	2	Mining 103	1	Electives	7
		Electives	2		

COURSES OF STUDY

For description of courses offered by the College of Mines, see Departments of Instruction section.

‡Practice in mining, metallurgy, geology, or ceramics, accompanied by a report on the work performed, is required of all students during a summer vacation following the sophomore or junior year.

COLLEGE OF PHARMACY

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern).....*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*

THE FACULTY, 1928-1929

Johnson, Charles Willis, Ph.C., Ph.D. (Michigan).....*Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy, and State Chemist*
Lynn, Eldin Verne, B.A. (Washington), Ph.D. (Wisconsin).....*Professor of Pharmacology and Chemistry*
Langenhan, Henry August, Ph.G. (Illinois), Ph.D. (Wisconsin).....*Professor of Pharmacy*
Goodrich, Forest Jackson, Ph.C., Ph.D. (Washington).....*Assistant Professor of Pharmacy and Materia Medica*
Lofgren, Frederick V., Ph.C., M.S. (Washington).....*Instructor in Pharmacy*
Snidow, Harriet V., Ph.G., B.S. (Oregon A.C.), M.S. (Washington).....*Instructor in Pharmacy*
Turnacliff, Mary Lucille, Ph.C., B.S. (Washington).....*Assistant State Chemist*
Cain, Russell, Ph.C., M.S. (Washington).....*Assistant State Chemist*
Evans, Clementine, Ph.C., B.S. (Washington).....*Arthur A. Denny Fellowship 1927-1928.*
Metzger, Ludwig.....*In Charge of Garden of Medical Plants*

Padelford, Frederick Morgan, Ph.D. (Yale).....*Professor of English and Dean of the Graduate School*
Osborn, Frederick Arthur, Ph.D. (Michigan).....*Professor of Physics*
Frein, Pierre Joseph, Ph.D. (Johns Hopkins).....*Professor of Romanic Languages*
Weinzierl, John, Dr.P.H. (Harvard).....*Professor of Bacteriology*
Ayer, Leslie J., J.D. (Chicago).....*Professor of Law*
Cox, William E. A.M. (Texas).....*Professor of Business Administration; Dean of the College of Business Administration*
Rigg, George Burton, Ph.D. (Chicago).....*Professor of Botany*
Eckelman, Ernest Otto, Ph.D. (Heidelberg).....*Associate Professor of German*
Smith, Eli Victor, Ph.D. (Northwestern).....*Associate Professor of Zoology*

SPECIAL ANNOUNCEMENT

Discontinuance of Three-Year Courses in 1930

In the interest of better trained pharmacists in the State of Washington, the University of Washington College of Pharmacy has decided to discontinue the three-year course for students entering the college year of 1930-31. The Washington State College School of Pharmacy, Pullman, Washington, the North Pacific College of Oregon, School of Pharmacy, Portland, Oregon, and the Oregon State Agricultural College School of Pharmacy, Corvallis, Oregon, unite with this college in making the four-year curriculum the minimum course of study beginning with 1930. The Pacific Northwest Colleges of Pharmacy are united, therefore, in taking this very important step. The degree of bachelor of science will continue to be conferred on students completing any of the four-year curricula in pharmacy at the University. Students will continue to be admitted to the three-year course for the school years 1928-29 and 1929-30.

ORGANIZATION AND EQUIPMENT

The College of Pharmacy was organized in 1894 to provide opportunity for young men and women to become well trained practical pharmacists. The work of the original two-year course has been extended to three, four and five-year courses. In the three-year course training is offered in technical and commercial pharmacy; in the four-year course an opportunity is offered for training in more advanced scientific pharmacy with a liberal training in other sciences and arts. A four-year course is also offered which combines scientific training in pharmacy with business administration. The five-year or graduate course offers opportunity for more advanced training in scientific pharmacy and allied sciences and research in one of the most fertile fields of modern science. Graduate work may also be extended in courses leading to the doctorate degree.

REGISTRATION AS A PHARMACIST IN THE STATE OF WASHINGTON

1. An applicant for registration must be a graduate of a College of Pharmacy recognized by the Department of Licenses.
2. A graduate of the four- or five-year course of the *University of Washington College of Pharmacy* has the right to register as a pharmacist without further examination and without the requirement of practical experience in pharmacy. A three-year graduate must have one year of practical experience.
3. A graduate of *any two-year course* of a recognized College of Pharmacy must have two years of practical experience and pass the examination under the direction of the state department of licenses as listed in paragraph five.
4. A graduate of a recognized college of pharmacy located outside of the State of Washington may become a registered pharmacist as follows:
 - (a) A graduate of a two-year course must have two years of practical experience and pass an examination as listed under paragraph five.
 - (b) A graduate of a three-year course must have one year of practical experience and pass an examination as listed under paragraph five.
 - (c) A graduate of a four-year course is not required to have practical experience, but must pass an examination as listed under paragraph five.
5. The examination embraces the following subjects: pharmacy, materia medica, chemistry, toxicology, and posology, compounding prescriptions, identification of drugs, and laws relating to the practice of pharmacy in Washington. The grade must not be less than 60 per cent in any one subject and a general average of 70 per cent.
6. Persons who register by examination in the State of Washington can become registered in forty-three other states of the Union without further examination. Graduates of the *University of Washington College of Pharmacy* are urged to register by passing the examination as listed in paragraph five so they may have the privilege of reciprocal registration in other states without examination.
7. A registered pharmacist must be over twenty-one years of age. Persons under twenty-one shall be classified as assistant registered pharmacists until the age of majority is attained.
8. Persons registered by examination in other states may register as a pharmacist in Washington without examination other than in the subject of laws relating to the practice of pharmacy in the

state of Washington, providing such persons are graduates of recognized colleges of pharmacy.

9. Recognized colleges of pharmacy (see rule 10 of handbook on pharmacy law issued by the state department of licenses) are such colleges as hold membership in the American Association of Colleges of Pharmacy and such foreign colleges of pharmacy as meet the standards and requirements of the American Association of Colleges of Pharmacy.
10. Applicants for registration as a pharmacist should communicate with the state department of licenses, Olympia, Washington, for proper blanks and instructions. A fee of ten dollars for registration is payable to the state treasurer.

Higher Standards in Pharmacy.—The minimum course of study in the College of Pharmacy is *Three Years*. The aim of the course is to give thorough scientific training for retail pharmacists; if the student desires, he may elect certain studies in the College of Business Administration that will better fit him for the business side of retail pharmacy.

Retail pharmacy is recognized both as a profession and a business. The College of Pharmacy desires to meet these two conditions as far as possible. Special attention is given to a thorough scientific training for the compounding and dispensing of drugs and medicines. Such business training will be included as time will permit in the three-year course. Students desiring further business training can complete in one year more, the four-year combined scientific and business course. In this four-year course the student receives training in economics, psychology, business law, accounting, advertising, salesmanship and business management, useful in the every day life of the retail pharmacy.

Students desiring more extensive training in scientific pharmacy may complete the three-year course by including advanced work in prescriptions, manufacturing pharmacy, toxicology, physiological chemistry and bacteriology. Graduates of this course are trained for positions in strictly prescription stores and for work in clinical diagnosis.

Graduates of the four-year scientific courses are trained for positions as expert laboratory workers in State and Federal laboratories, bacteriologists for physicians, city boards of health, and for State and Federal laboratories, manufacturing pharmacists for large pharmaceutical houses, and as teachers in colleges of pharmacy.

It should be noted that the college sets a high standard for pharmaceutical training and that a number of opportunities are open to graduates who take the time to prepare themselves thoroughly for responsible positions.

Preparation for Medicine.—Students desiring training that will give them clear entrance to colleges of medicine and also professional training in pharmacy should refer to curriculum number 4, page 15 of this bulletin. Students completing this course receive both the Ph.C. and B.S. degrees at the end of the four-year course. Pharmaceutical training is an excellent preparation for medicine. It gives the student a knowledge of drugs and medicines that can be obtained in no other way and the graduate in pharmacy who completes medicine has the benefit of the two professions.

American Association of Colleges of Pharmacy.—The College of Pharmacy is a member of the American Association of Colleges of Pharmacy. The objects of the association are: to promote closer relations between the several colleges of pharmacy of the United States, to standardize pharmaceutical education and to encourage a higher standard of proficiency for members of the profession.

GENERAL INFORMATION

Garden of Medicinal Plants.—The College of Pharmacy maintains on the campus a garden in which plants of pharmaceutical importance are cultivated. The area and scope of this garden have been gradually extended, until the college has a complete collection of medicinal plants which furnishes valuable material for classes in botany, materia medica and drug assay, and for research.

Service to Pharmacists of the State.—It is the desire of the college to render every possible service to pharmacists of the state. We therefore invite the pharmacists to write us in regard to their prescription difficulties and manufacturing problems. Many pharmacists are now availing themselves of this privilege, and it is our wish to extend this service to the entire profession. Send your prescriptions and problems with a history of difficulties encountered to Professor H. A. Langenhan, who is in charge of practical pharmacy courses in the College of Pharmacy.

Food and Drug Analysis.—Enactment of the Food and Drug Act by Congress, and of similar legislation by most of the states (Washington included), has given great importance to pharmaceutical education. It is at once apparent that knowledge of drugs is equally important with chemistry in the administration and enforcement of this legislation. The graduate in chemistry is not wholly qualified to act as a food and drug inspection chemist for the government, states, private individuals, and corporations, if he is not trained in those subjects included in the collective name of pharmacy. These allied subjects are: Theory and practice of pharmacy, manufacturing pharmacy, drug assaying, pharmaceutical botany, study of the United States Pharmacopoeia and National Formulary, pharmacognosy, materia medica and therapeutics, etc. A great many pharmaceutical chemists are needed to carry out the analytical processes involved in the enforcement of this legislation, but the number of men adequately trained is very limited. Students with high school training are urged to consider these opportunities and to prepare themselves for such positions. The dean of the College of Pharmacy is chemist for the Washington State Department of Agriculture and is in close touch with government food and drug work. Courses are offered fitting the student for this line of work.

Women in Pharmacy.—Opportunities for women in pharmacy are as great as for men. Women are finding a place in retail pharmacy, and as hospital pharmacists, and are becoming noted for the satisfaction they give in both the scientific and business side of the average drug store. Women graduates of the four-year course are giving excellent satisfaction as food and drug chemists, bacteriologists and as teachers in colleges of pharmacy.

The Arthur A. Denny Fellowship.—The College of Pharmacy is indebted to the Arthur A. Denny estate for a fellowship that pays \$500 a year to the student selected for this honor. The fellowship is granted each year to a graduate of the four-year course in pharmacy. The graduate is selected on the basis of excellence in scholarship and promise of ability to do research work in some subject of pharmaceutical importance.

The Skagit Valley Goldenseal Farm Fellowship.—A research fellowship of \$500 is offered for study in drug plant cultivation. This fellowship is granted each year to a graduate of the four-year course in pharmacy who will work for an advanced degree.

Observation Trips.—Observation trips made each year by classes in pharmacy to various manufacturing and wholesale establishments of Seattle and to large retail stores are an important feature of the work of the college. Among places visited in 1927-28 were Stewart & Holmes Drug Company, branch houses of Parke, Davis & Co., H. K. Mulford Company

and some of the leading prescription and commercial pharmacies of the city, and to the hydrastis and ginseng farm of Mr. C. E. Thorpe near the University campus.

Laboratories.—For description of pharmacy, materia medica and chemistry laboratories, see page 46.

Library Facilities.—A branch of the University library containing books and current publications on pharmacy and chemistry is maintained in the science reading room to the general library. Many rare old books relating to the development of pharmacy and of Pharmacopoeias have been added recently.

REQUIREMENTS FOR ADMISSION

Correspondence.—Credentials and all correspondence relating to admission to any college or school of the University should be addressed to the Registrar, University of Washington. More detailed information concerning admission, registration, and expenses may be found on pages 52, 59 and 60.

Freshman Standing.—Freshman standing in the University is granted to any recommended graduate of a four-year accredited secondary school who meets the scholarship requirements outlined on page 53.

Admission to Advanced Standing.—Applicants for advanced standing are required to furnish a complete certified statement of both preparatory and college credits, together with a letter of honorable dismissal from the institution last attended.

ADMISSION BY EXAMINATION

Applicants for admission by examination are required to pass, with grades above 78 per cent in at least two-thirds* of the required work, an examination based on a four-year course totaling fifteen units and covering the requirements of the college the student wishes to enter. The passing grade is 70.

ENTRANCE EXAMINATIONS

Entrance examinations are held at the registrar's office on the following dates: July 18, 19, 20, 1928; September 19, 20, 21, 1928; and December 19, 20, 21, 1928; March 18, 19, 20 1929; June 12, 13, 14, 1929; and July 22, 23, 24, 1929. For further information see page 56.

FOREIGN STUDENTS

Students from schools in foreign countries and non-English speaking communities will be admitted under the same general conditions as those from American schools provided they have sufficient working knowledge of English, acquaintance with American methods of instruction and plans of study, to enable them to carry regular college work successfully. An examination will be required by the registrar on these supplementary points.

Students from foreign schools whose standing is not known to be the equivalent of accredited American schools may be required to pass examinations in designated subjects. A special orientation course is offered for which a special fee of (\$20) twenty dollars is charged. This may be required of students who are found to need this special training. (See page 57.)

*Three-fourths after September, 1929.

GRADUATE STANDING

Admission to the Five-year Course Leading to the Degree of Master of Science in Pharmacy.—Candidates for the degree of master of science, must have received the bachelor's degree from this college or from some other college of equal rank maintaining a four-year course which is the equivalent of the course at this institution.

DEGREES

1. The degree of pharmaceutical chemist (Ph.C.) will be conferred upon any student who has complied with the entrance conditions and completed the three-year course.
2. The degree of bachelor of science (B.S.) will be conferred upon any student who has fulfilled the entrance requirements and completed one of the four-year courses as outlined. This degree with honors may be conferred upon a student in the College of Pharmacy if recommended for this distinction by the pharmacy faculty.
3. The degree of master of science in pharmacy (M.S.) will be conferred upon any graduate of the four-year course who has completed one year of graduate work and presented a satisfactory thesis.
4. The degree of doctor of philosophy (Ph.D.) with major and thesis in the pharmaceutical field may be taken by meeting all requirements of the graduate school. The Graduate School section should be consulted for information concerning graduate degrees.

CURRICULA REQUIRED FOR GRADUATION

1. A three-year course which prepares its graduates for responsible positions as practical pharmacists. The first two years of all courses are the same. At the beginning of the third year the student must select the type of training he wishes for the next one or two years. Opportunity is given to specialize in advanced prescription and manufacturing pharmacy, business courses including economics, business law, accounting, business report writing, advertising, salesmanship, income tax problems, etc., food chemistry, advanced materia medica and medicinal plant cultivation, advanced pharmaceutical chemistry, toxicology and clinical diagnosis, bacteriology, and other pre-medical subjects.
2. A four-year scientific course which offers well-rounded scientific and liberal training. Graduates of this course are prepared for positions as (a) practical and manufacturing pharmacists; (b) teachers in colleges of pharmacy; (c) food and drug inspection chemists and bacteriologists in the United States Civil Service; (d) pharmaceutical journalism.
3. A four-year combined scientific and business course which includes the regular pharmacy work of the three-year course together with advanced training in pharmacy, and courses in the College of Business Administration and Schools of Journalism and Law which insure the student a thorough business training. Special attention will be given to courses in business law, advertising, accounting, salesmanship, insurance, money and banking and business organization. This course is designed to produce well trained men for either retail or wholesale pharmacy.
4. A four-year pharmacy course which includes all of the required work of the three-year course in pharmacy and such subjects as will give the graduate clear entrance to medical schools. A student completing this course and a course in medicine has the benefit of training in the two professions. The two degrees Ph.C. and B.S. are given at the completion of this course.
5. A five-year course offers opportunity to the four-year graduate to do graduate and research work in some line of scientific pharmacy and

graduate work in some branch of allied science. Graduates of this course are prepared for responsible positions in many different lines of work.

1. WITH DEGREE OF PHARMACEUTICAL CHEMIST. (Three-Year Course.)

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Pharmacy 1	5	Chemistry 9	5	Pharmacy 3	5
Chemistry 8	5	Botany 13	5	Chemistry 10	5
Physiology 6	5	Pharmacy 2	5	Botany 14	4
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Pharmacy 4	2
				Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Chemistry 37	5	Chemistry 38	5	Chemistry 39	5
Pharmacy 5	5	Pharmacy 6	5	Pharmacy 7	4
Pharmacy 9	3	Pharmacy 10	3	Pharmacy 11	3
Pharmacy 12	3	Pharmacy 13	3	Pharmacy 15	1
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	English 4	3
				Mil. Sci. or Phys. Ed..	1½

THIRD YEAR

Pharmacy 101	2	Pharmacy 102	2	Pharmacy 103	2
Pharmacy 117	2	Pharmacy 118	2	Pharmacy 119	2
Bacteriology 101	5	Approved Elective	11	Approved Elective	9
Approved Elective	6			Pol. Sci. 101.....	2

Total scholastic hours for graduation—185 plus 10 hours of military science or physical education. Electives in junior year may be arranged to meet requirements of any one of the four-year courses.

2. WITH DEGREE OF BACHELOR OF SCIENCE. (Four-Year Scientific Course.)

FIRST YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Pharmacy 1	5	Pharmacy 2	5	Pharmacy 3	5
Chemistry 8	5	Chemistry 9	5	Chemistry 10	5
Physiology 6	5	Botany 13	5	Botany 14	4
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	Pharmacy 4	2
				Mil. Sci. or Phys. Ed..	1½

SECOND YEAR

Chemistry 37	5	Chemistry 38	5	Chemistry 39	5
Pharmacy 5	5	Pharmacy 6	5	Pharmacy 7	4
Pharmacy 9	3	Pharmacy 10	3	Pharmacy 11	3
Pharmacy 12	3	Pharmacy 13	3	Pharmacy 15	1
Mil. Sci. or Phys. Ed..	1½	Mil. Sci. or Phys. Ed..	1½	English 4	3
				Mil. Sci. or Phys. Ed..	1½

THIRD YEAR

Pharmacy 101	2	Pharmacy 102	2	Pharmacy 103	2
Pharmacy 117	2	Pharmacy 118	2	Pharmacy 119	2
Pharmacy 125	1	Pharmacy 126	1	Pharmacy 127	1
Pharmacy 113	5	Pharmacy 114	5	Pharmacy 115	5
Bacteriology 101	5	Approved Elective	5	Pharmacy 112	3
				Approved Elective	2

FOURTH YEAR

Physics 1	5	Physics 2	5	Pol. Sci. 101.....	2
Pharmacy 195	5	Pharmacy 196	5	Pharmacy 197	5
Approved Elective	5	Approved Elective	5	Approved Elective	8

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.

3. WITH DEGREE OF BACHELOR OF SCIENCE. (Four-Year Combined Scientific and Business Course.)

FIRST YEAR

(Same as for Curriculum 2)

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Chemistry 37	5	Chemistry 38	5	Chemistry 39	5
Pharmacy 5	5	Pharmacy 6	5	Pharmacy 7	4
Pharmacy 9	3	Pharmacy 10	3	Pharmacy 11	3
Pharmacy 12	3	Pharmacy 13	3	Pharmacy 15	1
Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½	English 4	3
				Mil. Sci. or Phys. Ed.	1½

THIRD YEAR

Bus. Admin. 54 (Law)	3	Bus. Admin. 55 (Law)	3	Bus. Admin. 56 (Law)	3
Pharmacy 101	2	Pharmacy 102	2	Pharmacy 103	2
Pharmacy 117	2	Pharmacy 118	2	Pharmacy 119	2
Pharmacy 125	1	Pharmacy 126	1	Pharmacy 127	1
Pharmacy 113	5	Pharmacy 114	5	Pharmacy 115	5
Bacteriology 101	5	Psychology 1	5	Pharmacy 112	3

FOURTH YEAR

Bus. Adm. 62 (Acc'tg.)	5	Bus. Adm. 63 (Acc'tg.)	5	Bus. Adm. 3 (Econom.)	3
Bus. Admin. 146	5	Bus. Admin. 147	5	Approved Elective	5
Pharmacy 195	5	Pharmacy 196	5	Pharmacy 197	5
				Pol. Sci. 101	2

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.

4. WITH DEGREE OF BACHELOR OF SCIENCE. (Four-Year Pharmacy Course.)

FIRST YEAR

(Same as for Curriculum 2)

SECOND YEAR

<i>Autumn Quarter</i>	<i>Credits</i>	<i>Winter Quarter</i>	<i>Credits</i>	<i>Spring Quarter</i>	<i>Credits</i>
Chemistry 37	5	Chemistry 38	5	Chemistry 39	5
Pharmacy 5	5	Pharmacy 6	5	Pharmacy 7	4
Pharmacy 9	3	Pharmacy 10	3	Pharmacy 11	3
Pharmacy 12	3	Pharmacy 13	3	Pharmacy 15	1
Mil. Sci. or Phys. Ed.	1½	Mil. Sci. or Phys. Ed.	1½	Elective	3
				Mil. Sci. or Phys. Ed.	1½

THIRD YEAR

Physics 1	5	Physics 2	5	Physics 3	5
Bacteriology 101	5	English 1	5	English 2	5
Foreign Lang.	5	Foreign Lang.	5	Foreign Lang.	5

FOURTH YEAR

Pharmacy 101	2	Pharmacy 102	2	Pharmacy 103	2
Pharmacy 117	2	Pharmacy 118	2	Pharmacy 119	2
Pharmacy 125	1	Pharmacy 126	1	Pharmacy 127	1
Zoology 3	5	Zoology 4	5	Approved Elective	8
Approved Elective	5	Approved Elective	5	Pol. Sci. 101	2

Total scholastic hours for graduation—180 plus 10 hours in military science or physical education.

5. WITH DEGREE OF MASTER OF SCIENCE IN PHARMACY. (Five-Year Course.)

Graduates of the four-year course may continue work for the master's degree as follows:

Not more than 22 credits allowed outside of the department of pharmacy.

Not less than 23 credits shall be elected in the department of pharmacy. At least 12 credits of the major work must be a research problem and the preparation of a thesis. Examination and thesis must conform to the regulations of the Graduate School.

6. WITH DEGREE OF DOCTOR OF PHILOSOPHY.

The degree of doctor of philosophy (Ph.D.) with major and thesis in the pharmaceutical field may be taken by meeting all requirements of the graduate school. The bulletin of the graduate school should be consulted for information concerning graduate degrees.

COURSES OF STUDY

For description of courses offered by the College of Pharmacy, see Departments of Instruction section.

GRADUATE SCHOOL

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) *President of the University*
 Thomson, David, B.A. (Toronto) *Dean of Faculties*
 Padelford, Frederick Morgan, Ph.D. (Yale) *Assistant Dean of Faculties*

THE FACULTY, 1928-1929

PROFESSORS

Padelford, Frederick Morgan, Ph.D. (Yale) *Professor of English; Dean of the Graduate School*
 Benham, Allen Rogers, Ph.D. (Yale) *Professor of English*
 Benson, Henry Kreitzer, Ph.D. (Columbia) *Professor of Chemical Engineering*
 Blake, Ralph Mason, Ph.D. (Harvard) *Professor of Philosophy*
 Bolton, Frederick Elmer, Ph.D. (Clark) *Professor of Education; Dean Emeritus of the School of Education*
 Burd, Henry Alfred, Ph.D. (Illinois) *Professor of Business Administration; Director of Summer School*
 Carpenter, Allen Fuller, Ph.D. (Chicago) *Professor of Mathematics*
 Cobb, John Nathan *Professor of Fisheries; Dean of the College of Fisheries*
 Coon, Shirley Jay, Ph.D. (Chicago) *Professor of Business Administration*
 Cory, Herbert Ellsworth, Ph.D. (Harvard) *Professor of Liberal Arts*
 Cox, Edward Godfrey, Ph.D. (Cornell) *Professor of English*
 Cox, William Edward, A.M. (Texas) *Professor of Business Administration; Dean of the College of Business Administration*
 Daniels, Joseph, M.S. (Lehigh) *Professor of Mining Engineering and Metallurgy*
 Delin, William Maurice, Ph.D. (Illinois) *Professor of Organic Chemistry*
 Eastwood, Everett Owen, S.B. (Massachusetts Institute of Technology) *Professor of Mechanical Engineering*
 Frame, Hugh Campbell, Ph.D. (Harvard) *Professor of Business Administration*
 Frein, Pierre Joseph, Ph.D. (Johns Hopkins) *Professor of Romantic Languages*
 Frye, Theodore Christian, Ph.D. (Chicago) *Professor of Botany*
 George, William Henry, Ph.D. (Harvard) *Professor of Political Science*
 Glen, Irving Mackey, M.A. (Oregon) *Professor of Music; Dean of the College of Fine Arts*
 Gowen, Herbert Henry, D.D. (Whitman), F.R.G.S., F.R.S.A. *Professor of Oriental Studies*
 Griffith, Dudley David, Ph.D. (Chicago) *Professor of English*
 Guthrie, Edwin Ray, Ph.D. (Pennsylvania) *Professor of Psychology*
 Harris, Charles William, C.E. (Cornell) *Professor of Hydraulic Engineering*
 Johnson, Charles Willis, Ph.D. (Michigan) *Professor of Pharmaceutical Chemistry; Dean of the College of Pharmacy*
 Kincaid, Trevor, A.M. (Washington) *Professor of Zoology*
 Kirkland, Burt Persons, A.B. (Cornell) *Professor of Forestry*
 Kirsten, Friedrich Kurt, E.B. (Washington) *Professor of Electrical Engineering*
 Landes, Henry, A.M. (Harvard) *Professor of Geology and Mineralogy; Dean of the College of Science*
 Langenhan, Henry August, Ph.D. (Wisconsin) *Professor of Pharmacy*
 Leib, Karl Elias, J.D. (Stanford) *Professor of Business Administration*
 Loew, Edgar Allen, E.E. (Wisconsin) *Professor of Electrical Engineering*
 Lynn, Eldin Verne, Ph.D. (Wisconsin) *Professor of Pharmacology and Chemistry*
 McKenzie, R. D., Ph.D. (Chicago) *Professor of Sociology*
 McKenzie, Vernon, M.A. (Harvard) *Professor of Journalism; Dean of the School of Journalism*
 McMahon, Edward, A.M. (Wisconsin) *Professor of American History*
 Magnusson, Carl Edward, Ph.D. (Wisconsin) *Professor of Electrical Engineering; Dean of the College of Engineering*
 Martin, Charles Emanuel, Ph.D. (Columbia) *Professor of Political Science*
 Meany, Edmond Stephen, LL.D. (College of Puget Sound) *Professor of History*
 Moritz, Robert Edouard, Ph.N.D. (Strassburg) *Professor of Mathematics*
 Osborn, Frederick Arthur, Ph.D. (Michigan) *Professor of Physics*
 Parrington, Vernon Louis, A.M. (Emporia) *Professor of English*
 Preston, Howard Hall, Ph.D. (Iowa) *Professor of Business Administration*
 Ralitt, Effie Isabel, A.M. (Columbia) *Professor of Home Economics*
 Randolph, Edgar Dunnington, Ph.D. (Columbia) *Professor of Education*
 Richardson, Oliver Huntington, Ph.D. (Heidelberg) *Professor of European History*
 Rigg, George Burton, Ph.D. (Chicago) *Professor of Botany*
 Roberts, Milnor, A.B. (Stanford) *Professor of Mining Engineering and Metallurgy; Dean of the College of Mines*
 Savery, William, Ph.D. (Harvard) *Professor of Philosophy*
 Slacy, Thomas Kay, Ph.D. (Chicago) *Professor of Latin and Greek*
 Skinner, Macy Milmore, Ph.D. (Harvard) *Professor of Business Administration*
 Smith, George McPhail, Ph.D. (Frelburg) *Professor of Inorganic Chemistry*
 Smith, Stevenson, Ph.D. (Pennsylvania) *Professor of Psychology*
 Tartar, Herman Vance, Ph.D. (Chicago) *Professor of Chemistry*

¹Absent on leave.

Uhl, Willis Lemon, Ph.D. (Chicago).....	Professor of Education; Dean of the School of Education
Umpfrey, George Wallace, Ph.D. (Harvard).....	Professor of Romantic Languages
Vickner, Edwin John, Ph.D. (Minnesota).....	Professor of Scandinavian Languages
Weaver, Charles Edwin, Ph.D. (California).....	Professor of Paleontology
Weinzirl, John, Dr.P.H. (Harvard).....	Professor of Bacteriology
Wilson, Hewitt, Cer.Engr. (Ohio State University).....	Professor of Ceramics
Winger, Roy Martin, Ph.D. (Johns Hopkins).....	Professor of Mathematics
Winkenwerder, Hugo, M.F. (Yale).....	Professor of Forestry; Dean of the College of Forestry
Wood, Carl Paige, A.M. (Harvard).....	Professor of Music
Woolston, Howard, Ph.D. (Columbia).....	Professor of Sociology
Worcester, John Locke, M.D. (Birmingham School of Medicine, Alabama)....	Professor of Anatomy

ASSOCIATE PROFESSORS

¹ Anderson, Samuel Herbert, Ph.D. (Illinois).....	Associate Professor of Physics
Brakel, Henry Louis, Ph.D. (Cornell).....	Associate Professor of Engineering Physics
Denny, Grace Goldena, A.M. (Columbia).....	Associate Professor of Home Economics
Densmore, Harvey Bruce, B.A. (Oxford).....	Associate Professor of Greek
DeVries, Louis Peter, Ph.D. (Wisconsin).....	Associate Professor of Romantic Languages
Eckelman, Ernest Otto, Ph.D. (Heidelberg).....	Associate Professor of German
Esper, Erwin Allen, Ph.D. (Ohio State).....	Associate Professor of Psychology
Goggio, Charles, Ph.D. (Wisconsin).....	Associate Professor of Romantic Languages
Goodspeed, Jr., George Edward, B.S. (Min.E.), (Massachusetts Institute of Technology).....	Associate Professor of Geology
Gregory, Homer Ewart, M.A. (Chicago).....	Associate Professor of Business Administration
Gronald, Bror Leonard, M.S.F. (Washington).....	Associate Professor of Forestry
Gross, Mary Emma, M.A. (Columbia).....	Associate Professor and Director of Physical Education for Women
¹ Guberlet, John Earl, Ph.D. (Illinois).....	Associate Professor of Zoology
Hatson, John William, Ph.D. (Harvard).....	Associate Professor of Botany
Isaacs, Walter, B.S. (James Millikin).....	Associate Professor of Fine Arts
Jessup, John, M.A. (Iowa).....	Acting Associate Professor of Education
Lucas, Henry Stephen, Ph.D. (Michigan).....	Associate Professor of History
McMahon, Theresa Schmid, Ph.D. (Wisconsin).....	Associate Professor of Economics
Renner, Jr., George Thomas, Ph.D. (Columbia).....	Associate Professor of Geography
Smith, Eli Victor, Ph.D. (Northwestern).....	Associate Professor of Zoology
Stone, Edward Noble, A.M. (Olivet College).....	Associate Professor of Classical Languages
Thompson, Thomas Gordon, Ph.D. (Washington).....	Associate Professor of Chemistry
Williams, Curtis Talmadge, Ph.D. (Clark).....	Associate Professor of Education

ASSISTANT PROFESSORS

Alexander, James Lindsey, B.Sc.F. (Toronto).....	Assistant Professor of Forestry
Ballantine, John Perry, Ph.D. (Chicago).....	Assistant Professor of Mathematics
Corey, Clarence Raymond, A.M. (Columbia).....	Assistant Professor of Mining and Metallurgy
Crawford, Donald Russell, M.S. (Washington).....	Assistant Professor of Fisheries
Creer, Leland Hargrave, Ph.D. (California).....	Assistant Professor of History
Draper, Edgar Marlon, Ph.D. (Washington).....	Assistant Professor of Education
¹ Dresslar, Martha Estella, M.S. (Columbia).....	Assistant Professor of Home Economics
Dvorak, August, Ph.D. (Minnesota).....	Assistant Professor of Education
Goodrich, Forest Jackson, Ph.D. (Washington).....	Assistant Professor of Pharmacy and Materia Medica
Griffin, Eldon, A.B. (Harvard).....	Assistant Professor of Oriental Studies
Groth, John Henry, Ph.D. (Columbia).....	Assistant Professor of German
Hatch, Melville H., Ph.D. (Michigan).....	Assistant Professor of Zoology
Hoffstadt, Rachel Emilie, D.Sc. (Johns Hopkins).....	Assistant Professor of Bacteriology
Langford, Cooper Harold, Ph.D. (Harvard).....	Assistant Professor of Philosophy
McKay, George F., B.M. (Rochester).....	Assistant Professor of Music
Mander, Linden A., M.A. (Adelphi).....	Assistant Professor of Political Science
Miller, Robert Cunningham, Ph.D. (California).....	Assistant Professor of Zoology
Patterson, Ambrose.....	Assistant Professor of Fine Arts
Payne, Blanche, M.A. (Columbia).....	Assistant Professor of Home Economics
Powell, Sargent, Ph.D. (Illinois).....	Assistant Professor of Chemistry
Rhodes, Helen Nelson, A.B. (Washington).....	Assistant Professor of Design
Rowntree, Jessie Irene, M.S. (Chicago).....	Assistant Professor of Home Economics
Small, George William, Ph.D. (Johns Hopkins).....	Assistant Professor of English
Graduate Council: Dean Padelford, chairman; Deans Thomson, Magnusson; Professors Meany, Renner, Woolston, Randolph, Guthrie, Alexander, Tartar, Guberlet, Burd and Stone.	
Graduate School Publications Committee: Dean Padelford, chairman; Deans Landes, Cobb; Professors Rigg, Carpenter, C. W. Smith, Griffith, Jacobs, McKenzie, and Miss Westmoreland.	
Wentworth, Lois Janet, B.A.	Secretary to the Graduate School

¹ Absent on leave.

GENERAL STATEMENT

SPECIAL NOTE.—*For detailed information concerning special facilities for graduate work in the various departments, consult the bulletin issued by the Graduate School.*

The Aims of Graduate Study.—The principal aims of graduate study are the development of intellectual independence through cultivation of the scientific, critical and appreciative attitude of mind, and promotion of the spirit of research. The graduate student is therefore thrown more largely upon his own resources than the undergraduate, and must measure up to a more severe standard. The University is consistently increasing the emphasis on graduate work in order that it may be a strong center for advanced study.

Organization.—The Graduate School was formally organized in May, 1911. The graduate faculty consists of men offering courses primarily designed for graduate students.

Fees.—Graduate students pay a tuition fee of \$15 a quarter for the autumn, winter and spring quarters, if residents of the State of Washington or of Alaska, or \$50 a quarter for each of these quarters if non-residents. The regular fee for the summer quarter is \$25 for students at the University; \$25, including a \$5 laboratory fee, for students at the Biological Station.

Members of the staff on a full-time teaching schedule are relieved of all tuition. Teaching fellows, graduate scholars—formerly known as graduate assistants and graduate readers—and non-instructional employees of the University pay a tuition fee of one dollar per quarter for each credit hour on the election blank. Tuition and laboratory fees for all graduate students holding fellowships or scholarships from bequests or private sources are remitted.

Incidental fees, such as library and laboratory fees, are required from all graduate students who are not relieved of fees as stated above.

Graduate students are given the first week of each quarter in which to complete their registration without late fees.

LIBRARY FACILITIES

The University general library contains 190,414 volumes, and receives virtually all of the publications of learned societies. The law library contains approximately 53,563 volumes. The Seattle public library, containing around 412,000 volumes, is open to students without charge.

Collections of special significance are mentioned in the departmental announcements.

SPECIAL FACILITIES

Bailey and Babette Gatzert Foundation for Child Welfare.—On December 21, 1910, this foundation was established by a gift to the University of \$30,000. The purpose of the foundation is (1) to conduct a laboratory for the mental and physical examination of children to determine their individual defects and aptitudes and, in accordance with the results of the examination, to suggest the best means of education and treatment; (2) to assist in establishing the child welfare agencies and child study laboratories throughout the state, and (3) to carry on research in child psychology.

The Alice McDermott Memorial Fund.—The late Mrs. Josephine P. McDermott made provision in her will for the establishment of the Alice

McDermott Memorial Fund at the University of Washington. The amount of this bequest is \$100,000 available for one or both of the following purposes:

1. Research work in or in connection with the University of Washington tending to promote the prevention of tuberculosis.
2. The purchase of radium for research work in connection with disease or for actual treatment thereof.

Engineering Experiment Station.—The purpose of the station is to aid in the industrial development of the state and nation by scientific research and by furnishing information for the solution of engineering problems.

The scope of the work is two-fold.

1. To investigate and to publish information concerning engineering problems of a more or less general nature that would be helpful in municipal, rural, and industrial affairs.
2. To undertake extended research and to publish reports on engineering and scientific problems.

Every effort will be made to cooperate effectively with professional engineers and the industrial organizations in the state. Investigations of primary interest to the individual or corporation proposing them, as well as those of general interest, will be undertaken through the establishment of fellowships.

For administrative purposes, the work of the station is organized into eight divisions: (1) Forest products, (2) mining, metallurgy and ceramics, (3) aeronautical engineering, (4) chemical engineering and industrial chemistry, (5) civil engineering, (6) electrical engineering, (7) mechanical engineering, (8) physics standards and tests.

Puget Sound Biological Station.—The Puget Sound Biological Station, open during the summer quarter for classes and to research workers by special arrangement at other times, is located at Friday Harbor in San Juan County. This region is unsurpassed in natural advantages for a marine biological laboratory, perhaps the most fortunate in the country. The very varied conditions result in the presence of a very diverse flora and fauna. The protected shores make it easy and comparatively safe to get about.

The sea life embraces a great abundance of the following animal forms: hydroids, echinoderms, shore crabs, worms, bivalves, gastropods, nudibranchs, star fish, sea urchins, anemones, sea-cucumbers and barnacles, medusae and jelly fish, and a hundred species of other fish. Water fowl nest on rocky cliffs.

All of the four groups of algae are abundantly represented, between 75 and 100 species being found, exclusive of microscopic forms. Among the brown algae, the kelps predominate, Nereocystis being the most abundant, though the other species of kelp are common. Fucus is the most prevalent of the rock weeds. Among the red algae are Polysiphonia Gigartina, Porphyra and Ampiroa; among the green algae, Ulva, Enteromorpha and Codium; and among the blue-green algae, Nostoc and Dermocarpa. Diatoms of many forms abound.

With this rich fauna and flora, some of which are available in shore work and others brought up by the dredge, there are large opportunities for work in taxonomy, morphology, cytology, ecology and physiology. Since the region is still somewhat new scientifically, there is much important work to be done in taxonomy and local distribution. As there are several forms of which the life history is not completely known, the morphological work is attractive. The problems in physiology, both in the field and in the laboratory, are numerous. The opportunities for work in ecology are excellent and many of them will have important economic bearing on fisheries problems. Thus among the important lines of investigation may be mentioned study on the diatoms, bacteria, and various fish parasites.

The University owns 484 acres with about two miles of shore line, and the state has made the whole county a marine preserve. Three new buildings have been erected within the past three years; two of them are permanent fireproof laboratory buildings. The station publishes a series, now in its third volume, known as the Publications of the Puget Sound Biological Station. There is a station library of about 1,000 volumes.

LABORATORIES

The University has well-equipped laboratories for advanced work in anatomy, botany, ceramics, chemistry, civil, chemical, electrical, mechanical and mining engineering, fisheries, forestry, geology, metallurgy, pharmacy, physics, psychology and zoology.

GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

Loretta Denny Fellowships.—Three fellowships, of \$500 each, open to graduate students in any department of the University. Awarded by the faculty on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Application for these fellowships should be made on blanks supplied by the dean of the Graduate School, and must be in his hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

Arthur A. Denny Fellowships.—Six fellowships of \$500 each, open to graduate students in the departments of civil engineering, education, English, history, mining engineering, and pharmacy, respectively. Awarded by the departments concerned on the basis of scholastic excellence and general merit, but only to those who need financial assistance. Applicants must be residents of the state of Washington. Applications for these fellowships should be made to the heads of the departments concerned on blanks supplied by the dean of the Graduate School, and must be in their hands on or before March 15 preceding the academic year for which the fellowships are to be granted.

National Research Fellowships.—Fellowships in physics and chemistry, offered by the National Research Council, are open to promising research students, who have already taken the doctor's degree or have equivalent qualifications. A successful candidate can pursue his research at any university or research institute chosen by him which is acceptable to the appointing board. The salary will ordinarily be \$1800 for the first year. Fellows are eligible for successive reappointments ordinarily with increase in salary. For details address the dean of the Graduate School or the heads of the departments.

University Honorary Fellowships.—Three honorary fellowships have been established by the University. These, like the Loretta Denny Fellowships, are open to students in any department of the University. They carry no stipend, and are designed to furnish recognition of exceptional scholastic excellence in the case of graduate students who are not eligible for the Loretta Denny or the Arthur A. Denny fellowships, either because they do not need financial assistance or because they are not giving their entire time to their work in the University.

Research Fellowships.—The College of Mines offers five fellowships for research in coal and clay in cooperative work with U.S. Bureau of Mines. The fellowships are open to graduates of universities and technical colleges who are properly qualified to undertake research investigations. The value of each fellowship is \$720 to the holder, for the twelve months beginning July 1. Fellowship holders pay tuition and laboratory fees, but are reimbursed for the amounts so expended; they register as graduate students and become candidates for the degree of master of science in the proper subject, unless an equivalent degree has previously been earned.

Each applicant should send a copy of his collegiate record from the registrar of the college where he has graduated, or will graduate in June. He should also send a photograph and a detailed statement of his professional experience, if any, and give the names and addresses of at least three persons who are familiar with his character, training and ability. Applications should be submitted if possible by April 20 in order to allow ample time for consideration, and should be addressed to the Dean, College of Mines, University of Washington, Seattle, Washington.

Du Pont Fellowship.—Through its chemical department, Du Pont de Nemours & Co. offer an annual fellowship of \$750 in chemistry, known as the "Du Pont Fellowship", open to a senior student or graduate student in chemistry or chemical engineering.

The Bon Marche Industrial Fellowship.—The Bon Marche of Seattle offers an annual fellowship of \$600 to a graduate student in home economics for research work in textiles. The recipient of this fellowship is required to give one-fourth of her time for eleven months to the testing of textiles for the Bon Marche.

The Effie I. Raitt Fellowship.—The Effie I. Raitt fellowship of \$600 is offered annually to a graduate student in home economics for research work in nutrition.

The Skagit Valley Goldenseal Farm Fellowship in Pharmacy.—A research fellowship of \$500 is offered annually to a graduate student in drug plant cultivation.

The Nakata Fellowship in Oriental Studies.—The Nakata fellowship of \$300 is offered annually to a graduate student in Oriental Studies.

The Mars Fellowship.—A research fellowship in astronomy, given by the late Dr. Percival Lowell of the Lowell Observatory, Flagstaff, Arizona, carrying a stipend of \$600, may be awarded annually.

Columbia University Fellowship.—Columbia University offers each year a fellowship of \$250, open to students in mining, engineering and chemistry.

University Teaching Fellowships.—The University each year provides a number of teaching fellowships in various departments. The graduate student receiving such a fellowship divides his time equally between his studies and assistance in the teaching work of the departments in which he is enrolled. These fellowships range from \$540 to \$720.

Graduate Scholarships.—A number of graduate scholarships are open to students who perform service as laboratory assistants, assistants in charge of quiz sections, or readers. The remuneration is proportioned to the service, and ranges from \$180 to \$360.

ADMISSION

Three classes of students are recognized in the Graduate School:

1. Candidates for the master's degree.
2. Candidates for the doctor's degree.
3. Students not candidates for a degree.

Admission.—A graduate of the University or of any other institution of good standing will be admitted to the Graduate School. Before being recognized as a candidate for a degree, however, a student must be approved by a committee appointed by the dean of the Graduate School, which shall also constitute the advisory committee to oversee the student's subse-

quent work. Unless the committee is already sufficiently acquainted with the candidate's capacity and attainments, there shall be a conference of the committee and the candidate, the purpose of which is two-fold:

(a) To determine whether the student has the quality of mind and the attitude toward advanced work which would justify his going on for an advanced degree.

(b) To satisfy the major and minor departments and the graduate council that the student has the necessary foundation in his proposed major and minor subjects. If he lacks this foundation, he will be required to establish it through undergraduate courses or supervised reading.

If the student is from a college or university which falls below a satisfactory standard in curriculum, efficiency of instruction, equipment or requirements for graduation, he may be required to take other undergraduate courses in addition to those required as a foundation in the major and minor subjects.

As soon after matriculation as feasible, a candidate for an advanced degree must file with the dean of the Graduate School an outline of his proposed work, on a blank provided for that purpose. This blank is submitted to the advisory committee for acceptance or modification. When it has received approval of the graduate council and the student has been notified, he will be regarded as a candidate for a degree.

Students on the Staff.—Assistants, associates, or others in the employ of the University are normally permitted to carry a maximum of six hours of graduate work if full-time employees, and a maximum of eleven hours if half-time employees.

Graduate Study in the Summer.—As the summer offers leisure for advanced study to a large number of teachers, the University lays special emphasis on graduate work during the summer quarter. Graduates of colleges or universities in attendance then are urged to enroll for the strictly graduate courses, as these courses give an opportunity to work with a select group of mature students toward the acquisition of an advanced degree.

Graduate students will enroll with the dean of the Graduate School.

Attendance during three summer quarters will satisfy the residence requirement for the master's degree. A fair amount of credit toward the doctor's degree may also be earned in the summer quarter.

Graduate Credit for Extension Courses.—(1) Students who have received bachelor's degrees elsewhere may earn graduate credits through the Extension Service under the following limitations:

a. Nine credits (one-fifth of the normal requirement for the master's degree) may be earned in approved Home Study or Extension class courses of graduate standing.

b. Such students must, however, meet the residence requirement of three full quarters.

(2) Students who have earned bachelor's degrees from the University of Washington may earn graduate credits through the Extension Service under the following limitations:

a. Nine credits (one-fifth of the normal requirement for the master's degree) may be earned in approved Home Study or Extension class courses of graduate standing.

b. Such students must meet the residence requirement of two and a half quarters.

DEGREES

THE DOCTOR'S DEGREE

Doctor of Philosophy.—Graduate students will be received as candidates for the degree of doctor of philosophy in such departments as are adequately equipped to furnish the requisite training. Each department intro-

duces its program of courses with a specific statement of the graduate training that it is prepared to direct, and of the distinctive opportunities that it offers for graduate work. This degree is conferred only on those who have attained proficiency in a chosen field and who have demonstrated their mastery by preparing a thesis which is a positive contribution to knowledge.

The requirements for the degree of doctor of philosophy are as follows:

1. At least three years of graduate work, of which not less than one year must be spent in residence at the University of Washington. If a candidate is otherwise engaged in any regular employment, a correspondingly longer period of study will be required. Before being recognized as a candidate for the degree, a student must be approved by a committee as provided above.

2. Completion of courses of study in a major and one or two minor subjects. This requirement as to the number of minors, however, may in exceptional cases be modified by action of the Graduate Council, making it possible for the candidate to offer more than two minors, or no minor at all. What subjects may be offered as minors shall be determined by the major department with the approval of the Graduate Council. The passing grades for advanced degrees are *A* and *B*, *S* being used to indicate satisfactory work in a hyphenated course so far as the course has progressed, such work not to be counted toward a major or minor until the final examination.

These courses of study cover at least two years of work. The work of the first year is virtually identical with that for the master's degree, and normally the candidate will wish to take this degree incidentally; the work of the second year is of still more advanced character. Not earlier than the end of the second year and at least a year before the time when the candidate expects to take the degree, the major and minor departments supplemented by a representative from the graduate council, shall submit the candidate to a careful oral and written examination, to determine whether he has the native equipment and the scholarship to warrant him in continuing.

3. The preparation of a thesis, as stated above, embodying the results of independent research. The thesis may properly be initiated in the second year, and should occupy the greater part of the third year. If the thesis is of such a character, or falls in such a department, that it requires library or laboratory facilities beyond the resources of the University, the student will be required to carry on his investigation at some other university, at some large library, or in some special laboratory. This thesis must be approved by a committee appointed by the major department of which the instructor in charge of the thesis shall be a member, and also by a special committee from the graduate council.

4. Examinations as follows:

The Preliminary Examination.—An oral, or oral and written examination, covering the major and minor subjects. In so far as the examination is oral, it shall be before a committee appointed by the dean of not less than three representatives of the major department, not less than one representative of each of the minor departments, and a representative of the graduate council. The preliminary examination will normally be taken not less than two quarters before the final examination.

The Final Examination.—An oral, or oral and written examination, before the same committee as above. If the preliminary examination was in all respects satisfactory, the final examination shall be on the field of the thesis and such courses as were taken subsequent to the preliminary examination. If the preliminary examination did not meet with the clear approval of the committee, the candidate's entire program, or such parts thereof as may have been designated by the committee, shall be subject to review.

If there is division of opinion in the committee in charge of either examination, the case shall be decided by the graduate council, with right of appeal to the graduate faculty.

5. Evidence of a reading knowledge of scientific French and German and of such other languages as individual departments may require. Such evidence must be filed with the dean and approved by him before the preliminary examination. Only in rare cases shall the requirement of a reading knowledge of scientific French and German be waived, and then only when, in the judgment of the council, substitutions for either or both of these languages will be to the advantage of the student's training.

6. Two copies of the thesis in typewritten form (or library hand) shall be deposited with the librarian for permanent preservation in the University archives, at least two weeks before the date on which the candidate expects to take the degree. One copy shall be bound at the expense of the candidate.

The thesis, or such parts thereof, or such a digest as may be designated by the council, shall be printed. The candidate shall contribute \$100 to a fund for printing of theses, whether his thesis appears in the University series or elsewhere. From this fund the library is provided with 400 copies and the candidate with 50 copies.

7. A statement certifying that all courses and examinations have been passed and that the thesis has been accepted and properly filed in the library, shall be presented to the dean at least one week before graduation. This statement must bear the signatures of all major and minor instructors in charge of the student's work, of the committee appointed by the major department to pass on the thesis, and of the librarian or his appointed representative.

THE MASTER'S DEGREE

Master of Arts.—The degree of master of arts implies advanced liberal training in some humanistic field, gained through intensive study of one of the liberal arts supplemented by study in one or two supporting subjects. This detailed study culminates in a thesis which, if not an actual contribution to knowledge, is concerned with the organization and interpretation of the materials of learning. Creative work of a high quality may be offered in lieu of a thesis.

Master of Science.—The degree of master of science implies training similar to the above in some province of the physical or biological sciences. The thesis for this degree, however, must be an actual contribution to knowledge.

The requirements for these degrees are as follows:

1. At least three full quarters or their equivalent spent in undivided pursuit of advanced study. If a candidate has done graduate work elsewhere, his program may be slightly less exacting, but this work must pass review in the examination, and shall not reduce the residence requirement at this University.

2. Completion of a course of study in a major and one or two minor subjects and of a thesis which lies in the major field. The work in the major and minor subjects shall total not less than 36 course hours, of which 24 are normally in the major. The thesis normally counts for 9 hours in addition to the course work and lies in the major field. The passing grades for advanced degrees are *A* and *B*, *S* being used to indicate satisfactory work in a hyphenated course so far as the course has progressed, such work not to be counted toward a major or a minor until the final examination.

The requirements of a minor or minors may be waived, but only on recommendation of the major department and with the consent of the graduate council.

A reading knowledge of a foreign language is required for the degree of master of arts.

No work in the major subject may be counted toward the master's degree until the candidate has complied with the departmental requirements as to previous work in that subject.

Elementary or lower division courses may not count toward the minor requirement, and teachers' courses may not count toward either the major or minor requirements.

The preparation of a thesis, as defined above.

4. An oral, or written, or an oral and written examination, given by a committee appointed by the head of the major department, including so far as feasible, all the instructors with whom the student has worked. If division of opinion exists among the examiners, the case shall be decided by the graduate council, with right of appeal to the graduate faculty.

5. The candidate's thesis shall be in charge of the instructor in whose field the subject falls, and it must be approved by a committee of the major department, of which the instructor in charge shall be a member. If the committee is divided in opinion, the case shall be decided by the graduate council, with right of appeal to the graduate faculty. At least two weeks before the date on which the candidate expects to take the degree, two copies of the thesis in typewritten form or printed form (or library hand, in case the thesis is of such a character that it cannot be typewritten) shall be deposited with the librarian for permanent preservation in the University archives. The thesis must meet the approval of the librarian as to form, and the cost of binding for one copy must be deposited with the thesis.

6. A statement certifying that all courses and examinations have been passed, and that the thesis has been accepted and properly filed in the library, shall be presented to the dean at least one week before graduation. This statement must bear the signatures of all instructors in charge of the student's work, of the instructors in charge of the thesis, and of the librarian or his appointed representative.

Master of Arts and Master of Science in Technical Subjects.—The degree of master of arts and master of science is given in technical subjects as follows:

- Master of Science in Chemical Engineering.
- Master of Science in Civil Engineering.
- Master of Science in Electrical Engineering.
- Master of Science in Mechanical Engineering.
- Master of Science in Ceramic Engineering.
- Master of Science in Coal Mining Engineering.
- Master of Science in Geology and Mining.
- Master of Science in Metallurgy.
- Master of Science in Mining Engineering.
- Master of Science in Forestry.
- Master of Science in Fisheries.
- Master of Science in Pharmacy.
- Master of Science in Home Economics.
- Master of Arts in Music.
- Master of Arts in Business Administration.

The requirements for these degrees are essentially the same as those for the degrees of master of arts and master of science.

Master's Degree in Technical Subjects.—The master's degree is given in technical subjects as follows:

- Master of Forestry.
- Master of Business Administration.
- Master of Laws.
- Master of Fine Arts.

The requirements for these degrees are essentially the same as those for the degrees of master of arts and master of science, with the exception that all the work may be in the major.

COURSES OF STUDY

For description of courses see Departments of Instruction section.

EXPLANATION

This section contains a list of all courses of study offered in the University. The departments are arranged in alphabetical order.

The University reserves the right to withdraw temporarily any course which has not an adequate enrollment at the end of the sixth day of any quarter. For changes in registration, due to withdrawal of a course, no fee will be charged.

The four-quarter plan has been adopted to enable the University to render larger service. It is more flexible than the semester plan and adds twelve weeks' instruction to the regular year. It is impossible, however, to provide that every course be given every quarter.

Courses bearing numbers from 1 to 99 inclusive are normally offered to freshmen and sophomores; those from 100 to 199 to juniors and seniors, and those from 200 upward to graduate students.

Two or three numbers connected by hyphens indicate a course which ordinarily carries credit only when pursued for the full time; the instructor's permission must be obtained for credit for only a single quarter of such a course. No credit in a beginning foreign language is given for less than two quarters' work.

The credit indicated in connection with each course is the "quarter credit," based on the class period per week.

The descriptions of courses in each department include: (1) the number of the course as used in university records; (2) the title of the course; (3) a brief statement of its subject matter and method; (4) number of quarter credits given; (5) quarter in which it is given (autumn, winter, spring, summer); (6) name of instructor.

Courses preceded by * are not given in 1928-1929.

Courses preceded by ** are given if a sufficient number of students elect them.

DEPARTMENTS OF INSTRUCTION

AERONAUTICAL ENGINEERING

Aeronautical Laboratory

Professor Kirsten

101. *Aerodynamics*.—Study of air-flow phenomena and of the aerodynamical characteristics of air foils and air-foil combinations. Qualitative and quantitative wind tunnel testing in two-foot and four-foot tunnel. Prerequisite, Junior standing. Three credits; autumn, winter, spring. Kirsten.

102. *Aerodynamics*.—Selection of air-foils for prescribed airplane performance; performance calculations; study of methods of structural design and analysis; wind tunnel testing of airplane models. Prerequisite, A.E. 101. Three credits; winter, spring. Kirsten.

111. *Aerial Propulsion*.—Study of several methods of screw propeller design; design of a standard screw propeller and performance calculations. Prerequisite, A.E. 101. Three credits; autumn, winter. Kirsten.

112. *Aerial Propulsion*.—Study of different types of propellers; coordination of propeller with vessel; study of standard propeller test methods; propeller test in wind tunnel. Prerequisite, A.E. 111. Three credits; spring. Kirsten.

121. *Aeronautical Design*.—Design of an airplane for a given prescribed duty, coordination of its parts in assembly drawing, performance calculations. Prerequisite, A.E. 101. Three credits; autumn. Miller.

122. *Aeronautical Design*.—Choice of type of airplane or any type of flying machine of the heavier-than-air class. Stress analysis of structural parts, performance calculations, making and testing of model in wind tunnel. Prerequisite, A.E. 121. Three credits; spring. Kirsten, Miller.

**141. *Airships*.—Study of lighter-than-air machines, helicopters, ornothopters and auto-gyros; airship gases; special problems of control and stability of aircraft. Prerequisite, A.E. 101. Three credits. Kirsten.

**161. *Aerial Transportation*.—Design and layout of landing fields and aircraft terminals; study of economics involved in operation and maintenance of aerial transportation lines. Prerequisite, A.E. 111, 121, 141. Three credits. Miller.

Courses 121 and 161 will be supplemented with lectures by Mr. C. E. Egtvedt, Mr. C. N. Monteith, Mr. R. J. Minshall and other engineers of the Boeing Airplane Company of Seattle.

ANATOMY

Anatomy Building

Professor Worcester

GROSS ANATOMY

25. *Anatomy*.—For hospital students. Three credits; autumn, winter, spring. Worcester.

101, 102, 103. *General Human Anatomy*.—Thorough study of the human body. Osteological collections are available. Especially for students taking

**Will be offered if a sufficient number of students elect the course.

the pre-medical, nurses', or physical education courses; open to others. Prerequisite, Zool. 3 and 7 or their equivalent. Lab. fee, \$3. Three or six credits a quarter; autumn, winter, spring. Worcester.

104. *Topographic Anatomy*.—Cross and sagittal sections for correlation. Prerequisites, Anat. 101, 102, 103. Lab. fee, \$3. Four credits; autumn, winter, spring. Worcester.

108. *Special Dissections*.—Designed for physicians or students who have completed the above courses in gross anatomy. Lab. fee, \$3. Credits to be arranged. Autumn, winter, spring. Worcester.

110, 111, 112. *Special Demonstrations*.—Designed for physical education and bacteriology majors. Lab. fee, \$1. Credits and hours to be arranged; autumn, winter, spring. Worcester.

MICROSCOPIC ANATOMY

105, 106. *Histology and Embryology*.—Microscopic anatomy of developing and adult mammals studied in both fresh and fixed conditions. Especially for students in pre-medical and nurses' courses but open to others. Prerequisite, Zool. 1 or 3 or their equivalent. Lab. fee, \$3. Six credits a quarter; autumn, winter. Worcester.

107. *Neurology*.—Dissection of the human brain and cord and special organs of sense; comparative developmental history of the central nervous system; a microscopic study of the nuclei and fibre tracts. Prerequisites, Zool. 1 or 3 or their equivalent. Especially for pre-med students but open to others. Lab. fee, \$3. Six credits a quarter; spring. Worcester.

200. *Research*.—Graduate and research work in anatomy for those qualified. Credits and time arranged. Autumn, winter, spring. Worcester.

ANTHROPOLOGY

Education Hall

Associate Jacobs

51. *General Introduction to Anthropology*.—A general survey of human history; origin and development of arts and industries; race questions. Five credits; autumn, winter. Staff.

52. *Primitive Society*.—Five credits; spring. Staff.

101. *Cultures of the American Indians*.—Factors that determine the growth of civilizations, as illustrated by the North American Indians. Prerequisite, Anthro. 51 or 52 or instructor's permission. Five credits; spring. Jacobs.

110. *Pre-History*.—Five credits; spring. Staff.

*111. *Northwest Pacific Coast of North America*.

141. *Primitive Art and Literature*.—Five credits; spring.

*143. *Origins of Art*.

*163. *Racial History*.

*185. *Primitive Social and Political Institutions*.

*Not offered in 1928-1929.

190, 191, 192. *Research*.—Instructor's permission necessary. Credits and hours to be arranged; autumn, winter, spring. Staff.

COURSES FOR GRADUATES ONLY

204, 205. *Methods of Anthropology*.—Analysis of culture; historical and psychological methods; theories of culture growth. Three credits a quarter; winter, spring. Staff.

ARCHITECTURE

Architecture Building

Professor Thomas; Associate Professor May; Assistant Professors Herrman, Gowen; Instructor Pearce

(Member of the Collegiate Schools of Architecture)

All students contemplating the study of architecture should confer with the head of the department as to their special qualifications and reasons for entering the professional study of architecture. A student should have credits in plane geometry, algebra through quadratics, trigonometry, physics, and at least two years of foreign language. Forty hours of foreign language are required for graduation, twenty hours of which are provided in the curriculum. The romance languages, particularly French, should be chosen, though freedom of choice is allowed.

1-2. *Architectural Appreciation*.—Illustrated lectures giving an historic survey of domestic architecture. General appreciation of architecture. Exercises in drawing and the simpler elements of buildings. Two credits a quarter; autumn, winter. Herrman.

3. *Architectural Appreciation*.—General appreciation of important periods of architectural history, studied, wherever possible, in terms of present day conditions. Two credits; spring. Herrman.

4-5-6. *Elements of Architectural Design*.—Problems in architectural drawing, such as walls, doors, windows, colonades, and vaults. One hour lecture a week on the elements of architecture and library research. To be taken in connection with Arch. 7-8-9. Four credits a quarter; autumn, winter, spring. Herrman.

7-8-9. *Graphical Representation*.—Elementary principles of orthographic projections, geometrical determination of shades and shadows on architectural forms; and principles and methods of perspective as applied to architectural drawing. To be taken in connection with Arch. 4-5-6. One credit a quarter; autumn, winter, spring. Jacobsen.

40, 41, 42. *Freehand Drawing, Water Color*.—Still life studies and outdoor sketching in water color. Lab. fee, \$1. Prerequisite, P.S.D. 34. Two credits each quarter; autumn, winter, spring. Pratt.

47-48. *Elementary Theory of Construction*.—Analysis of fundamental structural problems by application of the laws of equilibrium. Three credits a quarter; autumn, winter. May.

51-52-53. *History of Architecture*.—Technical study of the architecture of Egypt, Greece, Rome, Byzantium, the Romanesque and Gothic. Principles of historic design in terms of structural element. Illustrated lectures and library research. Prerequisite, Arch. 3. Two credits a quarter; autumn, winter, spring. Thomas.

54, 55, 56. *Architectural Design, Grade I*.—Problems in design under individual criticism; order problems and simple problems of building. Work

is done under the Society of Beaux Arts, New York, system and work is sent to New York for judgment in competition with work from the leading architectural schools of the country. B.A.I.D. Class B. Analytique. Lab. fee, \$7.50 for the year. Prerequisite, Arch 6. Five credits any quarter; autumn, winter, spring. Gowen, Jacobsen.

101-102-103. *History of Architecture*.—The renaissance; a comparative study of the periods in European architecture. Illustrated lectures and library research. Prerequisite, Arch. 53. Two credits a quarter; autumn, winter, spring. Herrman.

104, 105, 106, 107. *Architectural Design, Grade II*.—Advanced problems in design done under individual criticism. (B.A.I.D. Class B Projet) Lab. fee, \$7.50 for the year. Prerequisite, Arch. Design, Grade I. Five credits any quarter; autumn, winter, spring. Thomas, Herrman.

112, 113. *Freehand Drawing*.—Studies of casts of the human figure. Charcoal, flat wash, and pencil. Lab. fee, \$1. Prerequisite, P.S.D. 34. Two credits a quarter; autumn, winter. Pratt.

115. *Modelling*.—Modelling of architectural subjects from program; work to be done outside of class hours or as arranged. Definite number of points required for the course. Senior standing; two credits; winter. Jacobsen.

117. *Building Construction*.—General principles of structural design; girders, columns and roof trusses in timber and steel as applied by the architect. Prerequisite, C.E. 130. Three credits; winter. May.

118. *Building Construction*.—Principles of concrete design; slab, joists, tile and joist columns, and the like, as applied by the architect. Prerequisite, Arch. 117. Three credits; spring. May.

120-121-122. *Working Drawings*.—Lectures on simple building construction. Drafting room practice in working drawings. Interpretation of rough sketches and design studies in terms of construction. Full size and large scale studies of details. Inspection trips. Two credits a quarter; autumn, winter, spring. Thomas.

125-126. *Pencil Sketching*.—Pencil sketches of architectural subjects—the first quarter from photograph, the second from actual subject. Criticism once a week on work done. Sketching to be done outside of class hours. Definite number of sketch points required for the course. One credit a quarter; winter, spring. Jacobsen.

140. *History of Architectural Ornament*.—A comparative study of the historic development of architectural ornament. Illustrated lectures and library research. Prerequisite, Arch. 3. Two credits; spring. Gowen.

151. *History of Architecture*.—Modern architecture in America and Europe from the middle of the eighteenth century to the present time. Illustrated lectures, library research, class discussions and papers. Prerequisite, Arch. 103. Two credits; spring. Gowen.

152. *Theory of Architecture*.—Theory of architectural design, relation of composition and scale, planning. Class discussions and lectures. Prerequisite, Arch. Design, Grade II. Two credits; autumn. Gowen.

153. *Architectural Materials*.—Properties of materials used in architectural construction and practice; steel, concrete, wood, plaster, paint, varnish, and the like. Senior standing. Two credits; winter. Gowen.

154, 155, 156, 157. *Architectural Design, Grade III*.—Advanced design under individual criticism. (B.A.I.D. Class A Projet) Lab. fee, \$7.50 for the year. Prerequisite, Arch. Design, Grade II. Five credits a quarter; autumn, winter, spring. Thomas, Gowen.

158. *Thesis and Seminar*.—Architectural design problem with structural details and reports covering a complete architectural project. Individual criticism subject to program and requirements as determined by the faculty. One seminar class hour per week for discussions of projects and of topics of current interest to architects. Lab. fee, \$5. Prerequisite, Arch. Design, Grade III. Eight credits; autumn, winter, spring. Thomas, Gowen, Herrman.

159. *Specifications and Office Practice*.—Specifications and all contract forms used by the architect; modern business methods, ethics and office organization. Two credits; spring. Thomas.

160, 161, 162. *Architectural Problems*.—Class A, B.A.I.D. Problems and advanced local problems in design. Prerequisite, Arch. 158. Three to seven credits; any quarter. (The amount of credits will be proportionate to the duration in weeks of the problems taken, with a maximum of seven credits and a minimum of three.) Fee, \$7.50 for the academic year or any quarter of the academic year unless student has previously, the same academic year, registered for Arch. 158, in which case, the amount of that fee will be deducted. Thomas, Gowen.

170. *Senior Mechanics*.—Advanced theory of construction. Structural design of buildings and solution of structural problems in concrete or steel of the thesis required for graduation. Two credits; winter. May.

NOTE.—Fee for Design Grade I-II-III is \$7.50 for the academic year unless the student has previously registered for preceding grade the same academic year.

ASTRONOMY

The Observatory

Assistant Professor Zanstra

The work in astronomy is planned for (a) students who desire some knowledge of astronomy as part of a liberal education; (b) navigators and engineers who need some knowledge of the science as part of their technical equipment.

1. *General Astronomy*.—A descriptive, non-mathematical course, designed to give the student some idea of the solar system, the stars, and the place of the earth in the universe. Five credits; autumn, winter. Zanstra.

101. *Astrophysics and Stellar Astronomy*.—Discussion of the physical properties of the sun and the stars; their spectra, luminosities, temperatures, masses, and the methods for obtaining them; motions and distances of stars, star clusters and spiral nebulae; binary stars, variable stars, novae, galactic nebulae, and other subjects. Prerequisites, Ast. 1, Phys. 1, 2, 3, or 97, 98, 99, or special permission. Four credits; winter. Zanstra.

BACTERIOLOGY AND PATHOLOGY

Science Hall

Professor Weinzirl, Assistant Professor Hoffstadt, Lecturer G. A. Magnusson, Associate Gerdeman and Assistants.

COOPERATING LABORATORIES:

- A. U. Simpson, M.D., Director State Board of Health.*
- P. C. West, M.D., Director Seattle Department of Health.*
- E. D. Clark, Ph.D., Director National Cannery Association.*
- W. E. Gibb, B.S., Director Virginia Mason Hospital.*
- D. H. Nickson, M.D., Director Swedish Hospital.*
- G. A. Magnusson, M.D., Director Physicians' Clinical.*

The work in bacteriology provides training along the following lines:
(a) As part of a liberal education; (b) as applied to medicine, nursing,

pharmacy, fisheries, home economics, sanitary engineering, chemistry; (c) for the preparation of technicians and bacteriologists; (d) for advanced degrees.

101. *General Bacteriology*.—Technique in growing and examining bacteria, identification of species, common disease bacteria. Prerequisite, Chem. 2. Prerequisite for advanced degrees. Lab. fee, \$4. Five credits; autumn, winter, spring, summer. Weinzirl and Staff.

102. *Sanitary Bacteriology*.—Water supplies and sewage disposal; meat, milk and other foods; certain industrial applications. Prerequisite, Bact. 101. Lab. fee, \$4. Five credits; winter. Weinzirl and Hoffstadt.

103. *Public Hygiene*.—Conservation of health; prevention of diseases; school hygiene; industrial hygiene, etc. Five credits; lectures only; autumn, spring. Lab. fee, \$1. Weinzirl.

104. *Serology*.—Types of immunity; immunization of animals and man; study of immune products. Prerequisite, Bact. 101. Lab. fee, \$5. Five credits; spring. Hoffstadt.

105. *Infectious Diseases*.—Detailed study of the pathogenic bacteria, and methods of diagnosis of infectious diseases. Prerequisite, Bact. 101. Lab. fee, \$5. Five credits; autumn. Hoffstadt.

106. *Clinical Diagnosis*.—Examination of blood, urine, gastric and intestinal contents, parasites, etc. Prerequisite, Bact. 101. Lab. fee, \$5. Five credits; winter. Magnusson and Hoffstadt.

107. *Sanitation*.—Technique and application of bacteriology to sanitary engineering. For engineers. Lab. fee, \$5. Three credits; winter. Weinzirl and assistant.

110, 111, 112. *Pathology*.—Gross and microscopic study of inflammation, degeneration and tumors. Prerequisite, Anat. 105. Lab. fee, \$5. Five credits; autumn, winter, spring. Hoffstadt.

120, 121, 122. *Applied Bacteriology*.—Work in practical laboratories, media room, public health, private, hospital or industrial laboratories. Twenty hours per week. Registration, written report and letter from director required. For bacteriology majors only. Prerequisites, Bact. 102, 104, 105, 106. Five credits; autumn, winter, spring, summer. Weinzirl.

126, 127, 128. *Survey of Recent Bacteriological Literature*.—One credit; autumn, winter, spring. Hoffstadt.

COURSES FOR GRADUATES ONLY

204, 205, 206. *Advanced Bacteriology*.—Work on assigned topics. Under this head nearly all types of work can be provided. Time and credit to be arranged. Autumn, winter, spring, summer. Weinzirl.

207, 208, 209. *Seminar*.—Two credits; autumn, classification of bacteria; winter, filterable viruses; spring, public health administration. Weinzirl, Hoffstadt.

210, 211, 212. *Research*.—Investigation of assigned problems. Open to qualified students after consultation. Credits to be arranged; autumn, winter, spring, summer. Weinzirl and staff.

BOTANY

Science Hall

Professors Frye, Rigg; Associate Professor Hotson.

SUGGESTED SELECTIONS

For the required biological science in the Colleges of Liberal Arts and Science, only courses 1, 2, 3, 4, 105, 106, 107 will be accepted. Students in the College of Fine Arts desiring to satisfy the science requirement by taking botany may select from this list, or they may include 101. It is recommended that they include 101 where possible.

For a major: Courses 105, 106, 107, 140, 141, 142, 143, 144, 145 of which 105, 106, 107 are required.

For teaching botany: 105, 106, 107, Edu. 160A, Bot. 140, 141, 142, 143, 144, 145, are suggested.

For pharmacy students: 13, 14.

For forestry students: 11, 12, 101, 111, 140, 141, 142:

For fisheries students: 53.

1. *Elementary Botany*.—Structure and functions of roots, stems, leaves and seeds. Lab. fee, \$2. Five credits; autumn and winter.

2. *Elementary Botany*.—Types of the great groups of plants from the highest to the lowest. Prerequisite, 1. Lab. fee, \$2. Five credits; winter. Rigg and assistants.
Frye and assistants.

3. *Elementary Botany*.—Plant analysis; field work with local flora. Open to students entering without botany. Lab. fee, \$2. Five credits; spring. Offered in alternate years with Bot. 4. Frye and assistants.

*4. *Ecology*.—A field study of plant communities with lectures on the principles of ecology. Prerequisite, Bot. 1 or 3. Fee, \$2. Five credits; spring. Offered in 1929-30 and after that in alternate years with Bot. 3. Rigg and assistants.

11, 12. *Foresters' Botany*.—Types of plants illustrating the advance in complexity. For forestry students. Lab. fee, \$2. Five credits a quarter; winter and spring. Hotson and assistants.

13, 14. *Pharmacy Botany*.—Gross structure of vegetative and reproductive parts of seed plants, brief study of spore plants; microscopy of powdered drugs. Lab. fee, \$2. Five credits, winter; four credits, spring. Rigg and assistants.

53. *Aquatic Botany*.—Plants of fresh water habitats, especially those involved in the study of fishes and their culture. Lab. fee, \$2. Five credits; spring. Rigg.

90. *Greenhouse Practice*.—Students do actual work in the University greenhouse, gaining knowledge of soils, fertilizers, methods of propagation, etc. Lab. fee, \$2. Three credits; spring. Hotson, Metzger.

101. *Landscape Gardening*.—The plants used in beautifying lawns and houseyards, their propagation and use. Lab. fee, \$2. Five credits; spring. Registration limited to 20 students. Hotson.

105, 106, 107. *Morphology and Evolution*.—Morphological study of types to show advances in complexity. Required for all majors unless courses 11 and 12 are taken in the freshman year. Prerequisite, 10 hours botany, or Zool. 1 and 2. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Frye and assistants.

*Not offered in 1928-1929.

111. *Forest Pathology*.—Recognition and treatment of common wood destroying fungi. Prerequisite, Bot. 11 or 105. Lab. fee, \$2. Five credits; autumn. Hotson and assistant.

119. *Plant Histology*.—Preparation of slides for the microscope; a study of tissues. Prerequisite, Bot. 106. Lab. fee, \$3. Two to five credits; autumn. Frye.

120. *History of Botany*.—The great ideas from the dawn of history to date. Three credits; autumn. Frye.

140, 141, 142. *General Fungi*.—Morphology and classification of fungi as a basis for plant pathology. Prerequisite, Bot. 11 or 105, junior standing. Lab. fee, \$2. Five credits a quarter; autumn, winter, spring. Hotson.

143, 144, 145. *Plant Physiology*.—Prerequisite, three quarters of botany and Chem. 22. Desirable prerequisites, Chem. 133 and Physics 2. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Rigg.

180, 181, 182. *Plant Pathology*.—Diseases of plants and the fungi which produce them. Prerequisite, Bot. 142. Lab. fee, \$2. Five credits a quarter; autumn, winter, spring. Hotson.

199. *Proseminar*.—Semi-independent work by students. Open only on consultation with the head of the department. Lab. fee, \$2. Two to five credits; any quarter. Frye, Rigg, Hotson.

Teachers' Course in Botany.—See Educ. 160A.

COURSES FOR GRADUATES ONLY

220. *Advanced Fungi*.—Prerequisite, Bot. 142. Lab. fee, \$2. Five credits; any quarter. Hotson.

233. *Research*.—Lab. fee, \$2. Two to five credits; any quarter.

247. *Diatoms*.—Prerequisite, Bot. 53 or 105. Lab. fee, \$2. Three credits; autumn. Frye, Rigg, Hotson.

250. *Algae*.—Prerequisite, Bot. 105. Lab. fee, \$2. Credits to be arranged; autumn, winter. Frye.

251. *Bryophytes*.—Prerequisite, Bot. 106. Lab. fee, \$2. Credits to be arranged; any quarter. Frye.

271, 272, 273. *Experimental Morphology*.—Prerequisites, Bot. 106, 145, one year chemistry. Lab. fee, \$2. Two credits a quarter; autumn, winter, spring. Frye.

279. *Colloidal Biology*.—Prerequisites, Bot. 143, Chem. 132. Desirable prerequisites, Chem. 141 and 204. Lab. fee, \$3. Five credits; any quarter. Rigg.

280. *Micrometabolism*.—Prerequisites, Bot. 12 or 107, 145. Lab. fee, \$3. Five credits; any quarter. Rigg.

CERAMICS

Mines Hall

See Mining, Metallurgy and Ceramics.

CHEMISTRY AND CHEMICAL ENGINEERING

Bagley Hall

Professors Benson, Johnson, Dehn, Smith, Tartar; Associate Professors Thompson, Lynn; Assistant Professors Beuschlein, Powell, Norris; Instructors Sivertz, Larson; Associates Radford, Jackson.

Instruction in this department is designed to satisfy as far as possible, the requirements of students who desire to study chemistry as a means of culture and as a necessary complement of a liberal education; but as the subject is eminently practical, it is also the desire of those in charge to guide the student so that he may fit himself for work in lines in which chemistry has become an applied science.

REQUIREMENTS OF THE DEPARTMENT

Students wishing to specialize in chemistry may select one of the three courses: (1) the elective curriculum for those who want a general course in chemistry, leading to the degree of B.S. in the College of Science (see College of Science bulletin); (2) the suggested curriculum for those who intend to make use of chemistry as a vocation, leading to the degree of B.S. in Chemistry (see College of Science bulletin); (3) the prescribed curriculum in chemical engineering for those who plan to engage in manufacturing industries, leading to the degree of B.S. in Chemical Engineering (see College of Engineering bulletin). Courses 7, 8, 9, 10, 37, 38 and 39 may not be counted toward a major in the department.

The fee for each laboratory course is \$6.50 a quarter. This covers general laboratory expense such as gas, water and depreciation. For purchase of chemicals and apparatus, each student is required to buy a break-age ticket when he obtains his locker key. The cost of the tickets is \$5. Any unused portion will be refunded.

1-2. *General Inorganic Chemistry*.—Open only to students not having had accredited high school chemistry. Two lectures, one recitation and two 2-hour laboratory periods a week. Five credits a quarter; any quarter.

Smith, Tartar, Thompson, Powell, Sivertz.

7. *General Chemistry for Hospital Students*.—Three recitations and two 2-hour laboratory periods. Any quarter. Five credits. Benson.

8-9-10. *General Chemistry and Qualitative Analysis*.—Open only to pharmacy students. The work in the spring quarter is qualitative analysis. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Lynn.

21-22. *General Inorganic Chemistry*.—Open only to students having accredited high school chemistry. Two lectures, one recitation and two 2-hour laboratory periods a week. Five credits a quarter; any quarter.

Smith, Tartar, Thompson, Powell, Sivertz.

23. *Elementary Qualitative Analysis*.—Prerequisite, Chem. 2 or 22, or equivalent. Two lectures, one recitation and two 2-hour laboratory periods a week. Five credits a quarter; any quarter.

Smith, Tartar, Thompson, Powell, Sivertz.

37-38-39. *Organic Pharmaceutical Chemistry*.—Organic chemicals of the U.S. Pharmacopoeia. Open only to pharmacy students. Prerequisite, Chem. 10 or its equivalent. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Johnson.

52. *Chemical Technology*.—Application of mathematics, physics, and chemistry to unit chemical operations. No fee. Prerequisites, Chem. 23, Physics 1 or 97 and Math. 61. Three lectures. Three credits; spring.

Beuschlein.

55. *Forest Products*.—Prerequisite, Chem. 2 or 22. Three credits; spring. Benson.
101. *Advanced Qualitative Analysis*.—Two lectures and three laboratory periods a week. Prerequisite, Chem. 23 or its equivalent. Five credits; autumn, spring. Thompson.
104. *Food Chemistry*.—Methods of analysis of various foods and federal and state laws studied. Two lectures and two laboratory periods a week. Four credits; spring. Norris.
109. *Quantitative Analysis*.—Gravimetric analysis. Prerequisite, Chem. 23 or its equivalent. Two lectures and three laboratory periods a week. Five credits; autumn, winter. Thompson.
110. *Quantitative Analysis*.—Volumetric analysis. Two lectures and three laboratory periods a week. Prerequisite, Chem. 109. Five credits; winter, spring. Thompson.
111. *Quantitative Analysis*.—Gravimetric and volumetric methods for students not majoring in chemistry. Prerequisite, two quarters of chemistry. Two lectures and three laboratory periods a week. Five credits; autumn, winter, spring. Thompson.
119. *Industrial Chemistry for Engineers*.—The study of water, sewage, iron, steel and cement from an evaluative standpoint. Prerequisite, Chem. 23 or equivalent. Three credits. Two lectures and one laboratory period. Winter. Benson.
- 121, 122, 123. *Industrial Chemistry*.—Autumn—fuel, gases, cements, refractories, iron, steel, and alloys; winter—processes for manufacture of acids, alkalis; spring—organic industrial chemistry, oils, fats, paints, rubber, cellulose products. Three lectures and two laboratory periods a week. Prerequisite, Chem. 52, 111 or equivalent. Five credits a quarter; autumn, winter, spring. Benson, Beuschlein.
- 128-129. *Organic Chemistry*.—For medical, chemical engineering and technical students. Three lectures and two laboratory periods a week. Prerequisite, Chem. 22, or its equivalent. Five credits a quarter; winter, spring. Powell.
- 131, 132, 133. *Organic Chemistry*.—For major students in chemistry and for students in the College of Science. Three lectures and two laboratory periods a week. Prerequisite, Chem. 23 or its equivalent. Five credits; autumn, winter, spring. Dehn.
134. *Manufacture of Industrial Organic Chemicals*.—Manufacture of organic chemicals on a semi-commercial scale. Two laboratory periods a week. Prerequisite, Chem. 129 or 132. Two credits; autumn. Powell.
- 135-136. *Organic Chemistry*.—For home economics students. Only women are admitted. Three lectures and two laboratory periods a week. Prerequisite, Chem. 6, or its equivalent. Five credits a quarter; autumn, winter. Powell.
- 140-141. *Elementary Physical Chemistry*.—Descriptive, non-mathematical, for pre-med and science students not majoring in chemistry. Chemistry majors may, with the instructor's permission, take this instead of 181-182. Two lectures and one-laboratory period. Prerequisites, Chem. 111, or equivalent, and ten hours of physics. Three credits a quarter; winter, spring. Sivertz.
144. *Physiological Chemistry*.—For fisheries and home economics students. Prerequisite, Chem. 129 or equivalent. Three lectures and two laboratory periods. Five credits; spring. Norris.

ADVANCED UNDERGRADUATES AND GRADUATES

*150. *Industrial Seminar.*

152. *Advanced Chemical Technology.*—Mathematical study of chemical processes with quantitative solutions of typical engineering problems. No fee. Prerequisite, Chem. 172. Three credits; spring. Beuschlein.

155. *Chemistry of Water.*—Study of natural waters with special emphasis upon sea water. Prerequisites, Chem. 111 or equivalent. Three credits. Two lectures and one laboratory period. Spring. Thompson.

161-162. *Physiological Chemistry.*—For students of medicine, biology, bacteriology and nutrition. Deals with chemical constitution, reactions, and products of living material both plant and animal. Prerequisites, Chem. 111 and 131 or equivalent. Three lectures and two laboratory periods. Five credits; autumn, winter. Norris.

163. *Physiological Chemistry.*—Study of normal and pathological blood and urine. For students of medicine, nurses, and clinical technicians. Prerequisites, Chem. 111 and 131 or equivalent. One lecture and two laboratory periods. Three credits; spring. Norris.

164. *Chemistry of Plant and Animal Tissues.*—Application of physiological chemistry to the study of biology. Prerequisites, Chem. 111 or 110 and 129. One lecture and two laboratory periods. Three credits; winter. Norris.

165. *Chemistry of Nutrition.*—Enzyme and chemical reactions involved in digestion and metabolism. Prerequisite, Chem. 111 or 110 and 129. Two lectures and one laboratory period. Three credits; autumn. Norris.

166. *Biochemical Preparations.*—Preparations of special substances involving biochemical methods. Two to three credits; autumn, winter, spring. Norris.

171, 172. *Chemical Engineering.*—Basic operations common to chemical industries. Laboratory studies of typical apparatus. Three recitations and two laboratory periods. Prerequisite, Chem. 123. Five credits; autumn, winter. Beuschlein.

173. *Chemical Engineering.*—Continuation of Chem. 172. Three drawing periods a week. No fee. Prerequisites, Chem. 52, 123. Three credits; spring. Beuschlein.

176, 177, 178. *Chemical Engineering Thesis.*—Subject to the approval of the head of the department, the student selects a suitable topic for investigation, which will be directed by the instructor concerned. A conference hour must be arranged. Final report must comply with the regulations of the University Library. One to five credits a quarter. Fee, \$1 per credit hour. Autumn, winter, spring. Benson, Beuschlein.

181, 182, 183. *Physical and Theoretical Chemistry.*—Fundamental principles and theories of chemistry accompanied by physico-chemical measurements. Prerequisites, one year (15 credits) college physics, and Chem. 110. Three lectures and two laboratory periods a week. Five credits a quarter; autumn, winter, spring. Tartar, Sivertz.

*190, 191. *History of Chemistry.*—(Offered every other year, alternating with 205, 206, 207.)

Teachers' Course in Chemistry.—See Educ. 160B.

*Not offered in 1928-1929.

COURSES FOR GRADUATES ONLY

200. *Departmental Seminar*.—Required of all graduate students during residence. Assigned readings and reports on the chemical literature. No fee. One-half credit a quarter, maximum of two credits will be allowed to any student; autumn, winter. Powell.

201, 202, 203. *Advanced Theoretical and Physical Chemistry*.—(Offered every other year, alternating with 204, 215, 216.) An advanced course giving a detailed study of different phases of the subject. Prerequisites, one year (15 credits) of college physics, calculus, and Chem. 182. No fee. Three lectures. Three credits a quarter; autumn, winter, spring. Tartar.

*204. *Chemistry of Colloids*.—(Offered every other year, alternating with 201, 202, 203.)

205, 206, 207. *Inorganic Preparations*.—(Offered every other year, alternating with 190, 191.) Preparation of special substances involving representative laboratory methods. Any quarter may be taken independently. Credits and laboratory period to be arranged; autumn, winter, spring. Smith.

208, 209. *Advanced Quantitative Analysis*.—Special methods of analytical chemistry. Either quarter may be taken independently. Prerequisite, Chem. 111 or its equivalent. One lecture and two laboratory periods. Three credits; autumn, winter. Thompson.

210, 211, 212. *Organic Preparations*.—Preparation of special substances involving representative laboratory methods. Any quarter may be taken independently. Credits and laboratory periods to be arranged. \$1 per credit hour. Autumn, winter, spring. Powell.

*215, 216. *Advanced Theoretical and Physical Chemistry*.—(Offered every other year, alternating with 202, 203.) Radioactivity, atomic structure, interrelation of the chemical elements, periodic system, energy exchange in atomic and molecular processes, activated molecules. Prerequisite, Chem. 182. Three lectures. No fee. Three credits; winter, spring. Tartar.

*219. *Advanced Chemical Engineering*.

221, 222, 223. *Advanced Inorganic Chemistry*.—Periodic system of the elements. Two quarters devoted to the elements and their ordinary compounds, and one quarter to the chemistry of the higher order compounds. Recommended for all majors and graduate students. No fee. Three credits a quarter; autumn, winter, spring. Smith.

230. *Organic Analysis*.—Special methods used in the analysis of organic substances. Prerequisites, Chem. 133 and 110. Laboratory periods to be arranged. Three or six credits; \$1 per credit hour; autumn, winter. Thompson.

231, 232, 233. *Advanced Organic*.—Detailed study of special fields of organic chemistry. Any quarter may be taken independently. Prerequisite, Chem. 129 or equivalent. No fee. Three lectures. Three credits a quarter; autumn, winter, spring. Dehn.

236. *Advanced Physical Chemistry Laboratory*.—Advanced laboratory course in physico-chemical measurements. Work adapted to the interest and needs of the students and may include measurements in thermochemistry, electrochemistry, spectroscopy, ultramicroscopy, nephelometry, radioactivity, colloid chemistry, etc. Prerequisite, Chem. 182. One to five credits and laboratory periods to be arranged. Fee \$1 per credit hour; any quarter. Tartar.

*Not offered in 1928-1929.

249. *Graduate Seminar*.—Assigned readings and reports dealing with special topics. Offered as desired by members of the different divisions of the department. Hours and credits to be arranged. No fee. Autumn, winter, spring. Staff.

250. *Research*.—The work in research is of three types: (1) Special investigations by advanced students under direction of members of the staff; (2) Research for the master's degree. Maximum credit nine hours. (3) Research for the doctor's degree under direction of any member of the senior staff of the department. Maximum credit forty-five hours. \$1 per credit hour. Staff

CIVIL ENGINEERING

Mines Hall

Professors More, Harris; Associate Professors May, Wilcox; Assistant Professors Miller, Collier, Hamilton; Instructor Van Horn

53. *Mine Surveying*.—Study of special methods used in underground surveying. Observation for meridian; mining claim survey and topography. For mining engineers. Prerequisite, G.E. 21. Lab. fee, \$2. Three credits; winter.

54. *Topographic Surveys*.—Field and office collection of information and platting of field notes for topographic surveys. For geology students. Lab. fee, \$2. Three credits; spring.

55. *Forest Surveying*.—Practice with chain, compass and level. Use of bearings and distances in mapping. For forestry students. Lab. fee, \$2. Two credits; winter. Hamilton.

56. *Forest Surveying*.—Plane surveying with reference to work in forestry. Orientation. Prerequisite, C.E. 55. Lab. fee, \$2. Five credits; spring. Hamilton.

57. *Curves and Earthwork*.—Complete survey, map, profile and estimate of a railroad or highway project. Field and office practice in the use of horizontal and vertical curves; the measurement and computation of earthwork. Prerequisite, G.E. 21 or C.E. 56. Lab. fee, \$2. Four credits; autumn. Hamilton.

58. *Survey Office Practice*.—Office practice in preparing completed drawings of surveys. Prerequisite, G.E. 21. Two credits; winter. Hamilton.

59. *Advanced Surveying*.—Base line measurement and triangulation. Barometric, trigonometric and precise leveling. Astronomical determination of azimuth, latitude and time. Use of plane table. Hydrographic surveying. Prerequisite, G.E. 21. Lab. fee, \$2. Four credits; spring. Hamilton.

100. *Plant Design*.—Layout of construction plants and the design of special equipment. Prerequisite, C.E. 132. Two credits; winter. A. L. Miller.

106. *Sanitation and Plumbing*.—For architects. Two credits; winter.

120. *Transportation Engineering*.—An outline of the engineering features of the field of transportation. Prerequisite, C.E. 58. Two credits; autumn. J. W. Miller.

121. *Transportation Engineering*.—Theory and practice in the location and design of highways and railways. Prerequisite, C.E. 120. Four credits; spring. J. W. Miller.

123. *Transportation Engineering*.—Economics of railway and highway

location and construction. Problems in location, operation and maintenance. Three credits; autumn. J. W. Miller.

124. *Highways*.—Theory and practice in the design of highways and streets. Engineering considerations in the selection, improvement and maintenance of highway systems. Prerequisite, C.E. 121. Four credits; winter. J. W. Miller.

125. *Railways*.—The economic theory of railway location and operation. Gradient, curvature, distance, rise and fall. Prerequisite, C.E. 121. Three credits; winter. J. W. Miller.

127. *Yards and Terminals*.—Design and operation of railway freight and passenger yards, air and bus terminals. Prerequisite, C.E. 121. Three credits; spring. J. W. Miller.

128. *Transportation Administration*.—Highway and railway administration. Railway rates and valuations. Highway jurisprudence and administration. Prerequisite, C.E. 124, 125. Three credits; spring. J. W. Miller.

130. *Theory of Building Construction*.—For architects. Three credits; autumn. May.

131. *Mechanics*.—Fundamental principles of mechanics. Kinetics, kinematics. Prerequisites, Math 62, Physics 97. Three credits; autumn, winter, spring. A. L. Miller.

132. *Mechanics*.—Mechanics of materials. Analysis and design of structural members. Prerequisite, C.E. 131. Three credits; autumn, winter, spring. A. L. Miller.

142. *Hydraulics*.—Flow of water through pipes, orifices, over weirs and in open channels; energy and reaction of jets with application to impulse wheels; review of hydro-statics. Prerequisite, C.E. 131. Lab. fee, \$2. Five credits; autumn, winter, spring. Harris, Hamilton, Wilcox, Van Horn.

143. *Hydraulic Engineering*.—Complete projects presenting hydraulic engineering; hydrometric methods; economic design of pipes and spillways. Prerequisite, C.E. 142. Lab. fee, \$2. Five credits; winter. Harris, Van Horn.

145. *Hydraulic Machinery*.—Development and theory of water wheels and turbine pumps; design of a reaction turbine; hydrostatic machinery and dredging equipment. Prerequisite, C.E. 142. Three credits; autumn. Harris.

147. *Hydraulic Power*.—Investigation of power development; generation of power; penstocks and turbines; types of installations. Prerequisite, C.E. 142. Three credits; spring. Harris.

150. *Sanitary Engineering*.—Relation of biology, bacteriology and chemistry to water supply and sewage. Elements of the design of water supply and sewerage systems and sewage disposal plants. Refuse collection and disposal. Industrial hygiene. Prerequisite, C.E. 142. Lab. fee, \$2. Three credits; spring. Van Horn.

155. *Water Supply Problems*.—Design, cost estimation, construction, operation and maintenance of water systems and purification plants. Prerequisite, C.E. 150. Lab. fee, \$2. Three credits; winter. Van Horn.

157. *Reclamation*.—Reclamation of land by drainage and diking. Elements of irrigation engineering. Prerequisite, C.E. 143. Three credits; autumn. Van Horn.

158. *Sewerage and Sewage Treatment*.—Design, construction, operation and maintenance of sewerage systems and sewage disposal plants. Prerequisite, C.E. 150. Lab. fee, \$2. Three credits; spring. Van Horn.

159. *Drainage, Waterways, and Flood Control*.—Advanced study of large area drainage in connection with flood control. The design of artificial waterways. Prerequisite, C.E. 143. Two credits; spring. Harris, Van Horn.

162. *Materials of Construction*.—Investigation of the strength and physical characteristics of Portland cement concrete and clay products. Principles of proportioning concrete. Prerequisite, C.E. 132. Lab. fee, \$2. Three credits; autumn. Collier.

163. *Materials of Construction*.—Strength and physical characteristics of timber and steel. Prerequisite, C.E. 132. Lab. fee, \$2. Three credits; winter. Collier.

171. *Structural Analysis*.—Reinforced Concrete.—Investigation of the stresses in reinforced concrete structures and structural members. Junior civil engineers. Prerequisite, C.E. 132. Lab. fee, \$2. Three credits; autumn. More.

172. *Structural Analysis*.—Steel.—Investigation of the stresses in riveted and welded steel structures and structural members. Prerequisite, C.E. 171, or permission. Three credits; winter. More.

173. *Structural Analysis*.—Timber.—Investigation of the stresses in timber structures and structural members. Prerequisite, C.E. 132, or permission. Three credits; spring. More.

175. *Structural Design*.—Reinforced Concrete.—Design of reinforced concrete structures and structural members. Prerequisite, C.E. 171. Four credits; autumn. More.

176. *Structural Design*.—Steel.—Design of welded and riveted steel structures and structural members. Prerequisite, C.E. 172. Four credits; winter. More.

177. *Structural Design*.—Timber.—Design of timber structures and structural members. Prerequisite, C.E. 172. Three credits; spring. More.

181, 182, 183. *Advanced Structural Analysis*.—Investigation of the stresses and deflections in structures and structural members with particular reference to statically indeterminate cases. Seniors and graduates. Three credits; autumn, winter, spring. More.

185, 186, 187. *Advanced Structural Design*.—Design of structures. Arches. Statically indeterminate trusses. Seniors and graduates. Four credits; autumn, winter, spring. More.

192, 194, 196. *Research*.—Two to five credits; autumn, winter, spring. Staff.

198. *Thesis*.—Three to six credits; autumn, winter, spring. Staff.

199. *Engineering Relations*.—A study of business relations and economic conditions involved in engineering projects. Prerequisite, senior standing. Three credits; spring. May.

COURSES FOR GRADUATES ONLY

210, 212, 214. *Research*.—For graduates. Two to five credits; autumn, winter, spring. Staff.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

CLASSICAL LANGUAGES AND LITERATURE

Denny Hall

Professors Thomson, Sidey; Associate Professors Stone, Densmore; Assistant Professor Read; Instructor Ware; Associate Ballaine

Requirements for a major: at least 36 hours in the department, chosen from courses other than Greek 8-9-10, 11, 13, 14, 15-16; Latin 1-2-3, 4, 5, 6, 11, 14-15-16. At least fifty per cent of the hours in the major must be in upper division courses. A student specializing in Greek must take at least nine hours of Latin; one specializing in Latin must take at least ten hours of Greek. At the conclusion of the senior year all major students must take the senior examination.

I. GREEK

1-2, 3. *Elementary Greek*.—Translation from a wide range of Greek authors. An especial effort will be made to give students who take but one year of Greek an appreciation of its spirit and its bearing on the English language. A maximum of five credits a quarter. Densmore.

4. *The Persian War Period*.—Wide readings in Herodotus. Prerequisite, Greek 3. Three credits; autumn. Densmore.

5, 6. *The World of Homer*.—Readings from the story of Achilles and the wanderings of Odysseus on a background of a general study of the history of the period down to Hesiod. Prerequisite, Greek 4. Three credits; winter, spring. Densmore.

*8-9-10. *Greek Art*.

11. *Greek Civilization*.—Institutional and cultural survey of the Greek world from the earliest times to the Roman conquest. Illustrated lectures, conferences and discussions. Knowledge of Greek not required. Upper division students may earn upper division credit by special work under the direction of the instructor. Five credits; spring. Densmore.

*12. *Advanced Greek Civilization*.

13. *Greek Literature*.—The masterpieces in English translations. Knowledge of Greek not required. Five credits; autumn, winter, spring. Sidey.

15-16. *Greek Civilization and Literature*.—Duplication of Greek 11, but including the literature in translation as a fundamental expression of the Greek genius. Knowledge of Greek not required. Open to freshmen only. Five credits a quarter; autumn and winter. Densmore.

101, 102, 103. *The Periclean Age*.—Greek civilization from the founding of the Delian Confederacy to the death of Socrates. Readings, conferences, and reports. Prerequisite, Greek 5 or equivalent. Three credits a quarter; autumn, winter, spring. Densmore.

104, 105, 106. *Greek Poetry*.—Lyric Poetry, tragedy, and pastoral poetry. Prerequisite, Greek 5 or equivalent. Two credits a quarter; autumn, winter, spring. Densmore.

151, 152, 153. *Plato*.—Intensive study of the Republic, the Laws (in part) and some of the shorter dialogues. Prerequisite, Greek 101, 102, 103. Three to five credits a quarter; autumn, winter, spring. Densmore.

*191, 192, 193. *Literary Criticism in Connection with Sophocles*.

*Not offered in 1928-1929.

II. LATIN

1-2, 3. *Elementary Latin*.—First and second year high school Latin. For those who previously have had little or no Latin, and wish to bring their preparation up to college requirements. Given if any considerable number desire it. Five credits a quarter; autumn, winter, spring. Read.

4, 5, 6. *Cicero or Vergil*.—Prerequisite, two years high school Latin or Latin 1-2-3 in the University. May be substituted for the requirement in ancient language, life and literature. Qualifies a student for Latin 21. Review of grammar and syntax. Selections from Cicero or Vergil. Five credits a quarter; autumn, winter, spring. Ware.

8. *Law Latin and Selections from Roman Law*.—Prerequisite, at least two years of high school Latin or its equivalent. In rare cases the consent of the instructor is sufficient. Primarily for pre-law students, but open to others also. Five credits; autumn. Ware.

*9. *Law Latin and Selections from Roman Law*.

*10. *Law Latin and Selections from Roman Law*.

11. *Roman Civilization*.—Class-room work two days a week on the private life of the Romans, with lectures on the alternate days illustrating the part played in history by the Romans, and their contributions to modern civilization. Collateral readings and reports. No knowledge of Latin required. Five credits; autumn (open to entering freshmen only); winter (open to all); spring (open to all). Stone, Ware.

13. *Roman Literature*.—The masterpieces in English translation. Knowledge of Latin not required. Five credits; autumn, winter, spring. Read.

14-15-16. *Roman Art*.—Roman architecture for two quarters, followed by sculpture, numismatics and minor arts. Illustrated by photographs and slides. Primarily for students of Fine Arts, but open to all. Alternates with the course in Greek Art. One credit a quarter; autumn, winter, spring. Sidey.

NOTE.—To enter courses 21 to 25, the student is expected to be thoroughly familiar with the declensions and conjugations and with the normal phenomena of Latin syntax to be found in Caesar, Cicero and Vergil.

21. *Cicero: De Senectute; Latin Literature (Mackail)*.—With some exercises in grammar and composition. Careful attention to English translation. Prerequisite, three and one-half years' high school Latin; five credits; autumn. Sidey.

*22. *Catullus, Latin Literature (Mackail)*.

*23. *Vergil: Georgics and Bucolics; Latin Literature (Mackail)*.

24. *Sallust: Catiline and Jugurtha; Latin Literature (Mackail)*.—With some exercises in grammar and composition. Prerequisite, three and a half years of high school Latin. Three or five credits; winter. Sidey.

25. *Ovid*.—With some exercises in grammar and composition. Selections, chiefly from the *Metamorphoses*, with some study of the same myths as they appear in English literature: *Latin Literature (Mackail)*. Prerequisite, three and a half years of high school Latin. Five credits; spring. Sidey.

100. *Livy*.—One book and selections from the other books. Prerequisite, Latin 21, 24, 25, or special permission. Five credits; autumn. Stone.

*Not offered in 1928-1929.

101. *Horace*.—Selections from the complete works. Prerequisite, Latin 21, 24, 25 or special permission. Five credits; winter. Stone.

*102. *Tacitus: Agricola. Martial; Epigrams. (Selections)*.

103. *Plautus and Terence*.—*Selected Plays*. Prerequisite, Latin 21, 24, 25, or special permission. Five credits; spring. Stone.

106. *Syntax and Prose Composition (Advanced)*.—Students should, if possible, register for this course in combination with Education 160C, as the work of the two courses is closely correlated. Prerequisite, Latin 100 or 101 or 102 or equivalent. Three credits; autumn. Stone

107. *The Age of Cicero*.—Selected portions of Cicero's correspondence, with collateral reading. Prerequisite, Latin 100 or 101 or 102 or equivalent. Three credits; winter. Stone.

*108. *Vergil's Aeneid*.

*109. *Pliny's Letters; Tacitus: Germania*.

113. *Roman Home Life and Religion*.—Selections from Rogers and Harley's text, with collateral reading and reports. Prerequisite, Latin 100 or 101 or 102 or equivalent. Three credits; spring. Stone.

151. *Cicero: Tusculan Disputations and Seneca: Moralia*.—Two to five credits; winter. Sidey.

152. *Quintilian: Book X and Horace: Ars Poetica*.—Two to five credits; spring. Sidey.

153. *Christian Latin*.—Selections from Minucius Felix, Augustine, Lactantius and other early Christian writers. Open to graduates and advanced undergraduates. Two to five credits; autumn. Sidey.

*154. *Latin Epistolary Literature*.

*155. *Cicero: De Oratore or Orator and Pro Plancio*.

185, 186. (285, 286). *Vulgar Latin*.—Vocabulary and syntax; relation to archaic Latin, literary Latin, and especially to the Romanic languages. Reading of texts, with additional work adapted to the needs of individual students. Undergraduates will register under numbers 185 and 186, graduates under numbers 285 and 286. Prerequisite, at least four quarters of college Latin and three years (or six quarters) of either French, Spanish, or Italian. Three to five credits each quarter; winter and spring. Stone.

Teachers' Course in Latin.—See Educ. 160C.

DRAMATIC ART

Denny Hall

Assistant Professors Lovejoy, Hughes; Associates Crawford, Blanchard, Conway, Hanson

The work in this department is planned for two classes of students: (a) those who desire knowledge of dramatic art as part of a liberal education; (b) those who need knowledge of dramatic art as part of their technical training.

For a major the department requires 73 to 89 credits in dramatic art. Two degrees are offered: (1) Bachelor of Arts in Dramatic Art; (2) Bachelor of Fine Arts with a Major in Dramatic Art.

*Not offered in 1928-1929.

All courses in the department, with the exception of 101-102-103 and 107-108, may be entered at the beginning of the first, second or third quarters.

5. *Phonetics, Elementary Course.*—The sounds of spoken English analyzed as a basis for correcting racial, regional, class and individual defects. Articulation, pronunciation and ear training practice. Use of phonetic-dictionary, cultivation of the speaking voice. Five credits; autumn, winter, spring. Crawford.

9, 10. *Theater Backgrounds.*—A general introduction to the study of the modern theater and drama. Two credits; autumn, winter. Lovejoy.

61, 62, 63. *Dramatic Interpretation.*—Selected plays are used as exercises in dramatic delivery and for the study of effectiveness in the reading of lines. Five credits a quarter; autumn, winter, spring.

101-102-103. *Play-acting.*—Practical course in the art of acting. Interpretation of standard and original plays. One lecture and two 2-hour laboratory periods a week. Prerequisite, Dram. Art. 5. Fee, \$1. Three credits a quarter; autumn, winter, spring. Lovejoy, Blanchard, Conway.

104, 105, 106. *Theatre Workshop.*—Construction of model and actual stage settings, properties, costumes, masks, stage lighting, general mechanics of the theatre. Two hours lecture, and four hours laboratory. Lab. fee, \$2. Four credits a quarter; autumn, winter, spring. Conway.

107-108. *Advanced Phonetics.*—A continuation of D.A. 5. Study of intonation. The oral study of literature. Mastery of foreign sounds. The purpose of this course is to make good speech natural and spontaneous in reading, speaking and acting. Prerequisite, Dram. Art. 5. Five credits a quarter; winter, spring. Crawford.

111, 112, 113. *Play-writing.*—Principles of dramatic composition, with experimental creative work. Five credits a quarter; autumn, winter, spring. (May receive credit in English.) Hughes.

114, 115, 116. *Advanced Theater Workshop.*—A continuation of Dram. Art. 104, 105, 106. Two credits; autumn, winter, spring. Fee, \$2. Conway.

127. *The History of Theatre Art.*—Origin and development of theatre art. Physical structure of playhouses. Evolution of stage machinery and settings. Masks, marionettes. Realism, symbolism. Lectures and required readings. Five credits; autumn. (May receive credit in English.) Hughes.

133. *Staging of Shakespeare.*—Designed to give the student a working knowledge of Shakespearean production. One play will be studied each quarter and entire plan of production covered. Cutting, interpretation, stage business, costuming, properties and scenery. Three credits; spring. Lovejoy.

151, 152, 153. *Representative Plays.*—Origin and development of the drama. Representative plays of all important periods and countries are studied and discussed. Three credits a quarter; autumn, winter, spring. (May receive credit in English.) Hughes.

Teachers' Course in Dramatic Art.—See Educ. 160L.

OTHER COURSES WHICH MAY RECEIVE CREDIT IN DRAMATIC ART

English 40. *Essentials of Speaking.*—Five credits; autumn winter, spring.

English 41. *Advanced Speaking.*—Three credits; winter, spring.

ECONOMICS AND BUSINESS ADMINISTRATION

Commerce Hall

Professors Cox, Gould, Preston, Dakan, Coon, Frame, Burd, Skinner, Leib; Associate Professors Eldred, Smith, McMahon, Renner, Gregory; Assistant Professors McIntyre, Ashley, Rice; Lecturers McConahey, Robertson, Davis, Draper, Truax; Associates Grant, Foisie; Instructors Van de Walker, Hamack, Miller, Calhoun, Graves, Purdy.

Economics.—Courses 1, 2, 3, 61, 124, 129, 160, 164, 166, 168, 169, 171, 181, 201, 205.

Accounting.—Courses 62, 63, 64, 65, 110, 111, 112, 154, 155, 156, 157, 158, 184, 185, 191.

Business Correspondence.—Course 115.

Business Law.—Courses 54, 55, 56.

Finance.—Courses 103, 105, 121, 122, 125, 126, 127, 159, 176, 189, 197.

Foreign Trade and Consular Service.—Courses 7, 67, 117-118, 127, 143, 144, 145, 173, 195.

Insurance.—Courses 108, 139, 141, 142, 149, 170.

Labor.—Courses 60, 120, 128, 161, 162, 165, 166, 167, 207.

Management.—Courses 130, 163, 167, 172, 196.

Marketing, Merchandising, and Advertising.—Courses 106, 109, 134, 135, 136, 137, 138, 140, 146, 147, 148, 188, 198.

Public Utilities.—Courses 131, 132, 133.

Secretarial Work and Commercial Teaching.—Courses 15, 16, 18, 19, 81, 82, 83, 102, Edu. 160D, Edu. 160DD.

Statistics.—Courses 59, 175, 177.

Transportation and Maritime Commerce.—Courses 42, 49, 50, 51, 52, 67, 104, 107, 113, 114, 119, 149, 150, 151, 152, 195.

(B.A. 1 and 2 are absolutely prerequisite for all B.A. courses except with permission of the dean.)

1, 2. *General Economics.*—General principles of economics. Fee, \$.50. Five credits; autumn, winter, spring. Cox, Preston, Smith.

3. *General Economics.*—Same as B.A. 1 above, abbreviated for students in chemistry, pharmacy, forestry, fisheries and engineering. Fee, \$.50. Three credits; spring. Skinner.

7. *Geographic Backgrounds of Industry.*—A study of the environmental laws underlying the distribution of the major classes of raw materials; industrial organization in resource use; conservation of resources; factors locating industries; and the geographic laws of trade. (B.A. 1 not prerequisite.) Fee, \$.50. Five credits; autumn, winter, spring. Renner and assistants.

15. *Typewriting I.*—Fundamental principles of typewriting. Fee, \$10. No credit; autumn, winter, spring. Hamack, Swift, Graham.

16. *Typewriting II*.—Devoted to increasing the speed of the student on the typewriter. Fee, \$10. No credit; autumn, winter, spring.
Swift, Hamack, Graham.

18. *Shorthand I*.—Fundamental principles of shorthand in the first twelve lessons of the manual. Fee, \$10. No credit; autumn, winter.
Hamack, Swift.

19. *Shorthand II*.—Advanced shorthand. Prerequisite, B.A. 18. Fee, \$10. No credit; winter, spring.
Hamack.

42. *Wharf Management and Storage*.—Wharf efficiency and shipping profits; wharf layout and construction; wharf office organization; methods of cargo transfers; types of cranes and derricks; stowage and the stowage plan; warehousing and storage. Fee, \$50. Five credits; autumn. Gould.

49. *Ship Operation*.—Types of vessels, with reference to materials and methods of construction, stress and stability of hulls, methods of propulsion, measurement and stowage of cargo. Fee, \$50. Five credits; autumn, winter. (B.A. 1 not prerequisite.)
Gould.

50. *Navigation*.—Navigational instruments; compass deviation; piloting; dead reckoning; great circle sailing; moon's phases and tidal effects. Prerequisite, Math. 4. Fee, \$50. Three credits; autumn.
Commander Rice and staff.

51. *Navigation*.—Sextants; chronometers; equinoctial system; sidereal, apparent and mean time; horizon system; corrections of sextant altitudes; observations of sun, moon, planets, and stars for latitude. Prerequisite, B.A. 50. Fee, \$50. Three credits; winter. Commander Rice and staff.

52. *Navigation*.—Solution of the astronomical triangle; lines of position; navigator's work at sea (the day's work). Prerequisite, B.A. 51. Fee, \$50. Three credits; spring. Commander Rice and staff.

54. *Business Law*.—General introduction to municipal law, including jurisdiction of courts, pleading and procedure, etc., preparatory to reading of cases. Primary consideration is given in this and B.A. 55 and B.A. 56 to the law of contracts and sales of personal property, with incidental treatment of such subjects as damages, remedies, negotiation, business associations, etc., developed in discussion from an analysis of cases and problems. The course is designed to train the student in the analysis and solution of legal problems in ordinary business relations. Prerequisite, sophomore standing. Fee, \$50. Three credits; autumn, winter, spring. Ashley.

55. *Business Law*.—Continuation of B.A. 54 as outlined. Prerequisite, B.A. 54. Fee, \$50. Three credits; autumn, winter, spring. Ashley.

56. *Business Law*.—Continuation of B.A. 54 and B.A. 55, but may be taken with prerequisite of B.A. 54 only. Fee, \$50. Three credits; autumn, winter, spring. Ashley.

59. *Graphic and Tabular Analysis of Business Problems*.—Application of statistical method to business and economic problems. Design and execution of diagrams, maps and tables for effective presentation of statistical results. Analysis of collected material. Prerequisite, Math. 13 or its equivalent at option of instructor. Fee, \$50. Five credits; autumn. Eldred.

60. *Labor in Industry*.—An historical survey of labor problems arising out of changing industrial conditions. Methods used by industrial and social agencies in meeting these problems. Fee, \$50. Five credits; autumn, spring. McMahan.

61. *Social and Economic Standards of Living*.—Their origin and development; class standards and their influence on industry. A comparative study of budgets. Fee, \$.50. Three credits; winter. McMahan.
62. *Principles of Accounting*.—Functions of accounts; trial balances; balance sheets; profit and loss statements; books of original entry; ledgers; business forms and papers. Fee, \$.50. Five credits; autumn, winter, spring. Draper, Van de Walker and assistants.
63. *Principles of Accounting*.—Accounts peculiar to partnerships and corporations; correct classification of accounts; manufacturing and cost accounts; controlling accounts and subsidiary ledges; voucher systems. Prerequisite, B.A. 62. Fee, \$.50. Five credits; autumn, winter, spring. Draper, Van de Walker and assistants.
64. *Principles of Accounting*.—Accounting analysis and control; construction and interpretation of accounting standards and measures; analysis of financial statements from management standpoint; problems in report writing. Prerequisite, B.A. 63. Fee, \$.50. Five credits; autumn, winter, spring. Gregory, Van de Walker and assistants.
65. *Accounting Survey*.—An elementary survey of the construction and interpretation of accounts; a service course designed solely for students in other colleges who have only one quarter available for accounting; not open to Business Administration students. Fee, \$.50. Five credits; winter. Van de Walker.
67. *Paper Work in Shipping*.—Forms used in documentation, entering and clearing, and in making coastwise and foreign shipments, with the solution of a number of practice problems. Fee, \$.50. Five credits; autumn, winter, spring. Gould.
- 81-82. *Secretarial Training I and II*.—For students who have a thorough knowledge of shorthand and typewriting, covering the responsibilities placed on the secretary in handling correspondence, letter writing. Prerequisites, B.A. 16 and 19. Fee, \$.50. Five credits; autumn, winter. Hamack.
83. *Office Training and Practice*.—General principles of business conduct, ethics of the office, shipping, filing systems, and general handling of work to be assigned as nearly like actual office work as possible. Prerequisites, B.A. 81-82. Fee, \$.50. Three credits; spring. Hamack.
102. *Office Management*.—The office manager's problems of office administration. Attacks the problem of office control by the various activities and studies each in relation to all the others. Fee, \$.50. Five credits; winter. Draper.
103. *Money and Banking*.—Introductory course. Functions of money; standards of value; financial conditions, and principles of banking with special reference to the banking system of the United States. Fee, \$.50. Five credits; autumn, winter, spring. Preston.
104. *Economics of Transportation*.—Relation of transportation to industry and society; development and present status of American transportation systems; organization of the service; traffic associations; classification territories; routes; traffic agreements; rates and regulations. Fee, \$.50. Five credits; autumn, spring. Frame.
105. *Business Organization*.—Business corporations; associations, combinations; special reference to their functions, operation, advantages and disadvantages, relation to the anti-trust laws. Fee, \$.50. Five credits; autumn. Dakan.

106. *The Economics of Marketing and Advertising*.—Development of economic principles in marketing and advertising; market processes and systems; the middlemen and their functions. Fee, \$50. Five credits; autumn, spring. Burd.

107. *Traffic Management*.—A study of the traffic problems of American railroads, including classifications, the rate structures of the chief rate-making territories and such matters as import and export rates, re-shipment and diversion, demurrage and claims. Fee, \$50. Five credits; winter. Frame.

108. *Risk and Risk Bearing*.—The risk factor in its economic and social consequences; ways of meeting risk; the general broad outline of life, fire and other insurance. Fee, \$50. Five credits; winter. Smith.

109. *Advertising Principles and Practice*.—What advertising is and does; the advertising department; the advertising agency. Prerequisite, B.A. 106. Fee, \$50. Five credits; spring. Miller.

110. *Advanced Accounting*.—Valuation of balance sheet and revenue statement items; surplus and reserves; dividends; sinking funds; liquidation of partnerships and corporations; consolidated balance sheets; reports of trustees and receivers. Prerequisite, B.A. 64. Fee, \$50. Five credits; autumn, winter, spring. Draper.

111. *Advanced Accounting*.—Advanced partnership and corporation accounting; nature of profits; dividends; the legal status of same; statement of affairs; realization and liquidation accounts. Fee, \$50. Prerequisite, B.A. 110. Five credits; autumn, winter, spring. Gregory.

112. *Advanced Accounting*.—Bond and stock issue problems; premiums and discounts on securities; funds and reserves; mergers and consolidations; graphs and comparative statements; estate accounting. Prerequisite, B.A. 111. Fee, \$50. Five credits; autumn, winter, spring. Gregory.

113. *Ports and Terminals*.—Factors of a well coordinated port; modern terminal facilities; representative river, lake and sea ports. Fee, \$50. Three credits; spring. Gould.

*114. *Aerial Navigation*.

115. *Business Correspondence*.—Business letters; analysis of principles; development of judgment on points of business policy. Prerequisites, English 1 and junior standing. Fee, \$50. Five credits; autumn, winter, spring. Miller.

117-118. *Exporting and Importing*.—Principles and technique of exporting and importing; analysis of markets; preparation of documents and calculation of values of staples and of manufactured products and the financing of shipments. Prerequisite, B.A. 7. Fee, \$50. Five credits each; winter, spring. Skinner.

119. *Water Transportation*.—Economics of shipping with particular reference to organization and management; ship building and operating costs; rate practice and control, pools, agreements, conferences; ocean routes; shipping subsidies, etc. Fee, \$50. Five credits; winter. Frame.

120. *Industrial Relations*.—Analysis of modern labor conditions; changing relationships of labor, management, investor group, and the public. Appraisal of methods used to enlarge common interest and diminish conflict between groups. Fee, \$50. Three credits; autumn. Foisie.

121. *Corporation Finance*.—Financial problems connected with promotion of corporations, underwriting and sale of securities, management, expansion and reorganization of unsuccessful corporations. Prerequisites, B.A. 62, 103. Fee, \$.50. Five credits; winter. Dakan.

122. *Principles of Investment*.—A study of the underlying principles of investment credit; and a description of the origin and purpose of the various credit instruments used; the selection of sound investments; the investment policy of individuals and institutions; care of investments; investment market and its relation to the money market. Prerequisite, B.A. 103. Fee, \$.50. Five credits; spring. Dakan.

124. *Public Finance*.—The growth of public expenditures in modern times, the sources of public revenue other than taxation, and the general principles underlying public credit; government ownership of industries, including public utilities, financial aspects of the public land policy, national subsidies to state projects, special assessments, budgetary procedure, and a brief study of some outstanding episodes in the financial history of the United States. Fee, \$.50. Five credits; autumn. Eldred.

125. *Bank Administration*.—Methods and machinery of bank operations. Internal organization of the bank; relation of the different functions; accounting methods; finding costs for the bank; problems of bank administration. Prerequisites, B.A. 63, 103. Fee, \$.50. Five credits; winter. Dakan.

126. *Commercial Credit*.—Extension of credit; the credit department; sources of information; credit analysis; credit insurance; practical problems. Prerequisite, B.A. 64, 103. Fee, \$.50. Five credits; autumn. Dakan.

127. *Foreign Exchange and International Banking*.—Theory of international exchange; rates of exchange; financing imports and exports; specie movements; foreign money market factors; foreign banking by American institutions; financing foreign trade; present status of foreign exchange. Prerequisite, B.A. 103. Fee, \$.50. Five credits; autumn. Preston.

128. *Human Waste in Industry*.—Unemployment; the labor surplus; regularization of employment; personal injuries and accident prevention; unrest and instability. Measurement of wastage; methods of elimination. Fee, \$.50. Three credits; spring. Foisie.

129. *Taxation*.—The general principles of taxation followed by a somewhat detailed study of American tax methods, with chief emphasis upon the revenue problems of state and local governments. Consideration will be given to the aggregate burden of taxation in relation to national wealth and income, the respective merits of taxation and borrowing, constitutional limitations, administrative control of assessment methods, the single tax, etc. Fee, \$.50. Five credits; winter. Eldred.

130. *Industrial Analysis and Control*.—Using cost statistics and reports as material, will deal with the development of policies for greater efficiency in management. Systems of accounting statistics with emphasis on manufacturing, selling, general administration and financial expenses with their significant ratios considered. Fee, \$.50. Five credits; autumn and winter. McIntyre.

131. *Economics of Public Utilities*.—A development of the fundamental economic theory of public utilities. Their economic basis, nature of competition, the price bargain, taxation, control over service, government enterprise and problems created by joint, differential and overhead costs. Fee, \$.50. Five credits; autumn. Leib.

132. *Management of Public Utilities*.—Administrative problems of loca-

tion, rate setting and schedules, off peak power, contract rates, prices as affected by volume of sales, public relations, problems of production and interconnection with special attention to Pacific slope conditions. Fee, \$50. Five credits; winter. Leib.

133. *Control of Public Utilities.*—Growth and activities of regulatory bodies and commissions. Relation of restriction to public welfare, competition and monopoly under modern business conditions, municipal ownership with its incidental problems. Fee, \$50. Five credits; spring. Leib.

134. *Marketing Problems.*—Application of principles to problems in wholesale and retail distribution, price policies and sales. An advanced course in marketing. Prerequisite, B.A. 106. Fee, \$50. Five credits; autumn. Burd.

135. *Marketing of Northwest Products.*—Methods of marketing wheat, apples, lumber, poultry and other products of the Pacific Northwest; comparative studies; physical facilities. Organized field trips. Prerequisite, B.A. 106. Fee, \$50. Five credits; autumn. Miller.

136. *Market Analysis.*—Product analysis; price policies and sales strategy; sales promotion methods. Prerequisite, B.A. 106. Fee, \$50. Five credits; winter. Burd.

137. *Advertising Campaigns.*—Advertising appeals and their presentation; advertising media and their selection; appropriations; campaign plans. Prerequisite, B.A. 106. Fee, \$50. Five credits; spring. Burd.

138. *Sales Management.*—Sales plans; establishing sales policies; constructing sales machinery; supervising sales forces. Prerequisite, B.A. 106. Fee, \$50. Five credits; winter. Burd.

*139. *Social Insurance.*

140. *The Cooperative Movement.*—Examination of the more successful cooperative ventures in the United States; recent tendencies; cooperative buying groups; cooperative advertising. Prerequisite, B.A. 106. Fee, \$50. Five credits; winter. Miller.

141. *Fire Insurance.*—Theory and practice of fire insurance; study of the clauses in standard fire policies; apportionment of losses; rate making; fire prevention. Prerequisite, B.A. 108. Fee, \$50. Five credits; autumn. Smith.

142. *Life Insurance.*—Functions of life insurance; premiums; reserves; kind of companies and policies; dividends; lapses. Disability, group and industrial insurance. State regulations of life insurance business. Prerequisite, B.A. 108. Fee, \$50. Five credits; spring. Smith.

143. *Trade of the Far and Near East.*—Economic conditions of China, Japan, Siberia, the Philippines, French Indo-China, Siam, India, the Malay Peninsula, the Dutch East Indies, Australia, Persia, Mesopotamia, Syria, Arabia, Turkey and the Balkan States, and trade relations of these regions with the rest of the world, especially the United States. Prerequisite, B.A. 7. Fee, \$50. Five credits; winter. Skinner.

144. *Trade of Europe.*—Economic conditions of Europe (and Africa), and the trade relations of these sections with the rest of the world, especially the United States. Prerequisite, B.A. 7. Fee, \$50. Five credits; spring. Skinner.

145. *Trade of the Americas.*—Economic conditions of Canada, Mexico, and Central and South America, and the trade relations of these regions

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with the rest of the world, especially the United States. Prerequisite, B.A. 7. Fee, \$.50. Five credits; autumn. Skinner.

146. *Retail Sales Problems.*—Fundamental principles underlying retail selling. Problems of constructive merchandising, display advertising, personnel, and the consumer from the point of view of the sales manager and the selling force. Prerequisite, B.A. 106. Fee, \$.50. Five credits; autumn. Grant.

147. *Retail Buying Problems.*—The scientific and ethical principles underlying retail buying. Problems of the buyer in relation to customer demand, market, stock control, technique of buying, sales force, sales promotion, net profit. Prerequisite, B.A. 106. Fee, \$.50. Five credits; winter. Grant.

148. *Retail Store Organization Problems.*—Fundamental principles underlying departmentalization; financial, personnel, merchandising, publicity and administrative organization. Prerequisite, B.A. 106. Fee, \$.50. Five credits; spring. Grant.

*149. *Marine Insurance.*

150. *Railroad Finance and Administration.*—A study of the methods by which railroads are financed and administered; comparison with foreign systems; analysis of annual reports of leading systems; survey of railroad legislation. Fee, \$.50. Five credits; spring. Frame.

151. *Rail and Marine Rates.*—Principles of rate making, and interpretation of federal and state statutes affecting rail and water rates; influence of competitive forces; traffic geography; classifications; rate adjustments; survey of decisions of commissions and courts, interstate and local rate problems. Prerequisite, B.A. 104. Fee, \$.50. Five credits; autumn. Frame.

152. *Shipping and Consular Regulations.*—Navigation laws relating to prevention of collisions at sea; inspection of vessels; employment of seamen; carrying of cargo and passengers; towage and pilotage; wharfage and moorage; liability of vessels and owners; duties of consular officials; administration of navigation laws. Fee, \$.50. Three credits; spring. Gould.

154. *Cost Accounting I.*—Organization of cost department; relation of cost to other departments; production factors; cost finding methods; material and labor records; preparation of operating statements. Prerequisite, B.A. 112. Fee, \$.50. Five credits; winter. McConahey.

155. *Cost Accounting II.*—Production and service departments; distribution of manufacturing expense; preparation of cost reports in planning and controlling production; standard costs, etc. Prerequisite, B.A. 112. Fee, \$.50. Five credits; spring. McConahey.

156. *Auditing.*—Auditing procedure; balance sheet audits; analysis of asset and liability values; profit and loss statement audits; analysis of income and expense; certifications and reports; classifications of audits and investigations. Prerequisite, B.A. 112. Fee, \$.50. Five credits; autumn. McConahey.

157. *Income Tax Accounting.*—Government decisions affecting the practical determination of taxable income; persons, corporations, partnerships subject to tax; exemption and exception; deductions and allowances; preparation and analysis of returns. Prerequisite, B.A. 112. Fee, \$.50. Five credits; winter. McConahey.

158. *Managerial Accounting.*—Organization and duties of the account-

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ing department in business from the standpoint of the management; the vital connection between management and accounts; how accounts should be handled to produce reports and statistics of the utmost value to the management. Prerequisite, B.A. 112. Fee, \$.50. Five credits; autumn. McConahey.

159. *Advanced Money and Banking.*—Selected topics in monetary science and business finance; value of money; financial effects of the great war; the Federal Reserve system; agricultural credit; business cycles. Prerequisite, B.A. 103. Fee, \$.50. Five credits; spring. Preston.

160. *Advanced Economics.*—A study of economic thought centering about the Neo-classical theories of value and distribution and the validity of this thought under present conditions. Prerequisite, 120 credits. Fee, \$.50. Five credits; autumn, winter, spring. Coon.

161. *Labor Economics.*—The labor factor in the development of economic thought. A critical study of current theories. Fee, \$.50. Five credits; winter. McMahan.

162. *European Labor Problems.*—Labor movements of modern Europe; economic and political backgrounds, in relation to types of labor organizations. Fee, \$.50. Five credits; autumn. McMahan.

163. *Industrial Management.*—Problems of promotion and location of industrial plants. Selection of site, layout of processes, and control of material. Types of buildings, lighting, safety appliances, economic and psychological effect of scientific management. Fee, \$.50. Five credits; autumn. Leib.

164. *Land Economics and Real Estate.*—Economic principles underlying the utilization of land and other natural resources, with consideration of the public policies appropriate thereto. Problems of land reclamation and settlement, systems of tenure, valuation, credit, taxation and conservation; brief study of economic forces influencing city growth and urban land values as a foundation to the intelligent understanding of the real estate business. Fee, \$.50. Five credits; spring. Eldred.

165. *Labor Legislation.*—Public control of industrial maladjustment through labor laws. The law and practice of employment relations. Growth of quasi-judicial commissions administering labor laws. Fee, \$.50. Three credits; winter. Foisie.

166. *Women in Industry.*—The evolution of women's work; relative importance of women in industry; social reaction in labor legislation. Fee, \$.50. Two credits; winter. McMahan.

167. *Employment Management.*—Labor surveys, employment forms, job analysis and job specifications, time study, foreman training, wage determination, labor turnover, employees' associations and effective correlation of labor with manager and plant. Fee, \$.50. Five credits; winter. Leib.

168. *Development of Economic Thought.*—A study of the contributions of the classical and Neo-classical economists and their contemporary critics. Primary sources will be used and attention will be given to the industrial, social, and political background of economic thought. Prerequisite, 135 credits. Fee, \$.50. Five credits; autumn, spring. Coon.

*169. *Principles of Real Estate.*

170. *Casualty Insurance.*—Study of real estate transactions, interests, liens, sales, transfers, mortgages, valuations, title, credit, fidelity, automobile,

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tornado, and miscellaneous forms of property and liability insurance. Pre-requisite, B.A. 108. Fee, \$.50. Five credits; winter. Smith.

171. *Modern Trends and Criticism*.—A study of present day criticisms of "orthodox theory" and a consideration of modern tendencies and controversies in economic thought. Prerequisite, 135 credits. Fee, \$.50. Five credits; winter. Coon.

172. *Executive Technique*.—Internal organization of the business, departmental organization and coordination; various systems of management; use of reports and charts and consideration of problems presented by local industries. Fee, \$.50. Five credits; spring. Leib.

173. *International Commercial Policies*.—Principles and practices in the economic and commercial relations of the nations of the world, considered with particular reference to American foreign trade. Fee, \$.50. Five credits; autumn. Skinner.

175. *The Business Cycle*.—A brief study of the evidences of regularity in the characteristic fluctuations of business activity, with some consideration of the normal effects of the business cycle upon economic life and economic theory. Prerequisite, B.A. 59. Fee, \$.50. Five credits; winter. Eldred.

176. *Investment Analysis*.—An analytical study of typical industrial, public utility and railroad securities. Analysis of financial operations, revenue and expense reports and their relation to investment values. The principles of valuation and rate structure of public utilities. Problems. Fee, \$.50. Prerequisites, B.A. 64, 121, and 122. Five credits; spring. Dakan.

177. *Business Forecasting*.—Application of the methods of economic statistics to the problem of forecasting business conditions; analysis of the various business forecasting services; reports upon assigned problems. Prerequisite, B.A. 59. Fee, \$.50. Five credits; spring. Eldred.

181. *Economics of Consumption*.—Historical development of human wants in relation to the economic laws of consumption; influence on the production and distribution of wealth. Attempts to control consumption through private and governmental agencies. Fee, \$.50. Five credits; spring. McMahon.

184. *Auditing Technique*.—Prerequisite, B.A. 112. Fee, \$.50. Five credits; autumn, winter, spring. Robertson.

185. *C.P.A. Problems*.—Selected problems covering various accounting principles. Work taken from American Institute and state C.P.A. examinations. Emphasis placed on speed, accuracy and forms of presentation. Prerequisite, B.A. 112. Fee, \$.50. Five credits; spring. McConahey.

188 ABC. *Apprenticeship in Merchandising*.—Students are placed full time in autumn and spring quarters in actual business. Three-six credits; autumn, winter, spring. Grant.

189. *Bank Credit Administration*.—A study of the administration of bank credit based on actual problems selected from portfolio of Pacific Northwest banks. Fee, \$.50. Three credits; winter. Truax.

191 ABC. *Research in Accounting*.—Two-five credits; autumn, winter, spring. Davis.

195 AC. *Research in Foreign Trade and Transportation*.—Two-five credits; autumn, spring. Skinner, Frame.

196 ABC. *Research in Management*.—Two-five credits; autumn, winter, spring. Leib, Gregory.

197 BC. *Research in Finance*.—197B, attention given to international financial reconstruction. 197C, attention to monetary and price theory. Two-five credits; winter, spring. Preston.

198 BC. *Research in Marketing and Advertising*.—Two-five credits; winter, spring. Burd, Miller.

COURSES FOR GRADUATES ONLY

201 ABC. *Graduate Seminar*.—Three credits; autumn, winter, spring. Cox.

205 ABC. *Seminar in Value and Distribution*.—Prerequisite, B.A. 160 or equivalent. Three credits; autumn, winter, spring. Coon.

207 ABC. *Seminar in Labor*.—Discussion of case material; individual conferences and supervision in field of research. Opportunities for investigation of labor problems in our basic Northwest industries. Three credits; autumn, winter, spring. Foisie.

Teachers' Courses in Business Administration

Educ. 160D. *Commercial Teachers' Course*.—Five credits; (Two credits only count in education); spring. Draper.

Educ. 160DD. *Teachers' Course in Shorthand and Typewriting*.—Five credits (two credits only count in education); spring. Hamack.

EDUCATION

Education Hall

Professors Uhl, Bolton, Randolph; Associate Professors Jessup, Williams; Assistant Professors Dvorak, Draper, Bishop; Associates Corbally, Foster and Assistants.

Note: All special teachers' courses are listed and numbered as education courses.

Courses 101 or 102 are open to sophomores who have received 65 credits in college courses. One is prerequisite to all other courses in education for all students except college graduates and students entering from normal schools. Of the remaining courses in this group (1), 119 and 140 should be taken during the junior year. These courses are prerequisite to 145 which should be planned for the autumn or winter terms of the senior year. Placements for the spring term are limited. Courses 101 or 102, 119, 140 and 145 and one teachers' course in a special subject, numbered 160, are regularly required for the five-year normal diploma. Normal school students are not permitted to take courses 101 or 102, 140 or 145. They are required to take 119, 150, 152, and from group (2) five credits in courses numbered above 150.

As a result of a petition by the students an education library fee of 50 cents is charged each student for each course in education, except in courses 150, 160D, 160DD, 160Z, 196-197-198, 285-286-287. According to the agreement, students will not be required to purchase more than one text book in any one course.

I. ELEMENTARY COURSES

101. *Introduction to the Study of Education*.—General course covering the field of education. Open to sophomores who have earned 65 credits.

Course 101 or 102 or approved equivalent is prerequisite to all other courses in education, except for normal school and college graduates or others who have had approved equivalent elsewhere. Five credits; autumn, winter, spring, summer. Bolton.

102. *Elementary Educational Psychology*.—An elementary study of the psychology of pupils to determine the types of materials for the curriculum, the most advantageous periods for learning, and the laws of economic learning. Special emphasis upon adaptation to native endowment and individual differences. Open to sophomores who have earned 65 credits. Course 101, or 102, or approved equivalent, is prerequisite to all other courses in education, except for normal school and college graduates or others who have had approved equivalents elsewhere. Five credits; autumn, spring, summer. Bolton.

119. *Secondary Education: Problems of the High School Teacher*.—Problems of the high school. The history of secondary education in the United States is taken up as a background for problems of articulation, guidance, individual differences, etc. Present day characteristics and objectives of the high school are considered and recent tendencies in curriculum construction noted. Prerequisite, Educ. 101 or 102 or approved equivalent. Three credits; autumn, winter, spring, summer. Draper.

140. *Psychology of Teaching Methods*.—An attempt to discover the psychological foundation of methods. The application of these to concrete illustrations of teaching. Especially applied to high school instruction. Should be taken during the junior year. Prerequisites, Educ. 101, or 102, 119 or approved equivalent. Students who plan to take 140 and 150 should take 150 first. Five credits; autumn, winter, spring.

Williams, Hughes, and _____

145. *Practice Teaching*.—One lecture a week, conferences with the instructor, assigned readings, and one period each day devoted to observation and practice teaching under supervision in the Seattle city schools. Prerequisites, Educ. 101, or 102, 119, 140 or approved equivalent. Five credits. (For Phys. Educ. major, one to five credits any quarter. Hours; select either M.W. 1-3 or T.Th. 10-12). Application for practice teaching placement must be made before June of the junior year and plans should be made to take the course either autumn or winter terms of the senior year. Only a limited number can be accommodated in the spring term. Application blanks are available at the office of the dean of the School of Education. Assignments to the city schools are given out the opening day of each quarter. Autumn, winter, spring. Hughes.

*146. *Practice Teaching II*.

Courses 101 or 102 and 140 are prerequisite, except as stated above, to Courses 160A to 160Z. One of the "teachers' courses" is required for the normal diploma.

160A. *Teachers' Course in Botany*.—Discussion of texts, subject matter and methods of presenting the subject. Prerequisite, two years of botany. Two credits; autumn. Frye.

160B. *Teachers' Course in Chemistry, Laboratory Methods of Instruction*.—No lab. fee. Prerequisite, at least 20 credits of college chemistry of average B grade. Two credits; autumn, winter, spring.

160C. *Teachers' Course in Latin*.—Methods and problems in the teaching of high school Latin. Prerequisites, Latin 100 or 101 or 102. Except by special arrangement this course must be taken in combination with Latin 107. Two credits; autumn. Stone.

*Not offered 1928-1929.

160D. *Commercial Teachers' Course.*—Typical business courses are examined and made the basis for discussions on needs of local business conditions. Study of the content of high school commercial courses and of texts. Prerequisites, twenty-five hours of the thirty-five required for a major in commercial teaching, including fifteen hours in accounting and B.A. 16, 19. Fee, \$1.50. Five credits; spring. Two hours only count as education credits; three hours as business administration. Draper.

160DD. *Teachers' Course in Shorthand and Typewriting.*—To prepare students for teaching shorthand and typewriting. Correlation of this work with actual work in business houses. Prerequisites, twenty-five hours of the thirty-five required for a major in commercial teaching, including B.A. 16, 19, 81 and 82. Fee, \$1.50. Five credits; spring. Two hours only count as education credit, three hours as business administration. Hamack.

160E. *Teachers' Course in English.*—Methods and problems in the teaching of English in the high school. This course or 160EC and 160EL are required of majors in English for a normal diploma. Students failing in an examination on English composition given at the beginning of this course will be required to earn credit for 160EC before entering 160E. Two credits; autumn, winter, spring. Sperlin.

160EC. *Composition in the High School.*—The materials and methods of teaching composition to secondary school students. Two credits; autumn, winter. Sperlin.

160EL. *English Literature in the High School.*—A study of the classics accepted for entrance to the University from the point of view of their interpretation and of their presentation to high school students. Two credits; spring. Sperlin.

160F. *Human Geography in the Public Schools.*—A survey of the present day content of the science of geography, together with the methods of presenting it in grade school and high school teaching; regional, industrial and commodity geography, and geography's relation to the social sciences are considered. Two credits; spring. Renner.

160G. *Teachers' Course in German.*—Aims and methods of teaching German; preparation of the teacher; lesson plans; tests; courses of study for high schools: textbooks and aids in teaching; realia in German; observation in elementary classes. Prerequisite, Ger. 110; or consent of instructor. Two credits; spring. Meisnest.

160H. *Methods of History Teaching.*—With special reference to the work of the high school. Required of majors in history who expect to teach. Prerequisite, History 160. Two credits; winter. McMahon.

160I, 160J. *Teachers' Course in Home Economics.*—Curricula, methods of teaching and equipment. Prerequisite, H.E. 5, 116, 112, 113, 143, 144, 145; Arch. 1, 2; Physics 89-90; Bact. 101. Three recitations. Three credits each quarter; only two credits counted toward the normal diploma, the other three credits are counted in home economics. Autumn, winter. Raitt, Denny.

160K. *Teachers' Course in News Writing.*—Methods and lesson plans for a news writing class in high school. Prerequisites, Jour. 51, 101, 115, 120. Two credits; spring.

160L. *Teachers' Course in Dramatic Art.*—Two credits; spring.

160M. *Teaching of Mathematics.*—Problems peculiar to the teaching of high school mathematics. Nature and value of mathematics with their pedagogic bearings. Critical review of courses and methods of teaching. Required of mathematics majors who are candidates for the normal diploma.

Prerequisite, Math. 109. Three credits; (Two credits in education, one credit elective); spring. Jerbert.

160N. *Teachers' Course in Music Education*.—A study of principles and methods in teaching music in the public schools. Prerequisite, Music 113, 114. Two credits; spring. Newenham.

160O. *Civics in Secondary Schools*.—Attitude of approach, arrangement of material, methods of presentation; development of an appreciation of the reality of our political system; use of material, textbooks, current articles, legislative bills, sample ballots, observation of local government agencies. Two credits; spring. Hulse.

160P. *Methods of Teaching Art*.—Type problems, courses of study, methods and materials. Prerequisite, P.S.D. 5-6-7, 9-10-11, 53, 54, 55, 56, 105. Two credits; autumn. Rhodes.

160R. *Teachers' Course in Physical Education for Women*.—A study of the sociological, biological, and educational foundations of physical education with reference to objectives and selection of activities, programs, and curriculum in physical education. Prerequisites, P.E. 101-102, 103-104, 105-106, 111-112-113, fifteen credits of which must be in residence. Two credits; autumn. Gross.

160S. *Teachers' Course in Physical Education for Men*.—The elementary and secondary school program. Fundamental principles underlying curricula construction; special aims and objectives; standards for evaluating practice in the field; correlation of physical education with the various other school agencies that affect the physical, moral and social welfare of children. Prerequisite, Phys. Ed. 145. Two credits; winter. Foster.

160T. *Teachers' Course in French*.—Aims and methods best suited to attain them. Prerequisites, French 41, 101, 102, 103, 158, and 159. Two credits; spring. Frein.

160U. *Teachers' Course in Spanish*.—Methods of teaching Spanish. Practice in the classroom. Prerequisite, Span. 101, 102, 103, 159. Two credits; spring. Ober.

160X. *Teachers' Course in Piano Playing*.—Survey of teaching material, with supervised practice. Prerequisite, Music 165, 166. Two credits; spring. Risegari.

Piano Teaching Methods.—See Music 165, 166.

160Z. *Teachers' Course in Zoology*.—For students preparing to teach zoology in high schools. Lab. fee, \$1.50. Prerequisite, 20 hours in zoology. Two credits; winter. Guberlet.

II. ADVANCED UNDERGRADUATES AND GRADUATES

To be admitted to courses in this group (II) students must have earned at least 10 credits in education, including courses 101 or 102 and 140, or the equivalent. Normal school graduates are qualified to enter.

150. *Introduction to Educational Measurements*.—History and development of the use of tests and scales in education. Group intelligence tests, elementary statistical methods as applied to the handling of educational data, educational achievement or subject tests and scales. Required of all candidates for the master's degree with a major in education. Lab. fee, \$3. Three credits; autumn, winter, spring, summer. Dvorak.

151. *Educational Sociology*.—Representative aspects of the problem of making the school form a whole with the rest of life; a systematic view of the larger social factors and relationships underlying and surrounding

the school as an institution. The main emphasis falls upon generalization. Pivotal topics are: The social inheritance; political aspects of public education; the national mosaics of interrelated "solutions" and the ideal of progress; democratic assumptions and transitional practices; informal versus formal education; cooperation of selective factors in American education; localism; nationalism and cosmopolitanism in educational thought,—leading up finally to current problems, such as moral and character education and curriculum materials. Three credits; autumn winter, spring and summer. Randolph.

152. *Social Surveys of School Studies and Activities.*—The course summarizes the results to date of the several sociological approaches to the selection of socially defensible material for courses of study. The basic hypotheses underlying inductive studies of school materials are discussed and illustrated by concrete cases. The students make one serious effort at application in the field of their special curriculum interest. Two credits; autumn, winter, spring and summer. Randolph.

154. *Junior High School.*—A survey of the historical development of this new movement in American education as a basis for the discussion of its important features, functions and problems. Guidance, methods, curricula, supervision and extra class activities will be emphasized. Lectures, personal investigations, surveys and reports. The course is organized to meet the needs of undergraduates and inexperienced teachers. Prerequisite, Educ. 119. Two credits; autumn. Draper.

*155. *Recent Developments in Child Study.*

*156. *High School Organization.*

157. *Extra-Class and Intramural Activities.*—Historical development of these activities, values and objectives, classification, student participation, records and administrative problems. Lectures, personal investigations, surveys and class reports. Prerequisite, Educ. 119. Two credits; spring. Draper.

159. *The High School Principal.*—A study of the high school principal as supervisor, administrator and director of extra class and intramural activities. Problems based upon the organization of the school, the teaching staff, the high school population, curriculum making and extra class and intramural activities will be considered. Registration in this course is limited to those who have had experience as elementary principals, high school principals, vice-principals or who have served at least one year as head of a department, except in special cases in which the instructor's permission has been secured. Two credits; spring. Draper.

161. *History of Education.*—Social interpretation of the historic beginning of education, contributions of the Greeks and Romans, development of Christianity, medievalism, and the beginnings of modern education. Development of educational practices since the Renaissance. Five credits; winter.

163. *History of American Education.*—Lectures, readings and investigations, focusing on the development of practices, theory, and instrumentalities rather than on the development of administrative organization. Five credits; autumn. Randolph.

*164. *The History of Secondary Education.*

165. *Problem Children.*—Subnormal, superior, backward, eccentric and delinquent children studied from the point of view of the teacher. Five credits; winter. Dvorak.

*Not offered in 1928-1929.

*170. *Educational Psychology.*

*172. *Psychology of Elementary School Subjects.*

*173. *Psychology of High School Subjects.*

*174. *Psychological Problems of Vocational Education.*

176. *Educational Guidance.*—Methods and literature of personal, vocational, and educational guidance in the public schools, advisory systems, child accounting, classification, promotional plans, predictions, placement. For advanced students and teachers only. Five credits; winter. Jessup.

179. *The Health Education Movement.*—Its place in the elementary and secondary school program and in the community at large. The part of the school nurse, the physical education, home economics and classroom teachers in this work. Open to students majoring in any subject, who expect to teach in elementary or high schools. Three credits; spring. Soule, Rowntree.

181. *Educational Problems of Adolescence.*—Physical, intellectual, emotional, moral and social characteristics of adolescents, and the educative activities suited to the period of secondary school education. Five credits; winter. Bolton.

183. *Philosophy of Education.*—The philosophies responsible for the American school system. The fundamental philosophy of education on which the aims and objectives of a democratic society may be developed. Education in relation to other factors in twentieth century life. Mobilization of thought, social progress, socializing agencies, dynamic and static societies, aims of education, problems of methods, curriculum building, etc. Five credits; spring. Randolph.

186. *Elementary School Curriculum.*—The construction and organization of the elementary school curriculum. Subjects, time schedules, principles, objectives, activities, classification, adaptation, projects, platoon plan, etc. Five credits; winter. Jessup.

190. *The Elementary School Principal.*—How principals usually spend their time; actual and ideal ways of organizing and conducting the principal's work; the new concept of the official qualifications necessary; professional leadership; supervision of instructional community leadership; management of office routine; the selection of teachers; measuring results; child accounting; improvement of teachers; choice of textbooks; course of study, discipline and organization. Three credits; spring. Jessup.

191. *School Administration, State and County.*—An analysis of modern practice and historical background of the organization, supervision and financial support of public education. Especially planned for superintendents and supervisors, and those interested in school administration. Five credits; autumn. Jessup.

192. *School Administration: City.*—Organization, supervision and financial support of city and town schools. For the superintendent, principal or supervisor who wishes to become familiar with modern problems and practice in school administration. Five credits; winter. Jessup.

195. *School Supervision.*—Analysis of the problems and technique of the improvement of school work through the in-service education of teachers. Five credits; spring. Jessup.

*196-197-198. *Intelligence and Its Measurement.*

*Not offered 1928-1929.

III. COURSES FOR GRADUATES ONLY

To be admitted to courses in this group (III) students must be college graduates, and must have earned at least 18 credits or the equivalent in education. The following courses may be counted toward the masters' and doctors' degrees.

201-202-203. *Problems in Modern Methods.*—For advanced students. A critical evaluation of methods in examinations, grading, supervised study, the project, socialized recitation, problem method, assignment, laboratory procedure, etc. A seminar. Two credits each quarter; autumn, winter, spring. At least two quarters must be taken to receive credit. Williams.

206. *Educational Statistics.*—A thorough course of graduate nature in the statistical treatment and interpretation of educational data. Designed to enable the student to carry on research work involving the numerous quantitative measures for thesis or other advanced work. Required of all graduate students working for the master's and doctor of philosophy degree in education and normally should be one of the first courses completed for these degrees. Five credits; autumn and summer. Dvorak.

210. *Methods of Educational Research.*—Practices and methods in carrying out and writing up research problems. One credit; autumn and summer. Dvorak.

212. *Comparative Education.*—Modern education in foreign countries, especially in Germany, France, England, Norway, Sweden and Canada. Relation between social ideals of nations and their educational systems. Post-war reorganization. Influence upon educational theories and practices in America. Five credits; autumn. Jessup.

215. *Junior College.*—A study of the facts and conditions which have led to the development of the junior college movement with an investigation of the purposes, objectives, curricula, economic and educational advantages of the junior college. Three credits; spring. Dvorak.

222, 223. *Seminar in Social Surveys of School Materials.*—Open only to graduates and limited to twenty students. The course in the winter quarter will deal with the social studies and English. In the spring the course will deal with the school subjects not covered in the winter. In each course a brief resume of the hypotheses underlying critical revision of school materials and evaluation of the results to date will lead to the isolation of unsettled problems of content and will be followed by research upon some phase of such unsettled problem. Students may elect each course separately or may take both courses, 223 not being a repetition of 222. Prerequisite, Educ. 152 or its equivalent. Two credits each quarter; winter, spring. Randolph.

*232-233. *Advanced Educational Psychology.*

235. *Survey of Recent Educational Literature.*—For graduate students and for teachers and administrators in active service (1) who desire to investigate current educational problems, and (2) who desire to trace old educational interests through recent educational writings. Readings, discussions, reports based on reviews of new books and surveys of present unsolved and controversial problems in magazine literature. Three credits; winter and summer. Dvorak.

*241-242-243. *Educational Diagnosis.*

251-252, 253. *Seminar in Psychology of High School Subjects.*—Consideration of experimental studies which form the basis of learning and teaching problems in the high school curriculum; English, mathematics,

*Not offered 1928-1929.

science, history and foreign languages. Five credits each quarter; autumn, winter, spring. At least two quarters must be taken to receive credit.

Williams.

261-262. *Seminar in Educational Sociology*.—Introductory summary of the tendencies and recent contributions of educational sociology, followed by practical work upon selected problems. Five credits a quarter; autumn and winter.

Randolph.

*271-272-273. *Seminar in Educational Surveys*.

275-276-277. *Seminar in Secondary Education*.—A critical study of the curricula adjustments of the elementary school and the junior college or university with secondary education. Problems will be developed out of the programs of study of the junior high school and the senior high school. This course is for advanced graduate students who wish to do intensive investigation in curricula revision. Two credits a quarter; autumn, winter and spring.

Draper.

*281. *Seminar in Character Education*.

*285-286-287. *Seminar in Educational Measurements*.

291. *Seminar in School Legislation*.—A comparative study of school legislation in the various states. Intensive investigation of special topics relating to needed legislation in Washington and other states. Five credits; autumn.

Jessup.

293. *Seminar in School Finance*.—An intensive study of various methods of raising and distributing school revenues. Special consideration to needs in Washington. Five credits; spring.

Jessup.

298, 299, 300. *Individual Research or Thesis Work*.—Original investigation of special problems. Results are usually reported in one of the seminars and when especially meritorious may be published. Special problems directed by members of the department. Credits to be arranged; autumn, winter, spring.

Staff.

ELECTRICAL ENGINEERING

Engineering Hall

Professors Magnusson, Kirsten, Loew; Assistant Professors Shuck, Hoard, G. S. Smith; Instructors Eastman, Lindblom, Bergstrom, Weir, Applegate.

101. *Direct Currents*.—Short course in continuous current machinery, for non-electrical students, to be taken in connection with E.E. 102. Prerequisite, Phys. 98. Four credits; autumn, winter, spring.

Weir, Bergstrom.

102. *Direct Currents Laboratory*.—Continuous current machinery, for non-electrical students. To be taken with E.E. 101. Prerequisite, Phys. 98. Lab. fee, \$4. Two credits; autumn, winter, spring.

Weir, Bergstrom.

105. *Electric Wiring and Illumination*.—A short course for architects. Two credits; autumn.

Shuck.

109. *Direct Currents*.—Theory of electric and magnetic circuits; construction, operation and characteristics of direct current generators and motors. To be taken with E.E. 110. Prerequisite, Phys. 98. Four credits; autumn, winter, spring.

Lindblom, Hoard.

*Not offered 1928-1929.

110. *Direct Currents Laboratory*.—Direct current machinery. Prerequisite, Phys. 98. Lab. fee, \$4. To be taken in connection with E.E. 109. Two credits; autumn, winter, spring. Weir, Bergstrom, Smith.

111. *Direct Currents*.—Continuation of E.E. 109 in direct current machinery. Storage batteries. Regulation and control of direct current systems. To be taken in connection with E.E. 112. Prerequisite, E.E. 109. Four credits; autumn, winter, spring. Smith.

112. *Direct Currents Laboratory*.—Experimental work on direct current dynamo machinery and on storage batteries. To be taken with E.E. 111. Prerequisite, E.E. 110. Lab. fee, \$4. Four credits; autumn, winter, spring. Smith, Hoard.

**15. *Elementary Direct Currents*.—(Extension Night Class.) Laws of the electric and magnetic circuits with application to direct current machinery without the aid of advanced mathematics. For electricians having at least two years of practical experience with electrical machinery. Shuck.

**20. *Elementary Alternating Currents*.—(Extension Night Class). Alternating current theory with experimental work on alternating current machinery. Prerequisite E.E. 15. Shuck.

121. *Alternating Currents*.—Alternating currents, for non-electrical students. To be taken with E.E. 122. Prerequisite, E.E. 101. Four credits; autumn, winter, spring. Shuck, Weir.

122. *Alternating Currents Laboratory*.—Experimental work on alternating current machinery. To be taken with E.E. 121. Prerequisite, E.E. 102. Lab. fee, \$4. Two credits; autumn, winter, spring. Shuck, Weir

131. *Electric Communications*.—Wire and radio telephone and telegraph. Theory, construction, and operation of electric communication systems. Central telephone station practice. Prerequisite, Physics 98. Four credits; autumn. Eastman.

132. *Telephone Transmission*.—Theory of telephone transmission; reflection phenomena; measurements of line constants; design of telephone equipment. Prerequisite, E.E. 161. Lab. fee, \$2. Three credits, winter. Eastman.

**141. *Illumination*.—Electric lamps; commercial photometry; adaptation of electric lighting to commercial requirements. Junior or senior elective. Prerequisites, E.E. 109, 110. Lab. fee, \$2. Four credits; spring. Shuck.

152. *Electrical Machine Design*.—Complete design of one direct current generator or motor. Prerequisites, E.E. 111, 112. Three credits; autumn, winter, spring. Lindblom.

**154. *Design of Electrical Apparatus*.—Switchboards, transformers, alternators, alternating current motors, etc. Prerequisite, E.E. 152. Four credits. Loew.

161. *Alternating Currents*.—Theory of singlephase and polyphase system; energy storage in magnetic and dielectric fields; vector diagrams and the symbolic methods of analysis; power factor and power measurements; hysteresis and eddy currents; theory of the transformer, singlephase and polyphase induction motors. To be taken with E.E. 162. Prerequisite, E. E. 111. Six credits; autumn, winter, spring. Loew, Lindblom.

**Will be offered if a sufficient number of students elect the course.

162. *Alternating Currents Laboratory*.—Experimental work with alternating current machinery. To be taken with E.E. 161. Prerequisite, E.E. 112. Lab. fee, \$4. Four credits; autumn, winter, spring. Hoard, Smith.
163. *Alternating Currents*.—Theory of alternators, rotary converters, synchronous and commutator motors and transmission lines; high tension phenomena; corona; commercial wave forms; unbalanced and inter-linked systems. To be taken with E.E. 164. Prerequisite, E.E. 161. Six credits; autumn, winter, spring. Hoard, Smith.
164. *Alternating Current Laboratory*.—To be taken with E.E. 163. Prerequisite, E.E. 162. Lab. fee, \$4. Four credits; autumn, winter, spring. Shuck, Weir.
171. *Electric Railways*.—Equipment, roadbed, construction and operation. Prerequisite, E.E. 109, 110. Four credits; winter. Hoard.
173. *Central Stations*.—Location, design, and operation of electric central stations. Prerequisite, E.E. 163, 164. Four credits; autumn, spring. Kirsten.
175. *Power Transmission*.—Theory, design and operation of electric power transmission lines. Prerequisites, E.E. 163, 164. Five credits; autumn, spring. Loew.
177. *Electric Public Utilities*.—Organization, ownership, valuation rates, service requirements, regulation and public relations. Prerequisites, E.E. 163, 164. Two credits; autumn. Hoard.
- 180, 182, 184. *Research*.—Two to five credits a quarter; autumn, winter, spring. Magnusson
181. *Radio*.—Lineal, open and complex oscillations; coupled circuits, resonance; theory and operation of the vacuum tube as a detector, amplifier and oscillator; dynatron characteristics. Prerequisite, E.E. 161, 162. Lab. fee, \$2. Five credits; autumn, winter. Eastman.
183. *Radio*.—Spark telegraphy; continuous wave telegraphy; radio telephony; theory of antennae and radiation; amplifier circuits. Prerequisite, E.E. 181. Lab. fee, \$2. Five credits; spring. Eastman.
- 186, 188. *Thesis*.—After consultation with the head of the department the student selects a suitable topic for investigation. Reports of progress are made weekly to the instructor in charge of the work selected. A complete report of the work is typewritten and bound and a copy deposited in the University library. Two to five credits a quarter; autumn, winter, spring. Kirsten, Loew.
191. *Engineering Equations*.—Mathematical investigation of electrical phenomena with quantitative solutions of typical engineering problems. Prerequisites, E.E. 161, 162. Three credits; winter, spring. Loew.
- 190, 192, 194. *Seminar*.—Prerequisites, E.E. 161, 162. Four credits; autumn, winter, spring. Magnusson, Loew.
195. *Electric Transients*.—Exponential law of simple transients; single and double energy transients; current oscillations and traveling waves; natural period of transmission lines; short circuits transients; surges; corona; lightning phenomena. Prerequisites, E.E. 163, 164. Two credits; autumn, winter, spring. Magnusson.
196. *Electric Transients Laboratory*.—To be taken in connection with E.E. 195. Prerequisite, E.E. 164. Lab. fee, \$2. Two credits; autumn, winter, spring. Smith.

198. *Electric Transients Laboratory*.—Continuation of E.E. 196. Lab. fee, \$2. Two credits; autumn, winter, spring. Smith.

COURSES FOR GRADUATES ONLY

210, 212, 214. *Research*.—Two to five credits a quarter; autumn, winter, spring. Magnusson, Kirsten, Loew.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

ENGINEERING SHOPS

Assistant Professor Schaller; Assistant Sullivan

52. *Pattern Shop*.—Designing and building wooden patterns and foundry flask equipment. Lab. fee, \$2. One credit; autumn, winter, spring. Sullivan.

53. *Foundry*.—Bench and floor moulding, use of moulding machines, core making, cupola practice, and foundry management. Lab. fee, \$3. One credit; autumn, winter, spring. Sullivan, Schaller.

54. *Forge*.—Forge practice, acetylene welding and heat treatment of steels. Lab. fee, \$2. One credit; autumn, winter, spring. Schaller.

55. *Machine*.—Elementary machine shop practice and management. Lab. fee, \$2. One credit; autumn, winter, spring. Schaller, Sullivan.

105. *Advanced Machine Shop Practice, Millwrighting*.—Prerequisite, Shop 55. Lab. fee, \$2. One credit; autumn. Sullivan.

106. *Advanced Machine*.—Advanced machine shop practice. Jigs and fixtures. Prerequisite, Shop 105. Lab. fee, \$2. One credit; winter. Sullivan.

107. *Shop Planning*.—Design and equipment of a representative manufacturing plant. Prerequisite, Shop 106. Lab. fee, \$2. One credit; spring. Schaller.

115. *Shop Management*.—Designing of plants both as to location and physical characteristics, as well as a study of their effective operation. Lab. fee, \$1. Three credits; winter. Schaller.

120. *Factory Cost Analysis*.—Analysis of shop practice with view to determining costs of operation and products. Lab. fee, \$1. Three credits; autumn and spring. Schaller.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

ENGLISH

Denny Hall

Professors Padelford, Parrington, Benham, Cox, Griffith, Orr; Associate Professors Milliman, Harrison; Assistant Professors Hughes, Small, Winther, Rahskopf, Groth; Instructors Windesheim, Eby, Ethel, Bird; Lecturer Sperlin; Associates Lawson, Hall, Jones, Vickner, Kerrigan, Wagenknecht, Adams, Brown, Peterson, Cappon, Cederstrom, Cornu, Nix, Mark, Sheppard; Assistants and Teaching Fellows.

SUGGESTIONS FOR MAJOR STUDENTS

The major requirement in English is from 36 to 60 hours, of which at least 50 per cent must be upper division courses. English 1 and 2,

or their equivalent of elementary composition, are required but cannot be counted toward a major.

Lower Division Students.—The lower division student should first satisfy the requirements of his college, so that he may acquire a background for his English studies. If however, after the fulfilment of these requirements, his schedule permits added work in English, he may register for any of the following courses: *Advanced Composition* (51, 52, 53; 54, 55, 56; or 61, 62, 63); *Readings in Literature* (80); *The English Essay* (81); *The Romantic Poets* (83); *Tennyson, Browning and their Contemporaries* (84); *Literary Backgrounds* (64, 65, 66); *American Writers* (67, 68, 69); *Shakespeare* (70, 71, 72); *Introduction to Modern Literature* (73, 74, 75); *Introduction to Poetry* (21); *Introduction to the History of the English Language* (117, 118, 119). Of these *Advanced Composition* and *Introduction to the History of the English Language* are especially recommended. As 60 credits, exclusive of freshman composition, is the maximum of English work allowed for a major, the student should avoid registering for more than 20 lower division credits in addition to English 1 and 2.

If a student has five hours credit for a lower division course in any literary period, he may, when he becomes an upper division student, disregard the recommendation below of the three-hour course in the same period. This rule applies to the following combinations of upper division and lower division courses in the same literary period. *The Romantic Poets* (83) and *The Romantic Movement in English Poetry* (174); *Tennyson, Browning and their Contemporaries* (84) and *The Victorian Poets* (175); *American Writers* (67, 68, 69) and *American Literature 1815-1870* (163); *Introduction to Shakespeare* (70, 71, 72) and *Shakespeare* (170).

Upper Division Students.—Senior Examination. At the conclusion of the senior year all major students are required to take an examination in literature. As the minimum requirement of 36 hours for a major subject is commonly inadequate to prepare for the senior examination, it will be well to increase the election materially. The examination will presume (1) a knowledge of the general development of English literature from Anglo-Saxon times and of American literature from 1815-1870; (2) a detailed knowledge of important periods, writers, or types of literature; (3) ability to write criticism of the works of the important periods, writers, or types of literature chosen under (2). The department recommends as preparation for this examination the following 3-hour courses: *Chaucer* (131); *Shakespeare* (170); either *Milton and his Contemporaries* (127) or *The Classic Period* (144); *Eighteenth Century Literature* (145 or 146); *American Literature 1815-1870* (163); and two courses from *The Romantic Movement in English Poetry* (174), *The Victorian Poets* (175), and *Nineteenth Century Prose* (137). "Honor Major in English" is a title used to designate a student who has an average of "B" in the English work of his junior year. Such an honor major is admitted to *Major Conference* (191, 192, 193) and may be excused from the senior examination, provided that his record as a student indicates high excellence both in general courses and in his specializations.

1-2-3. *Composition.*—Principles and practice of composition, with conferences for personal criticism. A grade of "A" in English 1 excuses a student from 2 on the recommendation of his instructor. Five

credits for two quarters; autumn, winter, spring. For Fine Arts students, three credits for three quarters; autumn, winter, spring.

Miss Lawson in charge.

4. *Composition*.—For students in forestry, fisheries, and pharmacy. Students are required to repeat the course if their work is not of high quality. Three credits; autumn, spring.

Miss Lawson in charge.

5. *Composition*.—For students in fisheries and forestry. Three credits; winter, spring.

Miss Lawson in charge.

7. *Elementary Composition*.—A non-credit composition course required of students who fail in the examination for entrance into English 1, 4, or 100. No credit; autumn, winter, spring.

21. *Introduction to Poetry*.—Designed to develop appreciation and understanding of poetry. Study of the poetic mind and of the material and methods of poetic art. Illustrative reading from poets of all periods. Five credits; winter, spring.

Hughes.

37. *Argumentation*.—Primarily for students in the College of Business Administration. Research, analysis, the use of evidence, and the discovery of fallacies are stressed. Five credits; autumn, winter, spring.

Orr in charge.

38. *Argumentation and Debating*.—A study of the principles of argumentation and their application in practical debate. Bibliographies, briefs, and oral and written arguments are required of each student. Important questions studied and debated in class. May be taken for upper division credit by upper division students. Five credits; autumn and winter.

Windesheim.

39. *Advanced Argumentation and Debating*.—May be taken for upper division credit by upper division students. Prerequisite, English 38. Three credits; spring.

Windesheim.

40. *Essentials of Speaking*.—This course seeks to remove self-consciousness, to discover a method of research that will arouse positive convictions, to teach a method for effective organization of material, to establish the power to think creatively before people, and to free the channels of expression so that the thought may be expressed effectively. Five credits; autumn, winter, spring.

Orr in charge.

41. *Advanced Speaking*.—A more technical study of the problem of speech delivery than in English 40. Both voice and body are trained to be more responsive to the mind. Proper coordination is secured through practical speech problems. Correction of speech defects. Preparation and delivery of speeches of different types before actual audiences when possible. Individual conferences when necessary. May be taken for upper division credit by upper division students. Prerequisite, English 40. Three credits; winter and spring.

Windesheim, Rahskopf.

43. *The Speaking Voice*.—A study of the vocal mechanism and the establishment of fundamental coordinations of mind, voice, and body, which are essential to effective speaking. May be taken for upper division credit by upper division students. Three credits; autumn, winter, spring.

Orr.

51, 52, 53. *Advanced Composition*.—Composition based upon models from current magazines. May be taken for upper division credit by upper division students. Prerequisite, English 1 and 2, 37, or 40. Two credits; autumn, winter, spring.

Milliman.

54, 55, 56. *Advanced Composition*.—Description, narration, and the writing of criticism. May be taken for upper division credit by upper

division students. Prerequisite, English 1 and 2, 37, or 40. Two credits; autumn, winter spring. Small, Ethel, Wagenknecht.

61, 62, 63. *Verse Writing*.—Principles of versification with practice in verse writing. Prerequisite, English 1-2. Two credits; autumn, winter, spring. Hughes.

64, 65, 66. *Literary Backgrounds*.—A historical survey of English classics emphasizing study of literary forms and the relation of literature to social and political movements. Open to all. Required in the freshman year of pre-journalism students. Three credits; autumn, winter, spring. Wagenknecht, Eby, Cappon, Cornu.

67, 68, 69. *American Writers*.—Studies in the works of Emerson, Hawthorne, Longfellow, Lowell, Whitman, Poe, Bryant, Whittier, Mark Twain, and others. For students who intend to major in English. Two credits; autumn, winter, spring. Milliman, Eby.

70, 71, 72. *Introduction to Shakespeare*.—Detailed study of Shakespeare's principal plays. Recommended to students who expect to major in English. Three credits; autumn, winter, spring. Wagenknecht, Eby.

73, 74, 75. *Introduction to Modern Literature*.—Essay studies of European and American thought of the nineteenth century and after, accompanied by readings in poetry, novel, and drama. Three credits; autumn, winter, spring. Milliman, Harrison, Cornu.

*80. *Readings in Literature*.

81. *The English Essay*.—Selected readings illustrating the development of the English essay. Five credits; autumn, winter, spring. Cornu.

*82. *Eighteenth Century Writers*

83. *Romantic Poets*.—Selections from the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats. Recommended to students who intend to major in English. Five credits; autumn, winter, spring.

Ethel, Cappon.

84. *Tennyson, Browning, and their Contemporaries*.—Recommended to students who expect to major in English. Five credits; autumn, winter, spring. Cappon.

97, 98, 99. *The Bible as Literature*.—The literature of the Old Testament. Open to all. May be taken by upper division students for upper division credit. Two credits; autumn, winter, spring. Wagenknecht.

100. *Composition for Students in Engineering and Mines*.—An intensive course in expository writing scheduled for juniors in the Colleges of Engineering and Mines. An examination taken in the sophomore year tests the ability of the student to recognize and construct clear English sentences and decides his admission to this course. Three credits; autumn, winter, spring. Hall.

101. *Public Debate*.—Students chosen for the debate squad may register for this course. The work is intensive, systematized instruction in practical debate. Regular meetings are held and definite tasks in research, analysis, and practical argumentation are assigned. Each member of the squad appears in public debate. Credits will be allowed upon the recommendation of the instructor in charge, provided that no more than two credits are earned in one year and that the total does not exceed six cred-

*Not offered 1928-1929.

its. Prerequisite, membership in the debate squad. Two credits; winter, spring. Orr in charge

102. *Advanced Composition for Engineers*.—In this course, the technical student who wishes to come in contact with authors representative of the thought or the culture of either the past or the present and to improve his own style of writing, is given opportunity to progress in accordance with his ability. Individual conferences, weekly. Prerequisite, English 100. Three credits; autumn, winter, spring. Hall.

103. *Extemporaneous Speaking*.—Recommended to students in engineering, business administration and law. Principles of effective speaking are studied and short original talks are prepared and delivered. Clear statement, sound argument, and effective presentation are sought. Not open to liberal arts students nor to students who have credit for English 40. Three credits; winter, spring. Windesheim.

104. *Contemporary Literature: American, French, German*.—Special studies in contemporary literature for advanced students. Three credits; autumn, winter, spring. Cox, Harrison, Winther.

105. *Contemporary Literature: Russian, Scandinavian*.—Special studies in contemporary literature for advanced students. Three credits; autumn, winter, spring. Harrison, Winther, Cox.

106. *Contemporary Literature: English and Irish*.—Special studies in English contemporary literature for advanced students. Three credits; autumn, winter, spring. Winther, Cox, Harrison.

*107. *Contemporary Drama*.

110, 111, 112. *Advanced Verse Writing*.—Given in conjunction with English 61, 62, 63. All the elementary credits must be earned before advanced credit will be given. Two credits; autumn, winter, spring. Hughes.

117, 118, 119. *Introduction to the History of the English Language*.—Studies in the origins and the history of the English vocabulary; historical English grammar. Each quarter of this course is prerequisite to those that follow except by permission of the instructor. Open to sophomores who expect to major in English. Two credits; autumn, winter, spring. Small.

124, 125. *The English Drama*.—Plays representative of the origin and development of English drama to 1642. Three credits; autumn, winter.

*126. *English Drama: 1660-1780*.

127. *Milton and his Contemporaries*.—Three credits; autumn, winter, spring. Benham.

130. *Medieval Literature*.—Old English classics studied in relation to the life and ideals of the Middle Ages. Three credits; winter. Small.

131. *Medieval Literature: Chaucer*.—Selections from the Canterbury Tales. English 151 is a continuation of this course. Three credits; autumn, winter, spring. Griffith, Small.

132. *Medieval Literature: Middle English*.—Middle English Literature, exclusive of Chaucer, with special emphasis upon the romances, Piers Plowman, and Gower. English 152 is a continuation of this course. Two credits; autumn. Benham.

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133. *Fifteenth Century Literature*.—The Renaissance in English literature and culture. Two credits; spring. Benham.
- *134. *The Reformation in England*.
136. *Prose of the Romantic Period*.—Literary criticism and essays of the early nineteenth century. Three credits; autumn, winter. Ethel.
137. *Prose of the Victorian Period*.—Later nineteenth century prose considered in its relation to social movements. Three credits; autumn, winter, spring. Parrington and Winther.
139. *Oral Style*.—Construction of the longer and more formal type of address. The best types of modern public addresses are analyzed for structure and style. Consideration of the problems of attention, interest, and successful appeal to action. Prerequisite, English 40. Three credits; spring. Rahskopf.
- 141, 142, 143. *Social Ideals in Literature*.—Model commonwealths and such other literature as illustrates the development of social and economic thought. Three credits; autumn, winter, spring. Benham.
144. *The Classic Period*.—Early eighteenth century prose and poetry. Three credits; autumn, winter, spring. Parrington, Cornu.
145. *Johnson and His Age*.—The prose writers of the second half of the eighteenth century—Johnson, Goldsmith, Walpole, Burke, and Hume. The critical, historical, and philosophical interests. Three credits; winter. Cox.
146. *Eighteenth Century Romanticism*.—The dawn of romanticism in poetry from Thomson to Wordsworth. The changing forms, spirit, and materials of poetry. Three credits; autumn. Cox.
- 147, 148, 149. *The English Novel*.—The development of the English novel from Richardson to Galsworthy. The eighteenth century novel, the romantic novel, and the modern realistic novel are studied in the successive quarters. Three credits; autumn, winter, spring. Cappon.
151. *Chaucer: Advanced Course*.—Prerequisite, English 131. Three credits; spring. Griffith.
152. *Middle English Classics: Advanced Course*.—Prerequisite, English 132. Three credits; winter. Benham.
- 161, 162, 163.—*History of American Culture*.—A consideration of the American ideals and their expression in literature. The fall quarter is devoted to early New England, the winter quarter to the Knickerbocker School and the literature of the South, and the spring quarter to the New England Renaissance (American Literature, 1815-1870). Three credits; 161, autumn, 162 and 163, autumn, winter, spring. Parrington, Harrison, Eby.
- 164, 165, 166. *American Literature since 1870*.—Autumn, the beginnings of realism; winter, tendencies from 1900 to 1915; spring, contemporary fiction and poetry. Three credits; autumn, winter, spring. Parrington, Harrison.
- 170, 171, 172. *Shakespeare*.—The early plays and poems to 1598, the later plays, and selected problems in Shakespearean study in successive quarters. Prerequisite to 172, English 170 or 171 or 70, 71. Three credits; autumn, winter, spring. _____, Winther.
174. *The Romantic Movement in English Poetry*.—The works of Wordsworth, Coleridge, Shelley, Byron, and Keats. English 177 follows

this course. Not open to students who have credit for English 83. Three credits; autumn, winter, spring. Cox, Ethel.

175. *The Victorian Poets*.—Tennyson, Browning, the Pre-Raphaelites, Arnold, Swinburne. Not open to students who have credit for English 84. Three credits; autumn, winter, spring. Winther.

176. *Studies in Victorian Poetry*.—Detailed studies in the poetry of Tennyson, Browning, the Pre-Raphaelites, Arnold, and Swinburne. Prerequisite, English 175 or 84. Three credits; spring. Winther.

177. *Studies in the Romantic Poets*.—Detailed studies of poetical problems and their relation to the intellectual currents of the age in the works of Wordsworth, Coleridge, Shelley, Byron, and Keats. Prerequisite, English 83 or 174. Three credits; spring. Cox.

180, 181, 182. *Old English Language*.—The reading of Anglo-Saxon classics in the original and the study of grammatical forms. Three credits; autumn, winter, spring. Vickner.

*183, 184, 185. *General Literature*.

187, 188. *Advanced Speech Problems*.—Prerequisite, English 43. Three credits; winter, spring. Orr, Rahskopf.

189. *Oral Reading*.—Training in the natural use of the voice in reading, teaching, and conversation. Practice reading in class with criticism and suggestions. Required of those who expect to teach English. English 43 offers valuable preparation for this course. Three credits; autumn, winter, spring. Orr, Rahskopf.

190. *Public Speaking and Debate in the High School*.—The organization of high school courses in public speaking and debate. Prerequisite, English 38 and 40. Two credits; spring. Orr.

191, 192, 193. *Major Conference*.—Individual conferences to correlate studies in the different literary periods and for guidance in individual reading. Each student meets his instructor once a week in conference. Open only to students who have an average of "B" in the English of their junior year. Three credits; autumn, winter, spring. Cox in charge.

194. *Major Thesis*.—Training in the methods of literary study. Critical reading and the assessment of material. Required of major students who do not take major conference. Open to all majors in English. Three credits; autumn, winter, spring. Winther.

Teachers' Course.—See Education 160E, 160EC, and 160EL.

For courses in foreign literature taught in English, see Department of General Literature.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Introduction to Graduate Study*.—Methodology and bibliography of the English language and literature. Normally the first graduate course in English. Two credits; autumn, winter, spring. Benham.

204, 205, 206. *Seminar in Chaucer*.—The works of Chaucer and the problems of Chaucerian scholarship. Two to five credits; autumn, winter, spring. Griffith.

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*207. *English Literature from Chaucer to Spenser.*

208, 209, 210. *Seminar in Pre-Shakespearean Drama.*—Research problems in English drama from the beginnings to Shakespeare. Two to five credits; autumn, winter, spring. Small.

*211, 212, 213. *Seminar in Sixteenth Century Literature: Spenser.*

217, 218, 219. *Seminar in Shakespeare.*—Problems in the study of Shakespeare and his contemporaries. Two to five credits; autumn, winter, spring.

221, 222, 223. *British Culture in the Seventeenth Century.*—Studies in the renaissance and the reformation, the literature of the Puritan and the Cavalier, the Jacobean and restoration drama, and the beginnings of English science. Two to five credits; autumn, winter, spring. Benham.

224, 225, 226. *Seminar in American Literature.*—Intensive studies in American literature. Two to five credits; autumn, winter, spring.

230, 231, 232. *Old English.*—Anglo-Saxon grammar; readings in Old English prose and poetry; Beowulf. Three credits; autumn, winter, spring. Parrington
Vickner.

233, 234. *Advanced Old English.*—Readings from Beowulf, the *Riddles*, and the works of Caedmon, Cynewulf, and others. Prerequisites, English 230, 231, 232 or equivalent. Three credits; winter, spring. Small.

237. *Gothic.*—Readings in Gothic as an introduction to the study of the Germanic languages. Prerequisite, English 230, 231, 232 or equivalent. Three credits; autumn. Small.

240, 241, 242. *Seminar in Nineteenth Century Literature.*—Intensive study of writers of the nineteenth century. Two to five credits; autumn, winter, spring. Padelford.

246. *Seminar in Eighteenth Century Literature.*—Two to five credits; spring. Cox.

250, 251, 252. *Thesis Research.*—A student should not enroll for this course until after he has chosen a thesis subject. Time and credit to be arranged. Autumn, winter, spring. The Staff.

For other graduate courses that may be counted toward an English major for an advanced degree, see French 210, 211, 212, *French Criticism*; and Liberal Arts 214, 215, 216, *Studies in Realism*.

OTHER COURSES WHICH MAY RECEIVE CREDIT IN ENGLISH

Play-Writing.—See Dramatic Art 111, 112, 113.

History of Theatre Art.—See Dramatic Art 127.

Representative Plays.—See Dramatic Art 151, 152, 153.

Introduction to Theory of Literature.—See General Literature 101.

COMPARATIVE PHILOLOGY

The following courses in Comparative Philology are available in the department of Scandinavian Languages and Literature.

190, 191. *Introduction to the Science of Language.*—Two credits; autumn, winter. Vickner.

192. *Life of Words.*—Two credits; spring. Vickner.

*Not offered in 1928-1929.

FISHERIES

Fisheries Hall

Professors Cobb, Kincaid; Assistant Professors Parks, Crawford; Instructors Jarvis, Schultz.

1. *History of Fisheries.*—History of the fisheries of Europe, Africa and Western Asia from earliest times to the present. Two credits; autumn. Cobb.

2. *History of Fisheries.*—History of the Atlantic fisheries of North and South America from earliest times to the present. Two credits; winter. Cobb.

6. *Pacific Fisheries.*—General review and history of fisheries of the countries bordering on the Pacific Ocean. Two credits; winter and spring. Cobb.

50. *Elements of Fisheries.*—Fishery science, stressing economic and cultural aspects of the subject. Lectures, demonstrations, and occasional trips. Offered only to students not enrolled in the College of Fisheries. Three credits; spring. Jarvis.

53, 54. *Ichthyology.*—Structure, classification and habits of economic fishes. Prerequisite, Zool. 1, 2. Lab. fee, \$3. Five credits a quarter; autumn, winter; winter, spring. Schultz.

60. *Aquatic Animals other than Fish.*—The natural history of aquatic animals other than fish, such as whales, seals, oysters, clams, crabs, etc. Prerequisite, Zool. 1, 2. Fee, \$3. Three credits; spring. Schultz.

65. *Fishing Vessels and Boats.*—Types of fishing vessels and boats; their design, construction and operation. Two credits; spring. Parks.

101, 102, 103. *Fish Culture.*—Developmental history and artificial propagation of economic fishes, lobsters, etc. Prerequisite, Fish. 54, and Zool. 5. Lab. fee, \$3. (Fish. 101 repeated in spring quarter.) Five credits a quarter; autumn, winter, spring. Crawford.

104, 105. *Fishery Methods.*—Construction and uses of apparatus. Three lectures and two laboratory periods. Lab. fee, \$3. Five credits a quarter; winter, spring. Cobb.

110. *Fresh and Frozen Fishery Products.*—Handling, care and transportation of fresh and frozen aquatic animals. Prerequisites, Fish. 54 and Bact. 101. Three lectures and two laboratory periods. Lab. fee, \$4. Five credits; autumn. Jarvis.

111. *Curing of Fishery Products.*—Commercial methods of curing and preservation, by drying, salting, smoking, spicing, etc., of aquatic animals. Prerequisite, Fish. 110. Three lectures and two laboratory periods. Lab. fee, \$4. Five credits; winter. Jarvis.

**112. *Oyster and Clam Culture.*—Development and propagation of oysters and clams. Prerequisite, Fish. 60. Lab. fee, \$3. Five credits; autumn.

120. *Fundamentals of Canning.*—Principles on which canning is based; sterilization, including heat penetration, effect of acid foods on bacteria, and fill of can; exhaust and vacuum, including methods of obtaining, purposes,

**Offered if elected by a sufficient number of students.

and effect of temperature and altitude upon vacuum; corrosion of tin plate. Prerequisite, Bact. 101. Lab. fee, \$4. Five credits; autumn. Parks.

121. *Canning Machinery and Cannery Management*.—Types, installation and operation of canning machinery and equipment; cannery personnel; paper forms used in cannery practice. Prerequisite, Fish. 120. Lab. fee, \$4. Five credits; winter. Parks.

122. *Canning of Fishery Products*.—Commercial methods of canning aquatic animals in either tin or glass. Three lectures and two laboratory periods. Prerequisite, Fish. 120. Lab. fee, \$4. Five credits; spring. Parks.

140. *Aquarium Management*.—Study and care of aquatic animals and plants in balanced and running water aquaria. Three lectures and laboratory period of one hour daily. Lab. fee, \$3. Five credits; autumn. Crawford.

145. *Food Laws*.—Study of federal, state and foreign laws regulating the sale of food products. One lecture a week. One credit; winter. Parks.

147. *Preparation of Secondary Products*.—Manufacture of fish meal, fertilizer, oils, glues, leathers and furs from aquatic animals. Prerequisite, Fish. 122. Three lectures and demonstrations. Three credits; winter. Jarvis.

150,151,152. *Problems in Fish or Shellfish Culture and Fisheries Technology*.—Students with proper preparation, which should include 15 hours in fish culture, or 15 hours in shellfish culture and Fish. 53, 54, 60, or 15 hours in fishery methods and preparation of fishery products, will be assigned special problems to be worked out under the direction of the instructor. Lab. fee, \$5. Five credits a quarter; autumn, winter, spring. Cobb and Staff.

154. *Diseases of Fish*.—Nature and causes of disease in fish. Three lectures and two laboratory periods. Lab. fee, \$4. Five credits; autumn. Guberlet.

**175. *Exploration of the Sea and its Relation to Economic Food Fishes*.—The influence of various factors in the conditions of life of economic food fishes in the sea. Three credits; spring.

180. *The Economic Fishery Resources of North America*.—Fishery resources of the North American Continent and adjacent seas, their development and commerce, and government policies of conservation. Three credits; autumn. Cobb.

**190. *Fishways and Fishstops*.—The design, construction and uses of fishways and fishstops. Two lectures and one laboratory period. Senior standing. Three credits; autumn. Cobb.

195, 196, 197. *Seminar*.—Assigned readings and reports in current periodical literature. Bibliographical work, discussions and symposiums on subjects of general interest to advanced students in fisheries. Prerequisite, senior or graduate standing in fisheries. Two credits; autumn, winter, spring. Cobb and staff.

COURSES FOR GRADUATES

201, 202, 203. *Research Problems*.—Investigation of assigned problems. Open to qualified graduates after consultation. Credits and time to be arranged. Lab. fee, \$1 per credit hour. Autumn, winter, spring. Cobb and staff.

**Will be offered if a sufficient number of students elect the course.

FORESTRY AND LUMBERING

Anderson Hall

Professors Winkenwerder, Kirkland; Associate Professor Grondal; Assistant Professors Alexander, Brandstrom; Lecturer Clark.

1. *Elementary Dendrology*.—Nomenclature, classification and identification of trees, including all northwest species and one type species of each genus of the important timber trees of North America. Required of freshmen. Two recitations, one quiz and two 3-hour laboratory periods a week, field trips additional. Lab. fee, \$2. Five credits; autumn or spring.

Alexander, Winkenwerder.

2. *General Forestry*.—To familiarize the student with the field of work he is about to enter. Required of all freshmen. Three credits; autumn.

Winkenwerder.

3. *General Forestry*.—Continuation of For. 2 but need not be preceded by it. Three credits; winter.

Winkenwerder.

4. *Forest Protection*.—Classification of injuries, factors influencing the spread and severity of forest fires, slash disposal, methods of detection and suppression. Required of freshmen. Three credits; spring or winter.

Winkenwerder.

5. *Woodcraft*.—Food and clothing, camp equipment and sanitation, packing a horse, and general woodcraft. One-half of the course is devoted to first aid work. A section will be arranged for students not enrolled in forestry if not less than 12 apply. Two lectures a week; demonstrations and practice work additional. Lab. fee, \$2. Two credits; autumn.

Kirkland, Alexander, Hall.

6. *General Forestry*.—For students not majoring in forestry. Prerequisite to all other courses in forestry for non-majors in forestry, offered primarily for business administration students who desire to prepare for work in lumber marketing. Others admitted until section is full. Three credits; winter.

Winkenwerder.

7. *Forest Protection*.—Protection against insect and fungus attacks, animals, avalanches, land slides, floods, shifting sands. Required of sophomores. Three credits; autumn.

Winkenwerder.

51. *Forest Mensuration*.—Principles and methods of computing, scaling, cruising, mapping; construction of volume tables, taper tables, and form factors. Three recitations, two 3-hour laboratory periods. Prerequisite, Math. 51, C.E. 55. Lab. fee, \$2. Five credits; spring.

Alexander and assistant.

52. *Forest Mensuration*.—Methods of studying growth in diameter, height and volume; sample plot methods, construction and use of growth and yield tables. Three recitations and two 3-hour laboratory periods. Prerequisite, For. 51. Lab. fee, \$2. Five credits; spring.

Alexander and assistant.

53. *Construction*.—Trails, roads, logging railroads, telephone lines, wooden bridges, cabins, barns, and fences; land clearing, United States Forest Service improvement work, and logging construction. Required of sophomores. Prerequisite, G.E. 21 or C.E. 55. Lab. fee, \$2. Three credits; winter.

Clark, Brandstrom.

57. *Silviculture*.—Influence of the climatic physiographic and biotic factors on forest vegetation and the reaction of forests on these factors. Evaluation of site factors. Five credits; autumn or winter.

Alexander.

58. *Silviculture*.—Silvical characteristics of tree species, forest types, the silvicultural systems, regional forestry, silviculture. Lab. fee, \$2. Five credits; winter.

Alexander.

59. *Silviculture*.—Practice in collecting data and preparing plans for the silvicultural handling of forest tracts. Field work in methods of cutting, nursery practice, seeding, and planting. Research methods. Lab. fee, \$2. Six credits; spring. Alexander.
101. *Wood Technology*.—Wood structure and identification of commercial timbers of the United States; physical properties of woods; kiln drying. Required of juniors. Prerequisite to all courses in forest products; prerequisites, college botany, For. 1, 10 hours chemistry and Physics 1. Lab. fee, \$2. Five credits; autumn. Grondal and assistant.
104. *Timber Physics*.—General mechanics, stresses, tests, theory of flexure, moisture and strength; mechanical properties of wood. Required of juniors. Prerequisite, Math. 51, 52, 56, For. 101, Physics 1 and 2. Lab. fee, \$2. Five credits; winter.
105. *Wood Preservation*.—Nature of decay of timber; methods and economics of preservation. Laboratory work with the college treating plant and reports on local creosoting plants. Required of juniors and graduates. Prerequisites, For. 101 and ten hours of chemistry. Three credits; winter. Grondal.
110. *Characteristics of Trees*.—Identification, distribution, life habits, and uses of trees of the Pacific Northwest. Offered only to students not enrolled in forestry. Two lectures weekly and occasional field trips. Two credits; spring. Winkenwerder.
119. *Forest Administration*.—Objects, principles and methods of administering private and public forests and forest industries. Three credits; autumn. Kirkland.
126. *Forest Economics*.—Forests of the United States, their uses and relation to other industries and resources. Statistics of production and consumption. Required of juniors or seniors in forestry and open to students in other departments. Prerequisites, B.A. 1 or 3. Three credits; winter. Kirkland.
151. *Forest Finance*.—Mathematics of forest finance and operations; cost of growing timber; valuation of land for forest production. Required of students in senior or graduate year. Prerequisites, For. 52 and 58. Three credits; autumn. Kirkland.
152. *Forest Organization*.—Principles of forest organization and regulation of the cut; advantages of foresight and planning in forest operations for a term of years; sustained yield management of forests; forest working plans. Required of students in senior or graduate year. Prerequisite, For. 151. Three credits; winter. Lab. fee, \$2. Kirkland.
153. *General Lumbering*.—Comparative methods of lumbering on the Pacific Coast and in other lumbering regions of the United States. Prerequisite to all courses in logging and milling. Required of juniors. Five credits; autumn. Clark, Brandstrom.
157. *Lumber and Its Uses*.—Wood structure, leading to identification of local species; physical and mechanical properties of wood. Primarily for business administration students (not open to students majoring in forestry). Three credits; winter. Grondal.
158. *Forest Utilization*.—Pulp and paper manufacture, tannic acid, naval stores and other secondary forest products; lumber and its economic uses in construction. Required of juniors and graduates. Prerequisite, For. 101, and 10 hours of chemistry. Five credits; spring.
- 160, 161, 162. *Forest Investigations*.—The object of this course is to enable students to prepare themselves for work in certain special fields for which the College of Forestry offers no regular courses, such as grazing,

city forestry, tree surgery, forest recreation, etc. Credits to be arranged any quarter. Instructor assigned according to nature of work. Registration in this course subject to the approval of the dean of the college. Lab. fee, \$3. Staff.

183. *Milling*.—The sawmill; yard arrangements; practical operation, practical problems at local sawmills. For seniors and graduates. Prerequisites, M.E. 82, For. 104, 153, 158. Five credits; autumn. Grondal.

184. *Manufacturing Problems*.—Technical trade requirements, routine of sawmill practice; relation of waste to marketing; lumber grades and their uses. Exports. Required of all students specializing in milling and marketing. Prerequisites, For. 183, B.A. 56, B.A. 65. Three credits; winter. Grondal.

185-186-187. *Logging Engineering*.—Logging machinery and equipment, organization of logging companies, construction of railroads, camps, etc. Lectures, demonstrations at plants manufacturing logging machinery, and field work in nearby logging camps. During the third quarter all the work is transferred to the field, where extensive work in logging engineering is conducted. No credit is given for courses 185 and 186 unless followed by 187. Primarily for seniors and graduates. Required of all students specializing in logging engineering. Prerequisites, For. 52, 53, 58, 104, 153, M.E. 82, C.E. 22. Lab. fee for 187, \$3. Four credits a quarter, autumn and winter. Sixteen credits; spring. Clark, Brandstrom.

188. *Theory and Practice of Kiln Drying*.—Theory of seasoning; design, construction and practical operation of dry kilns. Special seasoning problems. Prerequisites, For. 101, 158. Lab. fee, \$3. Five credits; winter. Grondal.

189. *Wood Pulp*.—Design of waste conversion plants; wood pulp manufacture. Prerequisites, For. 101, 158. Lab. fee, \$3. Five credits; spring. Grondal.

190. *Advanced Wood Preservation*.—Continuation of For. 105. Design, construction and technical operation of wood preserving plants. Methods of analysis and evaluation of wood preservatives. Required of all students specializing in forest products. Prerequisite, For. 189. Lab. fee, \$2. Three credits; spring. Grondal.

193, 194. *Seminar*.—Review and advanced work in dendrology, mensuration, silviculture and lumbering. Prerequisites, For. 52, 58, 151, 153. Three credits; winter. Staff.

196. *Forest Management*.—Continuation of Forestry 152. Lectures, assigned readings and extensive field work on large size tracts of timber. Required of all students majoring in forest management. Prerequisites, For. 119, 152, 194. Lab. fee, \$3. Eight credits; spring. Kirkland.

COURSES FOR GRADUATES ONLY

201. *Forest Geography*.—Advanced dendrology. Silvicultural regions, their relation to regional industrial development and general problems of lumbering and management. Three credits; autumn. Winkenwerder.

202. *Thesis*.—Autumn, winter, or spring; three to six credits per quarter, total requirement nine credits. Instructors assigned according to nature of work. Staff.

208, 209. *Graduate Seminar*.—Reviews, assigned readings, reports, and discussions on current periodical literature and the more recent Forest Service and state publications. Three credits a quarter; autumn, winter. Staff.

213, 214, 215. *Research*.—Ample opportunity is offered for advanced research in any of the special phases of forestry. Credits to be arranged; any quarter. Instructors assigned according to nature of work. Lab fee, \$3. Staff.

221. *Forest History and Policy*.—Forest policy of the United States; forestry in the states and island possessions; the rise of forestry abroad. Three credits; autumn. Kirkland.

223. *Advanced Forest Management*.—About one week of field work on a tract of 50,000 to 100,000 acres. Formation of a working plan for regulation of the yield and organization of all forest work on the area, with estimates of outlay and income. The basic field data are supplied. Eight credits; spring. Kirkland.

224. *Advanced Milling and Marketing*.—Sawmill design and a detailed study of special problems in sawmill operation and management. Five credits; spring. Grondal.

GENERAL ENGINEERING

Education Hall

Associate Professor Wilcox; Assistant Professors Collier, Warner, Hawthorne, Van Horn, Farquharson; Instructors Chittenden, Robinson, Smith, Jacobsen, Rathbun, Rhodes, Weir.

1. *Engineering Drawing*.—Lettering; engineering sketching, fundamental principles of working drawings. Lab. fee, \$2. Three credits; autumn, winter, spring. Warner.

2. *Engineering Drawing*.—Use of instruments; reading of drawings; detail and assembly drawings; tracing, standards and conventions. Prerequisite, G.E. 1. Three credits; autumn, winter, spring. Warner.

7. *Engineering Drawing*.—A special short course for Forestry and Fisheries. Lettering, use of instruments, orthographic projection, working drawings and tracings. Lab. fee, \$2. Three credits; winter, spring. Warner.

11. *Engineering Problems*.—Training in methods of attacking, analyzing and solving engineering problems. Coaching in proper methods of work and study, including training in systematic arrangement and clear workmanship. Deal principally with the dynamic side of the problems. Three credits; autumn, winter, spring. Wilcox.

12. *Engineering Problems*.—Continuation of the work in G.E. 11, most of the time being devoted to statics and mechanics of materials. Prerequisites, G.E. 1, G.E. 11 and Math. 51. Should be accompanied by Math. 52. Three credits; autumn, winter, spring. Wilcox.

13. *Engineering Problems*.—Detailed analysis and solution of engineering problems dealing with space and dimensions by the use of drafting room methods. Descriptive geometry. Prerequisites, G. E. 1 and G. E. 2. Three credits; autumn, winter, spring. Warner.

21. *Plane Surveying*.—Surveying methods, instruments, computations, mapping, U.S. public land surveys. Prerequisites, G.E. 1, 2 and Math. 51. All freshman engineers. Lab. fee, \$2. Three credits; autumn, winter, spring. J. W. Miller.

GENERAL LITERATURE

Denny Hall

Committee in charge.—*Dean Thomson; Professor Benham; Associate Professor Stone; Assistant Professors DeVries, Griffin.*

Advisers.—*Associate Professor Stone; Assistant Professor DeVries.*

A major in General Literature requires a reading knowledge of two foreign languages, General Literature 101, 191, 192, 193, and sufficient other courses to make a total of from 36-60 credits.

In preparation for this major and for General Literature 101, the student should earn 18 lower division credits from the following groups with not more than ten hours in any one group.

- I. Greek 15-16.
- II. Oriental Studies 50, 51, 52, 70, 71, 80.
- III. English 64, 65, 66, 80, 98.
- IV. German 70, 106, 107, 108, Scandinavian Languages, 109, 110, 111, 180, 181, 182.
- V. French 118, 119, 120, Spanish 118, 119, 120, Italian, 118, 119, 120.
- VI. Liberal Arts 11, Philosophy 123.

The upper division courses listed above may be entered by qualified sophomores who have obtained the permission of the instructors.

The remaining courses offered for this major should be arranged in consultation with a major adviser. The plan of work should include a survey of at least one national literature, some studies in each of the following groups, and a special knowledge of one of these groups.

- I. Oriental Literature.
- II. Greek and Latin Literature.
- III. Medieval and Renaissance Literature.
- IV. Classic and romantic movements in modern literature.

101. *Introduction to Theory of Literature.*—The relation of literature to life in the light of recent psychological, philosophic, and social scholarship. (May receive credit in English.) Five credits; autumn and spring.

DeVries.

191, 192, 193. *Major Conference.*—Individual conference to correlate studies and for guidance in individual reading. Each student is expected to meet his instructor once a week in conference. Three credits; autumn, winter, spring.

Stone, DeVries.

GEOLOGY AND GEOGRAPHY

Science Hall

Professors Landes, Weaver; Associate Professors Renner, Goodspeed; Associates Seeman, Bauer, Goodsell.

I. GEOLOGY

Courses described below are grouped to lead into different fields of geological work, as follows:

General Geology: Courses 1a-9, 100-109, and 200-209.

Mineralogy, Petrography, and Economic Geology: Courses 20-29, 120-129, and 220-229.

Paleontology: Courses 1a, 1b and 2, 130-140, and 230-240.

The year in geology for Liberal Arts students may be satisfied by

the following combinations: Geology 1a, 1b and 2; 1a, 1b and 21; 1a, 1b and Geography 112; 1a, 1b and Geography 11.

To satisfy a science requirement in geology, courses 1a and 1b may be taken the same quarter, or 1a should be taken first, followed by 1b. As electives, credit will be given if these courses, 1a and 1b, are taken separately.

1a. *General Geology*.—Materials of the earth, rocks, minerals, and rock structure. Lectures and laboratory work with occasional half-day field trips. Lab. fee, \$1. Three credits; autumn, winter, spring.

Goodspeed.

1b. *General Geology*.—Geological agencies and processes affecting the earth's surface. Lectures and laboratory work with occasional half-day field trips. Lab. fee, \$1. Two credits; autumn, winter, spring.

Landes.

2. *General Geology*.—Historical. Continuation of courses 1a and 1b dealing with the origin and evolution of the earth. Lectures and laboratory work, with some field excursions. Prerequisite, Geol. 1a, 1b. Lab. fee, \$2. Five credits; autumn, winter, spring.

Weaver.

4. *Principles of Geology*.—Historical. The earth's origin and the general history of the continent. For College of Mines students only. Lectures, recitations and field trips, without laboratory work. Prerequisite, Geol. 1a, 1b. Three credits; spring.

Weaver.

21. *Mineralogy*.—Crystallography, followed by descriptive mineralogy and blowpipe methods. Prerequisite, Geol. 1a, 1b, and at least a high school course in chemistry. Lab. fee, \$2. Five credits; autumn. Landes.

*101. *History of Geology*.

105. *Geology for Engineers*.—Survey of the field of general geology for the special needs of students in civil, electrical, or mechanical engineering. Prerequisite, junior standing in the College of Engineering. Lab. fee, \$2. Five credits; spring.

Landes.

120. *Petrology*.—Study of the mode of occurrence and origin of rocks and their relation to geological processes and history. Prerequisite, Geol. 124. Lab. fee, \$2. Four credits; winter.

Goodspeed.

*121. *Advanced Mineralogy*.

*122. *Field Methods*.

123. *Optical Mineralogy*.—Principles and methods involved in the use of the petrographic microscope; recognition of the optical properties of the common minerals. Prerequisite, Geol. 1a, 1b, and 21. Lab. fee, \$2. Three credits; spring.

Goodspeed.

124. *Petrography*.—Systematic study, both microscopically and in thin sections with the petrographic microscope, of igneous, sedimentary, and metamorphic rocks. Prerequisite, Geol. 123. Lab. fee, \$2. Three credits; autumn.

Goodspeed.

125. *Sedimentary Petrography*.—Principles of correlation of sedimentary rocks by their mineral constituents. Methods of preparation involving the use of heavy solutions and the recognition of mineral grains under the petrographic microscope. Prerequisite, Geol. 120. Lab. fee, \$2 to \$5. Two credits, with additional credits optional; spring.

Goodspeed.

126. *Economic Geology*.—Economic deposits of the principal non-metallic minerals, their production and uses. Lectures and discussion of

*Not offered in 1928-1929.

papers. Prerequisites, Geol. 1a, 1b and 21. Three credits; autumn.

127. *Economic Geology*.—Economic deposits of the chief metallic minerals, their production and uses. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b, 21 and 124. Five credits; winter. Landes.

128. *Economic Geology*.—Petroleum fields of the world. Lectures and discussion of papers. Prerequisites, Geol. 1a, 1b. and 2. Three credits; spring. Landes.

131. *General Paleontology*.—Principles of paleontology and a general systematic study of fossils. Prerequisite, Geol. 2. Lab. fee, \$2. Five credits; winter. Weaver.

132. *Invertebrate Paleontology*.—A study of the more important type fossils of each geologic period. Prerequisite, Geol. 131. Lab. fee, \$2. Five credits; spring. Weaver.

140. *Structural and Stratigraphic Geology*.—Certain structural and stratigraphic features, and their practical applications. Prerequisites, Geol. 2, 120, and 122. Three credits; autumn. Weaver.

COURSES FOR GRADUATES ONLY

Two modern languages, a Teutonic and a Romanic, are practically necessary for graduate work in geology.

200. Field studies or advanced work in general geology. Credits and hours to be arranged. Each quarter. Landes, Weaver, Goodspeed.

220. Advanced or research work in mineralogy, petrography and petrology. Credits and hours to be arranged. Each quarter. Goodspeed.

225. Advanced or research work in economic geology. Credits and hours to be arranged. Each quarter. Landes.

230. Advanced or research work in paleontology and stratigraphy. Credits and hours to be arranged. Each quarter. Weaver.

II. GEOGRAPHY

The year in geography for Liberal Arts students may be satisfied by the following combinations: Geography 1, and 11 or 101 or 103; Geology 1a, 1b, and Geography 1 or 11.

For students in Business Administration, Geography 100, and 101 are suggested; for students in Oriental Studies, Geography 1 and 103; and for students in Education, Geography 1 and 160.

1. *Principles of Economic Geography*.—A study of the world from a regional standpoint, as a basis for the understanding of the adjustments which man makes to his environment. All the branches of human ecology, viz. economic geography, social geography, political, and historical geography are touched upon.

This course is planned as a science requirement for Liberal Arts students and also as a basic course in a broad, cultural education.

Teachers of geography will find it of especial benefit in providing them with the latest content and philosophy of their subject. Lab. fee, \$1. Five credits; autumn and spring. Renner, Seeman.

Geographic Background of Industry.—See Bus. Adm. 7. Renner, Seeman.

11. *Weather and Climate*.—Weather elements and controls; causes and effects of atmosphere conditions; principles and methods of weather forecasting and use of instruments. Lab. fee, \$1. Five credits; winter.

Renner.

100. *Economic Geography of North America*.—A regional study of the continent, explaining the regional specialization in industry and geographic division of labor; analysis of the environmental factors which have occasioned the growth and character of the various sections of the United States; waterpower, conservation, growth of cities, foreign policies, and internal problems. Prerequisites, Geography 1, B.A. 7 or History 8 and 9. Five credits; spring. Renner.

101. *Industrial and Political Geography of Europe*.—A study of the geographic factors which have occasioned the growth of industrial Europe; Europe as an economic competitor of America; the geographic background for the rise of the Great Powers of Europe. Prerequisites, Geography 1 or 11, or B.A. 7. Five credits; autumn. Renner.

*102. *Economic Geography of Latin America*.

103. *Political and Economic Geography of Asia*.—A study of the various countries of Asia and their division into geographic regions. A review of the factors of historical and social geography which have occasioned the present political and economic status of Asia. Prerequisites, Geography 1 or 11, or B.A. 7, or one course in Oriental Studies. Five credits; winter. Renner.

*104. *Geography of Africa and Australasia*.

*111. *Climatology*.

*112. *Physiography of the United States*.

*114. *Oceanography*.

*116. *Economic Geography of Washington*.

Teachers' Course in Geography.—See Edu. 160F.

COURSES FOR GRADUATES ONLY

200. Advanced research work in geography. Credit and hours to be arranged. Autumn and winter. Renner.

203. Research in the geographic problems of Asia. Credit and hours to be arranged; spring. Renner.

212. Advanced studies or field work in physiography. Credit and hours to be arranged; each quarter. Renner.

GERMANIC LANGUAGES AND LITERATURE

Home Economics Hall

Associate Professor Eckelman; Lecturer Meisnest; Associates Wesner, Terzieff, Ankele; Assistant Professor Groth.

Requirements for a departmental major: at least 35 hours in the department chosen from courses other than German 1, 2, 3. At least 50 per cent of the hours in the major must be in upper division courses. For the departmental or academic major, who wishes a recommendation to teach: the same, including German 110, 121, Educ. 160G and at least nine credits in literature.

Credit is allowed for any quarter in any course except 1-2.

*Not offered in 1928-1929.

All courses are conducted in German unless otherwise specified.

1-2. *First Year*.—Stage pronunciation, grammar, reading of easy prose and verse, conversation. Five credits a quarter; autumn, winter, spring.

Meisnest, Groth, Wesner, Terzieff, Ankele.

3. *First Year Reading*.—Reading of modern prose, conversation, composition, continuation of grammar. Prerequisite, Ger. 1-2 or one year in high school. Five credits a quarter; autumn, winter, spring.

Eckelman, Meisnest, Groth, Wesner, Terzieff, Ankele.

5. *Second Year Reading*.—Pronunciation, vocabulary building, reading of modern prose, simple conversation. Prerequisite, Ger. 3 or two years high school. Three credits; autumn, winter, spring.

Meisnest, Groth, Ankele.

6. *Second Year Rapid Reading*.—Modern prose, vocabulary building, simple conversation. Prerequisite, Ger. 5 or 10; Ger. 3 Grade A, or on consent of instructor. Three credits; winter.

Meisnest.

7. *Second Year Rapid Reading*.—Modern prose, vocabulary building, simple conversation. Prerequisite, Ger. 5 or 6 or 10 or 11. Three credits; spring.

Wesner.

10, 11, 12. *Second Year Review Course*.—Modern prose, grammar review with emphasis on syntax, simple conversation. Prerequisite as for German 5. Two credits; autumn, winter; three credits, spring.

Groth, Wesner.

60, 61. *Lower Division Scientific German*.—Introduction to chemical German. Class work. Suitable outside reading. Vocabulary building. Prerequisite, Ger. 5, or 10 or 11; Ger. 3 Grade A or B, or combinations with consent of instructor. Three credits; autumn, winter; two credits, spring.

Wesner.

70. *German Literature in Translation*.—The best novels of the nineteenth century. A study of representative writers and of the forces that molded their work. Lectures, discussion, written reports. No knowledge of German required. Three credits, spring.

Eckelman.

*100. *Schiller*.

103. *Recent Writers*.—The best prose and dramatic literature adapted to rapid reading. Representative of German middle class and industrial life. Discussions, oral and written reports. Prerequisite, three years high school or eight credits second year work in college. Three credits; autumn.

Groth.

106. *German Literature in Translation*.—Goethe, the poet. An introductory study primarily of his lyrics, the approach to an understanding of the personality of the artist. Lectures, discussion, written reports. No knowledge of German required. Three credits, autumn.

Eckelman.

107. *German Literature in Translation*.—The contemporary short story, novel, and *Bildungsroman*. Helene Boehlau, L. Thoma and others; J. Wassermann, Thomas Mann. No knowledge of German required. Two credits; spring.

Groth.

108. *German Literature in Translation*.—The drama, primarily of the nineteenth century. The forerunners of Ibsen in Germany; Hauptmann; the post-war expressionism. A study of post-classical conceptions of the tragic. Lectures, discussion, written reports. No knowledge of German required. Two credits, winter.

Eckelman.

110. *Advanced Prose Composition*.—Grammar and syntax, translation

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and original composition, oral work, letter writing, themes, stage pronunciation. Prerequisite, three years high school or eight credits second year work. Three credits, winter. Meisnest.

114, 115, 116. *Upper Division Scientific German*.—Scientific essays, monographs, technical periodicals. Each student does private reading in his own field under guidance of the instructor and major professor. Conferences. Prerequisite, Ger. 5 and 10, 60 or 61, or three years in high school. Two or three credits a quarter; autumn, winter, spring.

Eckelman, Meisnest.

*118, 119, 120. *German Prose Reading*.

121. *Phonetics*.—General differences between German and English pronunciation; organs of speech; systematic study of the nature, production and classification of the German speech sounds; stage pronunciation; phonetic transcription; drill and practice in oral expression and reading. Important for teachers of German. Prerequisite, Ger. 3. Two credits; autumn. Meisnest.

*130-131-132. *German Institutions*.

133. *Modern Novels*.—From the best prose literature after 1880. Storm's *Schimmelreiter*, Frenssen, Otto Ernst and others. Literary topics, oral and written reports. Prerequisite, Ger. 100 or equivalent. For majors, minors and advanced students. Three credits; autumn. Eckelman.

136. *Modern Drama*.—Contemporaries of Ibsen in Germany. Wilbrandt's *Meister von Palmyra*. Hauptmann, Sudermann and others. Literary topics, oral and written work. Prerequisite as for Ger. 103. Three credits; winter. Eckelman.

*140. *Studies in German Literature*.

*142. *Lyrics and Ballads*.

151. *Lessing*.—Life and dramatic works. *Minna von Barnhelm*, *Nathan der Weise*. Discussion, reports, assigned topics. Prerequisite, as for Ger. 103. Two credits; spring. Ankele.

*153. *Goethe's Dramatic Works*.

180, 181, 182. *Nineteenth Century Literature*.—Seminar. The drama and novel to 1880. Kleist, Grillparzer, Hebbel, Ludwig, Raabe, Keller, Storm, C. F. Meyer. The Naturalistic Movement, Heimatkunst, the Post-War Expressionism. Lectures, special problems, term papers. Primarily for graduates. Three credits per quarter or six credits with consent of instructor; autumn, winter, spring. Eckelman.

COURSES FOR GRADUATES ONLY

*200-201-202. *Goethe's Lyrics and Letters*.

*203-204-205. *Storm and Stress Period*.

*206-207-208. *Romantic School*.

*220-221-222. *Inter-relations of German and English Literature*.

*250-251-252. *History of the German Language*.

*253-254-255. *Middle High German*.

*256-257-258. *Gothic*.

*259, 260, *261. *Old Saxon*.—Study of the dialect and the Old Saxon *Heliand*. Three credits; winter. Groth.

Teachers' Course in German.—See Edu. 160G.

*Not offered in 1928-1929.

COMPARATIVE PHILOLOGY

The following courses in Comparative Philology are available in the department of Scandinavian Languages and Literature.

- 190-191. *Introduction to the Science of Language*.—Two credits; autumn, winter. Vickner.
 192. *Life of Words*.—Two credits; spring. Vickner.

HISTORY

Denny Hall and Philosophy Hall

Professors Meany, Richardson, McMahon; Associate Professor Lucas; Assistant Professor Creer; Instructors Quinton, Dobie, Dahlin; Associate Buchanan; Professor Gowen and Assistant Professor Griffin of the Department of Oriental Studies; Associate Professor MacNair of the Department of Political Science.

Requirements of the Department

The University requirements in history may be satisfied by one of the following courses:

Medieval and Modern European History (1-2). It is desirable that this course be selected in fulfillment of the history requirements and that it be taken in the freshman year. It is repeated each quarter.

History of the United States (57-58-59). Primarily for sophomores.

English Political and Social History (5-6). Open without prerequisites to freshmen, sophomores and upperclassmen.

Ancient History (71-72-73). Open without prerequisites to sophomores and upperclassmen.

For a major at least fifty per cent of the credits in the department must be obtained in courses carrying upper division credit. Course 1-2 is required of all history majors.

It is recommended that all history majors shall take in excess of departmental requirements additional work in history and in certain related fields such as political and social science, modern foreign languages and literature, English and American literature, and philosophy. Selection should be made, under advice, among the following courses and sequences in correlated fields:

I. *Political and Social Sciences*.—Anthropology, (one of the following) 51, 101, 110, 185; Economics and Business Administration, 1, 103, 127; or 1, 61, 162; or 1, 160, 168; or Geology 10, followed by Economics 7; Political Science 1, 111; or 1, 112; or 151, 152, 153; Sociology 1, 150; Zoology 16.

II. *Language and Literature*.—English 134, to be taken in correlation with History 5-6 and to be followed by English 137; English 67, 68, 69; or 161, 162, 163; or 164, 165, 166, in correlation with American history courses.

Survey courses in foreign languages: French 118, 119, 120; German 106, 107, 108; Italian 184; Scandinavian 109, 110, 111; or 180, 181, 182; Oriental Studies 116, which correlates with ancient and medieval history courses.

Medieval Latin (Latin 153) is desirable for those who intend to study history for advanced professional purposes, and, in general, a reading knowledge of the basic language in the chosen field is indispensable for satisfactory graduate work.

III. *Philosophy*.—Philosophy 2 or 101-102-103.

Prospective teachers of history as a major subject in high schools who desire the recommendation of the department of history must become acquainted with the elementary facts requisite for the teaching of all courses in history, civil government, economics and sociology taught in the high schools of the state, and have specialized knowledge in their chosen fields. Courses in history, government, economics and sociology should be selected with this aim in view. The courses covering the fields of high school history are: History 1-2, 5-6, 57-58-59, 71-72-73. All of these courses in history are lower division courses and as majors in history are required to select at least fifty per cent of their work from courses carrying upper division credit, students unable to take these particular courses should select advanced courses in the same general fields.

Prospective high school teachers of history should bear in mind that since Oriental History is not as yet offered in the high schools such courses should be treated as electives rather than as major courses in preparation for the normal diploma or positions as teachers.

1-2. *Medieval and Modern European History*.—General survey from the Roman world empire of Augustus to our own times. Five credits a quarter; autumn, winter, spring.

Lucas, Creer, Quainton, Dobie, Buchanan.

The above course is repeated beginning with the winter quarter.

5-6. *English Political and Social History*.—Political, social economic and intellectual development of the English people from the Saxon conquest to the present time. Five credits a quarter. By special work under direction of the instructor upper division students may receive upper division credit. Autumn, winter. Richardson.

8. *Westward Movement in the U.S. to 1812*.—The advance of the frontier and its effect on American ideals from the colonial period to the war of 1812. Two credits; autumn. Dahln.

9. *Westward Movement in the U.S., 1812-1860*.—The frontier from the war of 1812 to the civil war. Two credits; winter. Dahln.

10. *The Agrarian Crusade in the U.S., 1860-1924*.—The agrarian movements for control, their causes and results. Two credits; spring. Dahln.

25. *Introduction to History of Asia*.—A resume of the main currents of human movement in the history of the continent of Asia. Five credits; autumn. Gowen.

57-58-59. *History of the United States*.—A general survey with emphasis on political and economic history. Not open to freshmen. Three credits a quarter; autumn, winter, spring. McMahan.

60. *Makers of the Nation*.—Period of Revolution and the Constitution. Two credits; autumn. Meany.

61. *Makers of the Nation*.—Period of the Monroe Doctrine and Broadway settlements. Two credits; winter. Meany.

62. *Makers of the Nation*.—Period of National Development. Two credits; spring. Meany.

71-72-73. *Ancient History*.—History of the ancient Mediterranean world, Greece and Rome. By special work under direction of the instructor, upper division students may receive upper division credit. Not open to freshmen. Three credits a quarter; autumn, winter, spring. Creer.

75-76. *History of China*.—Evolution of the Chinese people; cultural and institutional factors; and contemporary China with reference to these. In this course and in the History of Japan (Hist. 78-79) attention is paid to the history of Chosen (Korea). Prerequisite: ten credits in college history, or Oriental Studies 40-41. By special work under the direction of the instructor upper division students may receive upper division credit. Five credits; autumn, winter. MacNair.

78-79. *History of Japan*.—See above, Hist. 75-76. By special work under the direction of the instructor upper division students may receive upper division credit. Five credits; winter, spring. Griffin.

81. *England Since the Accession of George I*.—Construction of the British commonwealth, Imperial problems, internal economic and institutional developments, growth of democracy. Prerequisite, Hist. 1-2 or 5-6. By special work under the direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Five credits a quarter; spring. Quainton.

*85. *Medieval Civilization: The Dark Ages*.

86. *Medieval Civilization, 1000-1250*.—Thought, art, commerce, industry, religion and politics. By special work under the direction of the instructor upper division students may receive upper division credit. Not open to freshmen. Prerequisite, Hist. 1-2. Five credits; autumn. Lucas.

101. *Alexander the Great: His Empire and His Successors*.—Three credits; autumn. Creer.

*102. *Greek Federal Leagues: Their History and Institution*.

*103. *The Roman Republic*.

104. *The Roman Empire from Augustus to Justinian*.—Three credits; spring. Creer.

105-106-107. *English Constitutional History*.—Development of legal and governmental institutions of the English people to the present time. Valuable for students of political science and law as well as history. Prerequisite, Hist. 5-6, except for upper division students who are majoring in economics, sociology and political science, or who are taking 5-6. Open to pre-law sophomores who have taken 5-6 in freshman year. Pre-law sophomores who elect this course and have not taken 5-6 are required to take Hist. 108-109-110. Three credits a quarter; autumn, winter, spring. Richardson.

108-109-110. *English Political History, Pre-law*.—Open only to pre-law sophomores and majors in political science, economics and history who are taking Hist. 105-106-107. All pre-law sophomores who are taking 105-106-107 and who have not taken 5-6 or are not taking it, are required to take this course. Two credits a quarter; autumn, winter, spring. Richardson, Buchanan.

111. *Greek Political Institutions*.—Three credits; winter. Creer.

114. *The Renaissance*.—Thought, art, religion and politics from St. Thomas to Machiavelli. Prerequisite, Hist. 1-2 or 5-6. Five credits; winter. Lucas.

115. *The Reformation*.—The disruption of the Medieval Church through the rise of Anabaptism, Lutheranism, Calvinism, etc. Prerequisite, Hist. 1-2 or 5-6. Five credits; spring. Lucas.

117. *France from the Reformation to the French Revolution*.—Prerequisite Hist. 1-2; five credits; autumn. Quainton.

*Not offered in 1928-1929.

- *121-122-123. *Prussia and Northern Europe in the 17th and 18th Centuries.*
125. *Turkey and the Near East, 1453-1925.*—The Near Eastern question; the rise, expansion and decline of the Ottoman Empire; the awakening and development of the Balkan peoples. Prerequisite, Hist. 1-2. Five credits; spring. Quainton.
129. *The French Revolution and Napoleonic Era.*—Prerequisite, Hist. 1-2. Five credits; winter. Quainton.
130. *Europe, 1814-1870.*—Prerequisite, Hist. 1-2. Five credits; spring. Quainton.
131. *Europe Since 1870: The War and its Background.*—Historical background, fundamental causes and progressive development of events and issues in the world war. Five credits; spring. Richardson.
139. *The Southern Colonies.*—Open only to juniors, seniors, and graduates. Three credits; autumn. Dahlin.
140. *The New England Colonies.*—Open only to juniors, seniors, and graduates. Three credits; winter. Dahlin.
141. *American Revolution.*—Open only to juniors, seniors and graduates. Three credits; spring. Dahlin.
143. *History of the United States, 1789-1815.*—Open only to juniors, seniors, and graduates. Three credits; autumn. McMahon.
144. *History of the United States, 1815-1846.*—Open only to juniors, seniors, and graduates. Three credits; winter. McMahon.
145. *History of the United States, 1846-1860.*—Open only to juniors, seniors, and graduates. Three credits; spring. McMahon.
147. *History of the Civil War Period.*—Open only to juniors, seniors and graduates. Three credits; autumn. McMahon.
148. *History of the Reconstruction Period.*—Open only to juniors, seniors and graduates. Three credits; winter. McMahon.
149. *History of National Development.*—Development of the American nation from the close of the reconstruction period to the present time. Open to juniors, seniors, graduates. Five credits; spring. McMahon.
153. *The Pacific Rim.*—History of the countries bordering upon the Pacific Ocean with especial reference to recent changes. Open to juniors, seniors and graduates. Three credits; autumn. Meany.
154. *Spain in America.*—Rise and fall of Spanish power in America, and an outline of the history of the Spanish-American republics. Open to juniors, seniors and graduates. Three credits; winter. Meany.
155. *History of Canada.*—Canadian development to the present time. Open to juniors, seniors and graduates. Three credits; spring. Meany.
- 157-158-159. *History of American Diplomacy.*—American relations with foreign powers from colonial times to the present. Open to juniors, seniors and graduates. Two credits a quarter; autumn, winter, spring. Meany.
160. *History in the High School.*—The meaning, value, aims and place of history in the high school curriculum; historical problems. Prerequisite for Educ. 160H. Two credits; autumn. McMahon.

*Not offered in 1928-1929.

163-164-165. *Northwestern History*.—From the earliest voyage to the Pacific Northwest to the organization of the present form of government. Open to juniors, seniors and graduates. Two credits a quarter; autumn, winter, spring. Meany.

Teachers' Course in History.—See Education 160H.

COURSES FOR GRADUATES ONLY

201-202-203. *Methods of Historical Research and Criticism*.—Required of all graduate students majoring in history. Two credits; autumn, winter, spring. Creer.

207-208-209. *Problems and Sources of Greek and Roman History*.—Two to five credits a quarter; autumn, winter, spring. Creer.

211-212-213. *Research in European History (1300-1600)*.—Two to five credits. The student must first secure the approval of instructor. Lucas.

*215-216-217. *Seminar in English History*.

218-219-220. *Seminar in European History: Pre-war*.—Two credits a quarter. Richardson.

221-222-223. *Seminar in American History*.—Two credits a quarter; autumn, winter, spring. McMahan.

227-228-229. *Seminar in State History*.—Two credits a quarter; autumn, winter, spring. Meany.

HOME ECONOMICS

Home Economics Hall

Professor Raitt; Associate Professor Denny; Assistant Professors Payne, Bliss, Wait, Dresslar, Rivers

(For curricula in Home Economics see College of Science Bulletin.)

Food Selection and Preparation.—Courses 1, 4, 5, 9, 116, 120, 121, 183, 200.

Nutrition.—Courses 2, 104, 105-106, 107-108, 190, 191, 204, 205, 206.

Household Sanitation, Furnishings, Administration.—Courses 3, 43, 109, 143, 144, 145, 148, 203, 245.

Textiles and Clothing.—Courses 8, 25, 101, 102, 112-113, 127, 130, 131, 133, 135, 188, 207, 208, 209, 210, 211, 212.

Institutional Management.—Courses 122, 123, 124, 125.

Home Economics Education.—Courses 7, 111, 202, Educ. 160I, 160J.

1. *Cookery*.—General elective for non-home economics majors. Study of marketing, cookery, meal planning and service. Laboratory work to supplement Phys. Educ. 8 and 9. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Three credits; autumn.

*2. *Elements of Nutrition*.

*3. *Elements of Home Management*.

4. *Food: Selection and Preparation*.—Credit for cookery in high school exempts students from this course. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Three credits; autumn, spring. Bliss.

*Not offered in 1928-29.

5. *Food: Selection and Preparation.*—A study of food materials; composition, cost and market conditions as a basis for selection. Principles of food preparation and practice in cookery of such food materials as cereal products, vegetables, fruit, dairy products, meat and fish. Prerequisites, H.E. 4, Chem. 1-2, Physiology 7. Two lectures and three 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Five credits; autumn, winter. Dresslar.

7. *Home Economics Survey.*—Introduction to college work, opportunities offered by the University. The place of home economics, its history, objectives, professional opportunities. Related subjects. Personal accounts and budgets. Two credits; autumn, spring. Raitt.

8. *Clothing.*—Construction of garments requiring hand and machine sewing. Study of materials and design. Comparison with ready-made clothing. Credit for high school clothing exempts students from this course. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$2. Three credits; autumn. Payne.

9. *Nutrition for Hospital Students.*—Composition, principles underlying cookery; nutritive value of foods. Sanitation in relation to market condition and care of food after purchase. Open to student nurses only. Two lectures, one hour quiz and three 2-hour periods, recitation and laboratory practice. Lab. fee, \$6. Six credits; autumn, winter, spring. Dresslar.

25. *Textiles and Clothing.*—Identification and testing fabrics. Economics of the textile industry. Comparative values in all types of clothing. Hygiene of clothing. Care and renovation. Clothing budgets. Two lectures and three 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Five credits; autumn, winter, spring. Denny.

43. *Home Sanitation.*—Selection, care and use of equipment. Cleaning and renovation of the materials of the household. Laundering, relation to textiles, equipment, practice. Efficiency studies. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$2. Three credits; autumn, winter. Dresslar.

Foundations of Healthful Living as Related to the Principles of Nutrition.—(See P.E. 8, 9.) Principles of food and nutrition for various age groups. Sources of material and a study of the application of scientific principles. Autumn, winter, spring.

P.E. 8.—One lecture per week. One credit. Bliss.

P.E. 8, 9.—Two lectures per week. Two credits. Bliss.

101, 102. *Needlecraft.*—History of lace and needlecraft. Application of principles of design to problems in needlework related to dress and house furnishings. Prerequisites, H.E. 8 and P.S.D. 9. Two 2-hour periods, recitation and laboratory work. Lab. fee, \$2. Two credits a quarter; autumn, winter. Denny.

104. *Nutrition.*—A study of the value of each food material, essentials in the diet. Diet as a factor in the maintenance of health. Open to men only. Of special interest to house managers, pre-medical students, athletes, and men in the colleges of mines, forestry, fisheries, and the department of military training. Lecture and discussion. Two credits; spring. Wait.

105-106. *Nutrition: Elementary Dietetics.—Normal Human Nutrition and Diet for the Sick.*—For nurses, social service students and those wishing to obtain practical knowledge of nutrition as a part of a liberal education. Prerequisites, H.E. 4, Chem. 1-2, Physiology 7. Three lectures, two 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Five credits a quarter; winter, spring. Wait.

107-108. *Nutrition: Dietetics.—Principles of Human Nutrition.*—Nutritive value of foods, normal and specific physical requirements at different ages, metabolism, food habits, group feeding problems. For teachers of home economics and those who will enter professions related to food and nutrition. Prerequisites, H.E. 5, Chem. 135-136. Pre-medical students, chemistry and physiology majors may enroll with instructor's consent. Three lectures. Two 2-hour periods, recitation and laboratory work. Lab. fee, \$6. Five credits a quarter; autumn, winter. Wait.

109. *Elements of Home Economics.*—Service course for students training for social service. Consideration of household budgets, elements of nutrition and home sanitation. Five credits; winter. Raitt.

111. *Child Care and Development.*—Heredity and eugenics. The psychology of children of pre-school age; physical care; hygiene of clothing. Prerequisites, Psych. 1, Nursing 5, H.E. 25. Prerequisite or parallel, H.E. 105 or 107. A preferred elective for majors in home economics. Field work and excursions on Saturdays. Lab. fee, \$3. Three credits; spring. Kincaid, S. Smith, Soule, Denny.

112-113. *Clothing: Costume Design and Construction.*—Principles of design applied to dress and accessories. Practice in selection and construction. Prerequisite, H.E. 8 and P.S.D. 9. Five 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Five credits a quarter; autumn and winter; winter and spring, respectively. Payne.

116. *Food: Selection and Preparation.*—Continuation of H.E. 5. A study of batters and doughs, meal planning and table service. Two lectures and three 2-hour periods, laboratory practice and recitation. Lab. fee, \$6. Five credits; winter, spring. Dresslar.

120. *Food: Advanced Food Preparation.*—Finer processes in technique with emphasis upon esthetic values. Contribution of various countries to the art of cookery. Food customs and their significance. A survey of the literature of the subject. Laboratory practice, meal service and catering. Prerequisite, 116. Two 3-hour periods. Lab. fee, \$6. Three credits; autumn. Dresslar.

121. *Food: Large Quantity Cookery.*—Preparation of food in large quantities for cafeterias, tea rooms, dormitories, hospitals, and camps; institutional dietaries and menu planning. Prerequisite, H.E. 116. Laboratory practice. Two lectures, three 3-hour laboratory periods, recitation and laboratory work. Lab. fee, \$3. Five credits; spring. Lusby.

122. *Institutional Buying.*—A study of marketing, purchase of food materials for institutions, floor plans, equipment and supplies for food service rooms. Prerequisites, H.E. 5, 116, 106 or 108, 124. Three recitations. Three credits; winter. Lusby.

123. *Institutional Management.*—Problems of various types of institutions, relating to their organization and operation, relation to the state and community, employment of help. Three lectures. Prerequisites, H.E. 5, 116, 107-108, and 122. Three credits; spring. Raitt.

124. *Practice Work, I.*—Eight hours a week in University dining halls, under supervision of instructor. One hour conference a week. Two 4-hour periods or one full day should be arranged in the schedule. Prerequisites, H.E. 116, 106 or 108, Econ. 1. Three credits; autumn, spring. Lusby.

125. *Practice Work, II.*—Eight hours a week observation and practice in various institutions under supervision of the instructor. One hour conference a week. Two 4-hour periods or one full day should be arranged in the schedule. Prerequisites, H.E. 116, 106 or 108, Econ. 1, H.E. 124. Three credits; autumn, spring. Lusby.

127. *Non-Textiles*.—Merchandise from non-textile sources; paper, leather, rubber, fur, and metals. Raw materials, sources of supply, manufacture, methods of judging. Classification of stores' departmental stock. Three recitations. Lab. fee, \$3. Three credits; winter. Denny.

130, 131. *Clothing: Commercial Clothing Construction*.—Laboratory practice on a commercial basis. Study of trade conditions. Experience in costume shops. Prerequisites, H.E. 113, P.S.D. 9 and 169. Five 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Three credits a quarter; winter and spring. Payne.

133. *Clothing: Costume Design*.—Development of fashion from ancient times to the present with emphasis upon the best art periods. Adaptation to the present mode. Prerequisites, H.E. 113, P.S.D. 169. Three 2-hour periods, two lectures. Lab. fee, \$3. Five credits; spring. Payne.

135. *Millinery*.—Design, selection, practice in construction, renovating, trade methods and materials. Prerequisites, H.E. 8 or equivalent, P.S.D. 9. Three 2-hour laboratory periods, recitation and laboratory work. Lab. fee, \$3. Three credits; autumn. Payne.

143. *Home Furnishing*.—Application of structural art principles to choice and arrangement of household furnishings. Comparative costs. Prerequisite, P.S.D. 9. Two lectures and one 2-hour period, laboratory work, and Saturday excursions. Lab. fee, \$3. Three credits; winter, spring. Denny.

144-145. *Household Economics*.—Economics of the household, personal and household accounts and budgets. Organization of the household. Scientific management. Prerequisites, Econ. 1, Soc. 1, junior standing. Two credits a quarter; winter, spring. Raitt.

148. *Home Management House*.—Seniors live in home management house in groups of three for three weeks. They are responsible for organization of the group, financial management, records, housekeeping, hospitality and meals. Two credits; autumn, winter, spring. Bliss.

183. *Food: Experimental Cookery*.—Attention is given to acquiring correct technique in scientific investigation of problems in connection with food. Prerequisite, H.E. 116. Three 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Three credits; spring. Dresslar.

188. *Advanced Textiles*.—Historic art fabrics. Intensive study of a modern fabric. Methods of commercial testing. Prerequisite, H.E. 25, Econ. 1. Two 2-hour periods, recitation and laboratory work. Lab. fee, \$3. Two credits; autumn. Denny.

190. *Nutrition: Nutrition of Children*.—Work centers around the University Cooperative Child Nutrition Service. Consultation with physicians and instructor, follow-up case work in homes of the children and visits to institutions for child care. Prerequisites, H.E. 105 or 107. Two hours recitation, three hours laboratory period, three hours field work. Open to graduate and advanced undergraduate students. Lab. fee, \$2. Four credits; winter, spring. Wait.

191. *Nutrition: Dietotherapy*.—Considerations of particular dietary needs of the sick and convalescent. Relation of certain disorders to nutrition. The function of nutrition as a curative and preventive factor in disease. Prerequisite, H.E. 107. Open to graduates and advanced undergraduates. Three lectures and recitations, one laboratory period. Visits to hospitals. Lab. fee, \$4. Four to five credits; spring. Wait.

Teachers' Course in Home Economics.—See Educ. 160I, 160J.

COURSES FOR GRADUATES ONLY

200. *Special Food Problems*.—Investigation of local food products. Prerequisites, H.E. 5, 116, 107. Lab. fee, \$2 per credit hour. Three credits. Raitt.

202. *Seminar*.—The present status of home economics education. Prerequisites, 30 credits in home economics. Credits to be arranged; autumn, winter. Raitt.

*203. *Research*.

204, 205, 206. *Research in Nutrition*.—Animal experimentation on some special problem, or library research. Open to graduate students. Prerequisites, H.E. 107-108. Chemistry and Physiology majors may take this course with consent of instructor. Hours and credits to be arranged. Lab. fee, \$2 per hour credit; autumn, winter, spring. Wait.

207, 208, 209. *Research in Textiles*.—Prerequisites, H.E. 25, Econ. 1. Credit to be arranged. Lab. fee, \$1 per credit hour; autumn, winter, spring. Denny.

210, 211, 212. *Research in Costume Design*.—Prerequisites, H.E. 112-113, 133. Credit to be arranged; autumn, winter, spring. Payne.

245. *Research in Household Accounts and Budgets*.—Prerequisites, H.E. 144-145, Econ. 1. Credit to be arranged; autumn. Raitt.

JOURNALISM

Commerce Hall

Professor McKenzie; Associate Professor R. W. Jones; Laboratory Director Kennedy; Instructor Christian

1. *Journalism as a Profession*.—Survey of newspaper making in its various phases. For freshmen only. Lab. fee, \$1. One credit a quarter; autumn. McKenzie.

51. *News Writing*.—Practice in news writing; study of news sources. Not open to freshmen. Required in the sophomore year of pre-journalism majors. Lab. fee, \$2. Five credits; autumn, winter, spring. Christian.

61. *The Community Newspaper*.—Editorial, advertising, and circulation problems peculiar to the community weekly. Not open to freshmen. Required in the sophomore year of pre-journalism majors. Lab. fee, \$1. Three credits; spring. R. W. Jones.

90, 91, 92. *Current Events*.—Current state, national and world movements. One quarter required of majors in journalism. Lab. fee, \$1 a quarter. One credit a quarter; autumn, winter, spring. R. W. Jones, Christian.

101. *Reporting*.—Study of all types of stories covered by a reporter. Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, \$2. Five credits; autumn, winter, spring. Christian.

102. *Specialized Reporting*.—Literary and dramatic criticism; the sporting page; financial, marine and business reporting; political reporting; foreign correspondence. Required of seniors in journalism. Prerequisite, Jour. 101. Lab. fee, \$2. Five credits; spring. Staff.

104. *Newspaper Administration*.—Newspaper organization and management. Prerequisite, Jour. 51. Lab. fee, \$1. Two credits; spring. McKenzie.

* Not offered in 1928-1929.

115. *Elements of Publishing*.—Head styles; proof-reading; binding; engraving; press work; problems of production. Required of journalism majors. Lab. fee, \$2. Three credits; autumn. Kennedy.

120. *Copy Reading*.—Required of majors in journalism. Prerequisite, Journ. 101. Lab. fee, \$2. Five credits; autumn, winter, spring. Christian.

130. *Fundamentals of Advertising*.—Lab. fee, \$2. Five credits; autumn. R. W. Jones.

131. *Display Advertising*.—Prerequisite, Jour. 130. Lab. fee, \$2. Five credits; winter. R. W. Jones.

133. *Advertising Typography*.—Type families; application of type; advertising type units; type problems. Prerequisite, Jour. 115. Lab. fee, \$2. Five credits; spring. Kennedy.

135. *Publicity*.—General publicity methods. Lab. fee, \$1. Prerequisite, Jour. 51. Two credits; winter. Christian.

136. *Comparative Journalism*.—Prerequisite, Jour. 51. Lab. fee, \$2. Three credits; winter. Christian.

138. *History of American Journalism*.—Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, \$2. Five credits; spring. R. W. Jones.

140. *The Business Office*.—Simplified accounting for newspaper plants; business office management. Required of majors in journalism. Prerequisite, Jour. 115. Lab. fee, \$2. Five credits; winter. Kennedy.

145. *Law of the Press*.—Required of majors in journalism. Prerequisite, Jour. 51. Lab. fee, \$1. Three credits; spring. R. W. Jones.

150. *Editorial Writing*.—Required of majors in journalism. Prerequisite, Jour. 101 and 120. Lab. fee, \$1. Five credits; autumn, spring. R. W. Jones.

160. *Trade Journalism*.—Prerequisite, Jour. 51. Lab. fee, \$1. Five credits; winter. R. W. Jones.

170, 171, 172. *Magazine and Feature Writing*.—Practice in writing special newspaper and magazine articles; study of current magazines and newspaper supplements. Articles are graded according to their probable marketability. Lab. fee, \$2 a quarter. Two credits a quarter; autumn, winter, spring. McKenzie.

173. *The Short Story*.—Critical appreciation of the short story. Lab. fee, \$2. Three credits; autumn. McKenzie.

174, 175. *Short Story Writing*.—Prerequisite, Jour. 173. Lab. fee, \$2 a quarter. Three credits a quarter; winter, spring. McKenzie.

250. *Research in Journalism*.—Admission only by consent of the instructor. Three to five credits; autumn, winter, spring. Staff.

Teachers' Course in Journalism.—See Education 160K.

LAW

Commerce Hall

Professors Schweppe, Lantz, Goodner, Bissett, Ayer, O'Bryan, Nottelman, Martin; Lecturer Beardsley

FIRST YEAR

All first year courses required.

100. *Agency*.—Wambaugh's Cases, 2nd Ed. Five credits; spring. Ayer.
- 103-104. *Contracts*.—Corbin's Cases. Five credits per quarter; autumn and winter. Lantz.
- 106-107. *Criminal Law and Procedure*.—Derby's Cases, 2nd Ed., supplemented by Washington Criminal Code and Cases. Three credits per quarter; autumn and winter. O'Bryan.
- 108-109. *Pleading*.—Harker's Cases on Common Law Pleading, and Sunderland's Cases on Code Pleading, and Washington Code and Cases. Three and five credits respectively; winter and spring. Goodner.
115. *Property I.—Personal*.—Bigelow's Cases. Three credits; autumn. Bissett.
116. *Property II.—Real*.—Bigelow's Cases. Five credits; spring. Bissett.
- 117-118. *Torts*.—Ames' and Smith's Cases, Pound's Ed. Four credits per quarter; autumn and winter. Ayer.

SECOND YEAR

110. *Persons*.—Woodruff's Cases. Three credits; winter. Goodner.
121. *Legal Ethics*.—Costigan's Cases. Two credits; autumn. Goodner.
- 125-126. *Equity*.—Cook's Cases (one volume edition). Five credits per quarter; autumn and winter. Nottelman.
128. *Damages*.—Beale's Cases on Damages, supplemented by Washington cases. Three credits; spring. O'Bryan.
- 129, 130, 131. *Evidence*.—Hinton's Cases. Three credits per quarter; autumn, winter and spring. Schweppe.
- 134, 135, 136. *Legal Bibliography; Use of Law Books; and Brief-Making*.—Two credits per quarter; autumn, winter, spring. *Winter quarter required of all second-year students.* Beardsley.
137. *Negotiable Instruments*.—Huffcut's Cases. Three credits; winter. Bissett.
138. *Quasi-Contracts*.—Woodruff's Cases. Three credits; spring. Lantz.
139. *Property III*.—Aigler's Cases. Five credits; autumn. Bissett.
- 142-143. *Public Utilities*.—Smith and Dowling's Cases. Three credits per quarter; winter and spring. Nottelman.
- 146-147. *Sales*.—Woodward's Cases, 2nd Ed. Three credits per quarter; winter and spring. Ayer.
159. *Wills*.—Costigan's Cases. Three credits; autumn. Goodner.

179. *Partnership*.—Gilmore's Cases, supplemented by Washington Cases. Three credits; spring. O'Bryan.
181. *Landlord and Tenant*.—Washington Cases. Three credits; spring. Bissett.

THIRD YEAR

133. *Insurance*.—Vance's Cases. Three credits; winter. Lantz.
- *145. *Irrigation Law*.—Case book to be selected.
- *153. *Property IV*.—Kales' Cases on Future Interests.
- *156. *Bankruptcy*.—Holbrook and Aigler's Cases (2nd Ed.).
158. *Mining Law*.—Costigan's Cases. Three credits; winter. O'Bryan.
- †161. *Procedure IV*.—Procedure in civil actions in the Superior Court of Washington. Three credits; autumn. Goodner.
- †162. *Procedure V*.—Continuation of Procedure IV; and including trials by jury and appeals. Three credits; winter. Goodner.
- †163. *Procedure VI*.—Probate proceedings, covering administration of estates, probate of wills, appointment of guardians, etc. Four credits; spring. Goodner.
165. *Admiralty*.—Lord and Sprague's Cases. Three credits; autumn. Lantz.
168. *Conflict of Laws*.—Lorenzen's Cases, 2nd Ed. Five credits; spring. Lantz.
- 170, 171. *Constitutional Law*.—Hall's Cases. Three credits per quarter; autumn, winter. Scheweppe.
176. *Mortgages*.—Parks' Cases. Three credits; spring. Nottelman.
177. *Municipal Corporations*.—Tooke's Cases. Three credits; spring. O'Bryan.
183. *Suretyship*.—Hening's Cases. Three credits; spring. Nottelman.
- 184-185. *International Law*.—The general principles of international law as developed by custom and agreement, and as exhibited in decisions of international tribunals and municipal courts, diplomatic papers; treaties, conventions, in legislation, in the works of authoritative writers, and in the conduct of nations. Scott's Cases. (May receive political science credit.) Three credits a quarter; autumn, winter. Martin.
- 187-188. *Private Corporations*.—Richards' Cases, 2nd Ed. Three credits per quarter; autumn and winter. Ayer.
191. *Property V: Community*.—Bissett's Cases. Five credits; winter. Bissett.
193. *Trade Regulations*.—Oliphant's Cases. Three credits; spring. Lantz.
196. *Trusts*.—Costigan's Cases. Five credits; autumn. Nottelman.
- *197. *Administrative Law*.—Freund's Cases.

* Not offered in 1928-29.

† During the second and third years, five hours of class work in the Procedure courses and court room work and attendance outside of class hours may, in the discretion of the instructor, be required for the prescribed credits.

Note.—An average of fifteen hours or credits in each quarter is required, making a minimum total of 135 hours or credits for completion of the law course.

Students are limited to fifteen hours per quarter, except upon special permission of the dean.

LIBERAL ARTS

Denny Hall

Professor Cory

1. *Introduction to Modern Thought*.—Especially for lower division students, but open to all, and designed to help students to get their intellectual bearings. Required reading and lectures on the new theories of matter; the making of earth; the origin and nature of life; mind and behavior; utilitarian, ethical and aesthetic values. Five credits. Upper division students may obtain upper division credits on the basis of extra reading and conferences. Repeated autumn and spring. Cory.

11. *Introduction to the Study of the Fine Arts*.—Lectures on the nature of beauty and its relations to usefulness, goodness, and truth. Demonstrations and discussions of the techniques and provinces of dancing, music, architecture, sculpture, painting, poetry and drama. Five credits; winter, summer. Cory.

214, 215, 216, 217. *Studies in Realism, Literary and Philosophical*.—An attempt to develop from current theories a constructive view. Two to eight credits a quarter; autumn, winter, spring, summer. Cory.

LIBRARY SCIENCE

Library

Professors Henry, Smith; Assistant Professor Worden;
Instructors Alfonso, Putnam; Assistant Andrews

The following courses are open only to students registered in the Library School.

175, 184, 191. *Cataloging, Classification, Subject Headings*.—Lectures, recitations and laboratory. Four credits each; autumn and spring. Three credits; winter.

177, 185, 193. *Reference*.—These courses aim to give a working knowledge of important types of reference books. Lectures cover books and methods. Practical problems and work with government documents. Two credits a quarter; autumn, winter, spring. Smith

192. *Library Economy*.—Ordering, receiving, accessioning and mechanical preparation of books; elementary trade bibliography; correspondence and records. Two credits; winter. Putnam.

194. *Subject Bibliography*.—Preparation of bibliographic lists; lectures on sources and methods of work. Problems cover arrangement and form of entry. Two credits; spring. Smith.

186, 195. *Practice*.—Each student is expected to do 300 hours of practice or laboratory work under expert personal supervision. The practice work is given in both the University Library and the Seattle Public Library and consists of 15 hours per week for twenty weeks. Three to five credits, winter; three, spring.

178. *History of Books and Libraries*.—Lectures, readings and reports. Two credits; autumn. Henry.

187. *Library Organization and Extension*.—Legalization and organization of a general library system for city, county or state, as the unit of organization. Organization of various types of libraries with varying degrees of equipment. Two credits; winter. Henry.

179, 188, 196. *Book Selection*.—To cultivate taste and good judgment in evaluation of books through a study of the principles of book selection, annotation and book reviewing. Three credits; autumn. Two credits; winter and spring. Worden.

183. *Children's Literature; Story Telling*.—An elective course for students who wish to develop themselves as children's librarians. Students electing this will take the 3-hour course in Lib. Sci. 186. Two credits; winter. Andrews.

189. *Introduction to Children's Work*.—Two credits; autumn. Andrews.

197. *Library Administration and Library Literature*.—Lectures, readings and discussions on library legislation, local taxation, library budget, and all means of realizing the educational and social functions of the library. Reading and class discussion of literature of libraries and librarianship. Two credits; spring. Henry.

198. *Special Lectures by Active Librarians*.—Ten lectures, each on some vital problem of library service or administration, by persons selected because of their experience and success in dealing with the problems treated. One credit; spring.

199. *Advanced Children's Work*.—A special course for students specializing in this line and is to be elected in place of Lib. Sci. 194. Two credits; spring. Andrews.

MATHEMATICS

Philosophy Hall

Professors Moritz, Winger, Carpenter; Associate Professor Gavett; Assistant and Professors Neikirk, Ballantine, Zanstra, McFarlan, Mullemeister; Instructors Cramlet, Ingram, Jerbert.

Suggested courses of study will be found in the College of Science bulletin.

MINIMUM REQUIREMENTS OF THE DEPARTMENT

For a major in mathematics, 36 credits; including courses 4, 5, 6, 107, 108-109, plus six additional upper division courses.

For an academic minor in the School of Education, 20 credits; including courses 4, 5 and 6.

Candidates who are not majors in mathematics but wish to teach mathematics as a minor subject must have earned at least 20 credits in mathematics, including courses 4, 5 and 6, before receiving the recommendation of the department.

Major students in mathematics should, if possible, select their courses in mathematics in the following order: Math. 4, 5, 6, 107, 108, 109. In addition they should elect physics as their freshman science and take solid geometry (Math. 2) in their freshman year.

1. *Advanced Algebra*.—Algebra from quadratics on. Prerequisite, one year of high school algebra. Five credits; autumn, winter, spring.

2. *Solid Geometry*.—Prerequisite, one year of plane geometry. Five credits; autumn, winter, spring.

4. *Plane Trigonometry*.—For students in the Colleges of Liberal Arts, Science, Education, Fisheries, Law, and Pharmacy. Prerequisites, one and a half years of algebra and one year of plane geometry. Five credits; autumn. Winger, Mullemeister, Jerbert.

5. *College Algebra*.—Prerequisite, Math. 1 or one and one-half years high school algebra. Five credits; winter. Winger, Mullemeister, Jerbert.

6. *Analytic Geometry*.—Especially for students in the Colleges of Liberal Arts and Science. Prerequisites, Math. 1 and 4. Five credits; spring. Winger, Mullemeister, Jerbert.

11. *Theory of Investments*.—Primarily for commerce students. Interest and annuities; annuities, amortization, capitalization and depreciation, sinking funds, etc. Prerequisite, one year algebra, one year geometry. Five credits; autumn, winter, spring.

13. *Elements of Statistical Method*.—Fundamental methods of statistical investigation and interpretation, with applications to problems in social, natural, economic and business fields. Emphasis will be given to critical examination of data, defining of statistical units, properties and appropriate uses of the more common averages and various methods and co-efficients of comparison. Application of various calculating instruments demonstrated. Prerequisite, one year algebra, one year plane geometry. Fee, \$1. Five credits; each quarter. Gavett.

51. *Trigonometry*.—Primarily for engineering, mines and architecture students. Prerequisites, one and one-half years algebra and one year plane geometry. Four credits; autumn, winter, spring.

52. *College Algebra*.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 51. Four credits; autumn, winter, spring.

53. *Analytic Geometry*.—Primarily for engineering, mines and architecture students. Prerequisite, Math. 52. Four credits; each quarter.

54, 55, 56. *Mathematics for Architects*.—Advanced numerical and graphical methods and solution of plane triangles by trigonometric methods. Prerequisite, one and one-half years algebra, one year plane geometry. Three credits a quarter; autumn, winter, spring.

Neikirk, Cramlet, McFarlan.

61, 62, 63. *Calculus*.—Primarily for students in the Colleges of Engineering and Mines. Prerequisites, Math. 2 and 53. Three credits a quarter; autumn, winter, spring.

ADVANCED UNDERGRADUATES AND GRADUATES

101. *Advanced Trigonometry*.—Trigonometric series, DeMoivre's and Euler's theorems, hyperbolic functions. The elements of spherical trigonometry. Prerequisites, Math. 2 and 4 or 51. Two credits; autumn. Moritz.

102. *Advanced Analytical Geometry*.—Poles and polars, the general conic, abridged notation. Prerequisites, Math. 6 or 53. Two credits; winter. Carpenter.

103. *Solid Analytical Geometry*.—Fundamental theorems regarding the planes, lines, cones, cylinders, and quadric surfaces in general. Classification of quadric surfaces. Prerequisites, Math. 2 and 6 or 53. Two credits; spring. Moritz.

107, 108, 109. *Calculus*.—Elements of differential and integral calculus, primarily for students in the College of Science. Prerequisite, Math. 6. Five credits a quarter; autumn, winter, spring. Moritz, McFarlan.

114, 115. *Ordinary and Partial Differential Equations*.—With applications to problems in physics, chemistry, astronomy and engineering. Prerequisite, Math. 109 or 63. Three credits a quarter; autumn, winter. Carpenter, Ballantine.

117, 118, 119. *Projective Geometry*.—Classical theory through Pascal and Brianchon. Selected topics in involution, binary forms, algebraic invariants, the conic as a rational curve and a ternary form. To meet needs of teachers and professional mathematicians. Prerequisite, calculus, unless it is taken concurrently. Two credits a quarter; autumn, winter, spring.

Winger.

*161, 162, 163. *Analytical Mechanics*.

164, 165, 166. *Mathematics of Physics*.—For students of science, aiming to give the student sufficient mathematics to enable him to read the easier scientific papers in the current literature. It presupposes a thorough grasp of elementary physics and mathematics through the calculus. Differential equations should be taken before or concurrently. Three credits a quarter; autumn, winter, spring.

Neikirk.

Teachers' Course in Mathematics.—See Educ. 160M.

COURSES FOR GRADUATES ONLY

*201, 202, 203. *Differential Geometry*.

204, 205, 206. *Modern Algebra*.—Three credits; autumn, winter, spring.

Moritz, Ballantine.

*211, 212, 213. *Foundations of Mathematics*.

*214, 215, 216. *Modern Analysis*.

*221, 222, 223. *Higher Plane Curves*.

*224, 225, 226. *Real Variables*.

*227, 228, 229. *Theory of Numbers*.

*231, 232, 233. *Theory of Infinite Processes*.

235, 236, 237. *Metric Differential Geometry*.—Two credits; autumn, winter, spring.

Carpenter.

251, 252, 253. *Mathematical Journal and Research Club*.—(No credit.)

MECHANICAL ENGINEERING

Engineering Hall

Professors Eastwood, Wilson, Winslow; Assistant Professors McIntyre, McMinn, Edmonds.

70. *Elements of Gas Engines*.—Arranged for the students in fisheries and forestry. Two credits; winter.

Wilson.

71. *Mechanism*.—Operation of machines involving the transmission of forces and the production of determinate motions. Prerequisite, G.E. 13, Math. 52. Three credits; autumn, winter, spring.

McIntyre, McMinn, Edmonds, Winslow.

82. *Steam Engineering*.—Various steam apparatus used in modern steam plants; construction, use and reason for installation. Not open to freshmen. Prerequisite, G.E. 2. Three credits; autumn, winter, or spring.

Eastwood, McMinn, Edmonds, Winslow.

83. *Steam Engineering Laboratory*.—Calibrations of thermometer, gages and indicator springs; tests of the simple steam engine; one complete engine and boiler test with report. Preceded or accompanied by M.E. 82. Lab. fee, \$2. Three credits; autumn, winter, spring.

Wilson, McIntyre.

*Not offered in 1928-1929.

107. *Heating and Ventilation*.—An abridged course for students in the department of architecture. Prerequisite, junior standing. Two credits; spring. Eastwood.

111, 112. *Machine Design*.—Design of machine details. Prerequisite, C.E. 132. Three credits a quarter; autumn, winter, spring. McIntyre, Edmonds, McMinn.

113, 114. *Machine Design*.—Advanced problems in machine design. Prerequisites, M.E. 112, C.E. 132. Two credits a quarter; autumn and winter. Winslow.

115. *Steam Engine Design*.—Computations and drawings for the design of a steam engine. Prerequisite, M.E. 114, M.E. 124. Three credits; spring. Winslow.

123, 124. *Engines and Boilers*.—Generation and use of steam in various types of boilers and engines. Prerequisite, M.E. 83, 112, also preceded or accompanied by C.E. 131. Three credits a quarter; autumn, winter. Winslow.

140. *Time Study and Job Analysis*.—Job standardizing in modern industry. Personnel requirements and training. Analyzing job. Computing, checking, summarizing, explaining, applying, and perpetuating standards. Five credits; autumn and spring. McIntyre.

151, 152, 153. *Experimental Engineering*.—Continuation of M.E. 83, involving more extended and complete investigations. Prerequisite, M.E. 83. Lab. fee, \$2. Three credits a quarter; autumn, winter, spring. Wilson.

167. *Engineering Materials*.—Properties of various materials used in engineering construction, including iron, steel, reinforced concrete and timber. Recitation and laboratory. Prerequisite, C.E. 132. Junior mechanical and electrical engineers. Lab. fee, \$2. Three credits; autumn, winter and spring. Winslow, McMinn.

179. *Steam Turbines*.—Theory, construction and design of steam turbines. Prerequisite, M.E. 82. Three credits; spring. Eastwood

182. *Heating and Ventilation*.—Various systems of heating and ventilating methods with designs. Prerequisite, M.E. 82. Three credits; autumn, winter. Eastwood.

183. *Thermodynamics and Refrigeration*.—Fundamental principles underlying the transformation of heat into work, with special application to engineering. Prerequisite, M.E. 82, junior standing. Five credits; autumn. Eastwood.

184. *Power Plants*.—Design of steam power plants, involving their location, buildings, prime movers, and power transmission. Prerequisite, M. E. 83, 123. Three credits; spring. Winslow.

185, **186, **187. *Naval Architecture*.—Theory of naval architecture, as pertains to displacement, stability and strength, and the usual calculations involved in construction. Not open to freshmen. Three credits a quarter; spring, autumn, winter. Eastwood.

**188, **189. *Ship Design*.—Application of the principles of naval architecture to the design of a ship for a definite purpose. Prerequisite, M.E. 186. Two credits a quarter; autumn and winter. Eastwood

**190. *Marine Engineering*.—Power plant equipment of ships, includ-

**Will be offered if a sufficient number of students elect the course.

ing boilers, engines, auxiliaries and propellers. Prerequisite, M.E. 82, 185. Three credits; spring. Eastwood.

191-192-193. *Research*.—Two to five credits. Eastwood.

195. *Thesis*.—Investigation, design or experiment under direction of the professor in charge. Two to five credits; senior year. Eastwood.

198. *Gas Engineering*.—Development of gas engineering; stationary, marine, automobile and airplane motors, and gas producer plants. Prerequisite, M.E. 82. Three credits; autumn, winter, spring. Wilson.

199. *Gas Engine Design*.—Calculations and plans for the design of a given type of motor. Prerequisite, M.E. 198. Three credits; spring. Wilson.

COURSES FOR GRADUATES ONLY

211-212-213. *Research*.—Autumn, winter, spring. Three credits a quarter. Eastwood.

ENGINEERING ENGLISH

For courses in Engineering English, see Department of English, courses 7, 100, 102, 103.

METALLURGY

Mines Hall

See Mining, Metallurgy and Ceramics.

MILITARY SCIENCE AND TACTICS

The Armory

Colonel Matthews, Major Greene, Major Muhlenberg, Major de Rohan, Captain Priest, Captain Meredith, Captain Williams, Lieut. Luce, Lieut. Hildebrand, Lieut. Young, Warrant Officer White, Warrant Officer Moller, Master Sergeant Lang, Staff Sergeants Compton, Bailey; Sergeants Beckett, Collins; Privates First Class Freeman, Whitchurch.

The instruction of the first two years, together with that provided for the third and fourth years, constitutes the courses prescribed by the war department for institutional units of the Reserve Officers' Training Corps. The advanced courses, those of the third and fourth years, are open to students who have completed the first two years—basic course—of instruction and training.

The University has requested that it be given the government commutation for uniforms in this department. This commutation consists of \$7.15 per student per year for two years. A University uniform has been adopted that will cost \$30, but which, after deducting the commutation for two years, will net the student \$15.70. The uniform is a substantial eighteen-ounce blue serge, consisting of cap, coat and trousers. With ordinary care it will serve the student for two years of school work.

Each student registering in this department will be required to provide himself with this uniform, which will be worn at drill with a pair of black shoes of army last, with white shirt, turn-down collar and black four-in-hand tie. The uniform is the personal property of the student. On completion of the first year's work, he will be reimbursed to the extent of \$7.15, and on completion of the second year's work, with an additional \$7.15.

FIRST YEAR

1-2-3. *Basic Infantry, Air Corps*.—Marksmanship, military courtesy, military hygiene and first aid, physical drill, and command and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

4-5-6. *Basic Coast Artillery*.—Military policy, U.S.; military courtesy and discipline; artillery drill, infantry drill, physical training, ceremonies and gunnery instruction. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

11-12-13. *Band*.—Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

SECOND YEAR

51-52-53. *Basic Infantry*.—Scouting and patrolling, musketry, interior guard duty, automatic rifle, physical drill, and command and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

61-62-63. *Basic Coast Artillery*.—Military policy, U.S.; military courtesy and discipline; gunnery instruction to include fire control and position finding; artillery materiel and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

71-72-73. *Basic Air Corps*.—General air corps subjects, air corps weapons, communications, field engineering and leadership. Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

81-82-83. *Band*.—Five hours a week. One and two-thirds credits a quarter; autumn, winter, spring.

THIRD YEAR

101. *Advanced Infantry*.—Military field engineering, combat principles, and command and leadership. One and two-thirds credits; autumn.

102. *Advanced Infantry*.—Machine guns, and command and leadership. One and two-thirds credits; winter.

103. *Advanced Infantry*.—Machine guns, military sketching, and command and leadership. One and two-thirds credits; spring.

104. *Advanced Infantry*.—Military field engineering; combat principles of the defense, elements of military field engineering with a study of trenches, obstacles, shelters, etc. Combat principles of the squad and section, includes the service of security and attack. Command and leadership. Primarily for students majoring in military science. Three credits; autumn.

105. *Advanced Infantry*.—Machine guns; technique of fire, direct and indirect laying, machine gun characteristics, organization, elementary and advanced drill, machine gun in attack and defense, exercises with weapons and instruments, range and target exercises. Command and leadership. Primarily for students majoring in military science. Three credits; winter.

106. *Advanced Infantry*.—Machine guns: continuation of Mil. Sci. 105. Military sketching: classification of military sketches, scales, instruments, conventional signs, lettering and titles, contours, equipment, traversing elevations, practical work in making route and area sketches. Command and leadership. Primarily for students majoring in military science. Three credits; spring.

111. *Advanced Coast Artillery*.—Orientation and leadership. One and two-thirds credits; autumn.

112. *Advanced Coast Artillery*.—Gunnery and leadership. One and two-thirds credits; winter.

113. *Advanced Coast Artillery*.—Gunnery and leadership. One and two-thirds credits; spring.

114. *Advanced Coast Artillery*.—Orientation. Reconnaissance of battery positions. Determination of coordinates and orienting lines. Meridian determinations. Transit and calculations. Leadership. Primarily for students majoring in military science. Three credits; autumn.

115. *Advanced Coast Artillery*.—Gunnery. Study of trajectory and effects of velocity, air density, temperature, altitude, problems in computation of firing data for 155 G.P.F. and seacoast artillery. Leadership. Primarily for students majoring in military science. Three credits; winter.

116. *Advanced Coast Artillery*.—Gunnery. Observation of fire. Methods of fire adjustment for fixed and mobile heavy artillery. Problems in fire adjustment. Conduct of actual heavy artillery fire, 155 G.P.F. and 3-inch anti-aircraft guns at Fort Worden. Primarily for students majoring in military science. Three credits; spring.

121. *Advanced Air Corps*.—Communication, liaison, aeronautical engines and leadership. One and two-thirds credits; autumn.

122. *Advanced Air Corps*.—Communications, liaison, aeronautical engines and leadership. One and two-thirds credits; winter.

123. *Advanced Air Corps*.—Aerial photography, minor tactics, aeronautical engines, administration and leadership. One and two-thirds credits; spring.

124. *Advanced Air Corps*.—Communications: Radio telegraphy and telephony; operation of instruments and ground panels; use of Very pistols, flares, and reflectors in liaison. Aeronautical engines; theoretical instruction on the Liberty 12 aircraft engine, including ignition and carburetion. Leadership. Primarily for students majoring in military science. Three credits; autumn.

125. *Advanced Air Corps*.—Communications: Radio telegraphy and telephony. Liaison with artillery, work of the Observation Squadron and Observer, reconnaissance, adjustment of fire, work with the infantry and cavalry. Theoretical instruction on rotary and radial engines, the Le Rhone engine. Leadership. Primarily for students majoring in military science. Three credits; winter.

126. *Advanced Air Corps*.—Aerial photography, aerial photographs, and their interpretation, types of cameras used and instruction in their care and operation. A brief study in minor tactics. Practical instruction on the Liberty 12 aircraft engine. General administration. Leadership. Primarily for students majoring in military science. Three credits; spring.

FOURTH YEAR

151. *Advanced Infantry*.—Administration, military law, military history and National Defense Act. Command and leadership. One and two-thirds credits; autumn.

152. *Advanced Infantry*.—Infantry weapons (37 mm. gun and 3-inch trench mortar). Command and leadership. One and two-thirds credits; winter.

153. *Advanced Infantry*.—Combat principles. Command and leadership. One and two-thirds credits; spring.

154. *Advanced Infantry*.—Administration: lectures on practical administration of a company including interior economy and management, preparation of rosters, reports, correspondence and orders. Military law; military history and National Defense Act; military resources and military strength of the United States, the state of national defense for war at critical periods, the cost of American wars, the traditional policy of the United States. Command and leadership. Primarily for students majoring in military science. Three credits; autumn.

155. *Advanced Infantry*.—Infantry weapons: 37 mm. gun and 3-inch trench mortar, including nomenclature, use, care and repair, mechanics of weapons, practical exercises with weapons and instruments, range and target exercises, organization, communication, transportation, and combat principles of the offense and defense, special operations. Combat principles: combat principles of the platoon and company in attack, night operations, security on the march and at rest. Estimates of the situation, orders, messages and problems. Command and leadership. Primarily for students majoring in military science. Three credits; winter.

156. *Advanced Infantry*.—Combat principles. Continuation of Mil. Sci. 155. Military law and rules of land warfare: military jurisdiction, courts-martial, witnesses and depositions, evidence, procedure, records of trial, articles of war, charges and specifications. Command and leadership. Primarily for students majoring in military science. Three credits; spring.

157. *Military Thesis on Infantry*.—Five credits; autumn, winter, spring.

161. *Advanced Coast Artillery*.—Administration, military law, artillery materiel and leadership. One and two-thirds credits; autumn.

162. *Advanced Coast Artillery*.—Tactical employment of heavy artillery. Administration, field engineering and leadership. One and two-thirds credits; winter.

163. *Advanced Coast Artillery*.—Motor mechanics and leadership. One and two-thirds credits; spring.

164. *Advanced Coast Artillery*.—Administration, interior economy and management of batteries, messing, reports, records and military correspondence. Military law and procedure of courts-martial. Railway, heavy tractor, anti-aircraft and trench artillery—their development and mission. Leadership. Primarily for students majoring in military science. Three credits; autumn.

165. *Advanced Coast Artillery*.—Tactical employment of heavy artillery, selection of positions, role of artillery in action. Field engineering for artillery, uses, necessity and construction methods. Leadership. Primarily for students majoring in military science. Three credits; winter.

166. *Advanced Coast Artillery*.—Motor mechanics for heavy duty trucks, tractors and self-propelled heavy artillery. Principles of internal combustion engine and accessories in artillery use. Leadership. Primarily for students majoring in military science. Three credits; spring.

167. *Military Thesis on Coast Artillery*.—Five credits; autumn, winter, spring.

171. *Advanced Air Corps*.—Military law, aerial gunnery, navigation, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; autumn.

172. *Advanced Air Corps.*—Bombardment equipment, aeronautical engines, airplanes, rigging, and leadership. One and two-thirds credits; winter.

173. *Advanced Air Corps.*—Airplanes, air corps organization, aeronautical engines and leadership. One and two-thirds credits; spring.

174. *Advanced Air Corps.*—Military law, aerial gunnery; use of the weapon in the air; use of the camera gun. Theoretical instruction in navigation, meteorology and its relation to aerial navigation. Aeronautical engines; theoretical instruction on the Hispano Suiza engines. Leadership. Primarily for students majoring in military science. Three credits; autumn.

175. *Advanced Air Corps.*—Theoretical and practical study of bombardment equipment. Aeronautical engines; practical work on the Liberty 12 aircraft engine, study of fusillade, wing surfaces, tail surfaces, control surfaces, struts, cones, and general equipment, preliminary instruction in rigging. Leadership. Primarily for students majoring in military science. Three credits; winter.

176. *Advanced Air Corps.*—Airplanes: practical work on dismantling and assembling of airplanes, a study of the organization table of the Air Corps. Aeronautical engines: practical instruction on the Hispano Suiza 8. Leadership. Primarily for students majoring in military science. Three credits; spring.

177. *Military Thesis on Air Corps.*—Five credits; autumn, winter, spring.

MINING, METALLURGY AND CERAMICS

Mines Laboratory

*Professors Roberts, Daniels, Wilson; Assistant Professor Corey;
Lecturer Powell; Assistants Schoning, Herdlick.*

I. MINING

NOTE.—Mining, metallurgical, geological, or ceramic experience. Each student is required to spend at least one summer vacation, or its equivalent, in practical contact with the industry, and to submit upon his return to college a detailed report of his observations. Work of this nature offers an opportunity to secure data and material for the graduation thesis.

51. *Elements of Mining.*—The field of mining, considering prospecting, boring, drilling, explosives, rock breaking, timbering, methods of development and working, transportation and drainage. Prerequisite, sophomore standing. Three recitations. Three credits; autumn. Daniels.

52. *Elements of Mining.*—Continuation of Min. 51, giving consideration to machinery and methods of working metal, coal, and placer mines, quarries, and clay deposits. Prerequisite, Min. 51. Two recitations, and one laboratory period. Three credits; winter. Daniels.

101. *Milling.*—Preliminary course, designed to familiarize all students in the college with the principles and uses of the various types of crushing, sampling, concentrating and washing machinery in the Mines Laboratory. Prerequisite, junior standing. Two recitations and one laboratory period. Lab. fee, \$5. Three credits; autumn. Roberts.

103. *Mine Rescue Training.*—Twenty-five hours of instruction. Practice in the care and use of oxygen rescue apparatus, smokeroom training, and first-aid-to-the-injured work in the U.S. Bureau of Mines Safety Station. A government certificate is given on completion of the course. Required of all students in the College of Mines. One credit; winter. Daniels.

106. *Mining Excursion*.—A five days' trip, taken in the spring of the junior year to a neighboring mining region; detailed examinations of mining and metallurgical industries. Expense is approximately \$25. One credit; spring. Roberts, Daniels.

107. *Mining Excursion*.—A five days' trip, taken in the spring of the senior year, similar to Min. 106. One credit; spring. Roberts, Daniels.

122. *Coal Mining Methods*.—Prospecting and development. Detailed study is made of a nearby mine. Prerequisite, Min. 51. Three recitations. Three credits; winter. Daniels.

151. *Mining Engineering*.—Lectures on exploration, mine development, power generation, air compression, hoisting and transportation. Practice with air compressors, machine drills, and mine equipment in laboratories and local plants. Prerequisite, senior standing. Two recitations, one laboratory period. Lab. fee, \$5. Three credits; autumn. Roberts.

152. *Ore Dressing*.—Certain branches of ore dressing, mill tests of ores checked by assays. Prerequisite, senior standing. Three recitations and two laboratory periods. Lab. fee, \$10. Five credits, spring. Roberts.

162. *Cost of Mining*.—Mining methods and costs. Prerequisite, senior standing. Three recitations and one laboratory period. Four credits; winter. Roberts.

*163. *Mine Operation*.

170. *Coal Mining Machinery*.—Coal cutting machines, mine locomotives, fans, hoists, and pumps with especial reference to application to coal mining. Prerequisite, senior standing. Three recitations. Three credits; autumn. Daniels.

171. *Mine Gases and Ventilation*.—Composition and properties of mine gases, methods of testing; lighting of mines; principles of ventilation; ventilating machinery. Prerequisite, Min. 122. Three recitations. Three credits; winter. Daniels.

176. *Coal Preparation*.—Methods of preparing coal for market, together with laboratory tests and runs on various coals, to determine best methods of preparation. Prerequisites, Min. 101, Met. 103. Two recitations and two 4-hr. laboratory periods. Lab. fee, \$10. Five credits; winter. Daniels.

178. *Coal Preparation Machinery*.—Machines and equipment used in tipples and washeries for the screening and washing of coal. Prerequisite, Min. 176. Two recitations. Two credits; spring. Daniels.

182. *Mine Management*.—Organization and administration of engineering plants, the keeping and interpretation of cost accounts, the efficiency of labor and methods, the financial, legal and social aspects of engineering operation. Prerequisite, senior standing. Three recitations. Three credits; spring. Daniels.

191, 192, 193, 194. *Thesis*.—Preparation of a graduation thesis in mining, metallurgy or ceramics. A fee of \$5 a quarter is required to cover cost of materials. Completed thesis must be submitted at least one month before graduation. Prerequisite, senior standing. Total five credits allowed for thesis. Hours and credits to be arranged; autumn, winter, spring, summer. Roberts, Daniels, Corey, Wilson.

*Not offered in 1928-29.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Seminar*.—Lectures and discussions by Bureau of Mines staff, College of Mines faculty and fellows. Required of Bureau of Mines fellowship holders. Prerequisite, graduate standing. One credit; autumn, winter, spring. Staff.

211, 212, 213, 214. *Graduate Thesis*.—Preparation of a thesis in mining, metallurgy, or ceramics. Prerequisite, graduate standing. A fee will be required if the work involves the use of laboratory materials or equipment. Hours and credits to be arranged. Total nine credits allowed for thesis. Autumn, winter, spring, summer. Roberts, Daniels, Corey, Wilson.

221, 222, 223. *Graduate Metal Mining*.—Studies in metal mining or in ore dressing. Prerequisite, graduate standing. Hours and credits to be arranged. Roberts.

251, 252, 253. *Graduate Coal Mining*.—Studies in coal mining or in the preparation or uses of coal. Prerequisite, graduate standing. Hours and credits to be arranged. Daniels.

II. MINING AND METALLURGICAL RESEARCH

The Technical Staff of the United States Bureau of Mines Northwest Experiment Station in Co-operation with the Instructors in the College of Mines.

Class work is directed by members of the instructional staff of the University. Research work is under joint direction of the United States Bureau of Mines and the College of Mines. Subjects of research relate to the mining and metallurgical industries of the state and adjacent regions.

During the coming year investigations are contemplated in the following subjects:

1. The preparation and utilization of coal.
2. Clay washing and utilization.

III. METALLURGY

101. *Fire Assaying*.—Testing of reagents, crushing, sampling and assaying of ores, furnace and mill products. Prerequisite, Chem. 111. One recitation and three laboratory periods. Lab. fee, \$20. Five credits; autumn. Corey.

102. *General Metallurgy*.—Properties of metals and alloys, fuels, refractory materials; furnaces; the extraction of the common metals from their ores. Visits to smelters. Prerequisite, junior standing. Three recitations and one 4-hour laboratory period. Lab. fee, \$10. Five credits; spring. Corey.

103. *Fuels*.—A study of all types of fuels now used in industry and a consideration of the most effective utilization of the country's present supplies. Consideration of future development of fuels. Laboratory work in analysis. Prerequisite, junior standing. Three recitations and one laboratory period. Lab. fee, \$5. Four credits, winter. Daniels.

104. *Non-ferrous Metallurgy*.—Metallurgy of copper, lead, gold and silver, especially the methods of roasting, smelting, lixivation and refining. Prerequisite, Met. 102. Five recitations. Five credits; autumn. Corey.

153. *Wet Assaying*.—Technical methods for the determination of cop-

per, lead, zinc, etc., in ores and furnace products. For students in ceramics, analysis of clays and ceramic products. Prerequisites, Met. 102, Chem. 111. One recitation and two laboratory periods. Lab. fee, \$12. Three credits; winter. Corey.

155. *Iron and Steel*.—Metallurgy and manufacture of commercial iron and steel; especial reference to their properties and uses in engineering work. Prerequisite, junior standing. Three recitations. Three credits; autumn. Daniels.

160. *Metallurgical Analysis*.—Technical methods of analysis of slags and industrial products. Prerequisite, Met. 153. Two laboratory periods. Lab. fee, \$12. Two credits; spring. Corey.

162. *Metallography*.—Constitution and microstructure of metals and alloys, especially iron and steel. Prerequisite, senior standing. Two recitations. Two credits; autumn. Corey.

163. *Metallography*.—Preparation and study of metal sections, photomicrography and the use of the microscope in testing industrial alloys. One recitation and two laboratory periods. Prerequisite, Met. 162. Lab. fee, \$5. Three credits; winter. Corey.

165. *Metallurgy Calculations*.—Physical chemistry of the metallurgist, slag calculations, etc., illustrated by figures quoted from the present practice at a number of smelting plants. Prerequisite, senior standing. Three recitations. Three credits; winter. Corey.

166. *Electrometallurgy*.—Study of methods and practice with special consideration of the possibilities of electrometallurgical industries in the Pacific Northwest. Prerequisite, senior or graduate standing. Three credits; spring. Corey.

221, 222, 223. *Graduate Metallurgy*.—Studies in metallurgy. Prerequisite, graduate standing. Hours and credits to be arranged. Corey.

IV. CERAMICS

90. *Ceramic Materials*.—Origin, occurrence, physical properties, and preparation of clays, feldspar, limestone, magnesite, silica and other materials used in the ceramic industry. Prerequisite, sophomore standing in engineering or mining. Three lectures or recitations. Three credits; spring. Wilson.

100. *Ceramic Products*.—Principles governing the shaping of structural, refractory and fine ceramic wares. Prerequisite, Cer. 90. Three lectures. Three credits; autumn. Wilson.

101. *Drying and Burning*.—Principles of drying and burning; the operation and control of commercial dryers and kilns. Prerequisite, Cer. 100. Three lectures and recitations. Three credits; winter. Wilson.

102. *Ceramic Decorations*.—Preparation and characteristics of vapor, natural clay slip, raw lead, bristol, terra cotta, porcelain and fritted glazes, bright and mat, with methods of coloring. Prerequisite, Cer. 101. Three lectures and recitations. Three credits; spring. Wilson.

104, 105. *Ceramic Calculations*.—Chemistry and physics of preparing, drying, and firing ceramic materials. Problems involved in standard methods of testing clay. The blending of raw materials for ceramic bodies and glazes. Prerequisite, Cer. 90. Three recitations. Three credits; autumn and winter. Wilson.

110. *Ceramic Physical-Chemical Measurements.*—Testing of clays and other ceramic materials. Determination of fineness of grain, shrinkage, porosity and specific gravity; plasticity, bonding power, vitrification and fusion, chemical purification and action of colloids. Prerequisite, Cer. 105. Lab. fee, \$5 a quarter. Two laboratory periods. Two credits; spring.

Wilson.

121, 122, 123. *Ceramic Products Laboratory.*—Laboratory production of structural wares, stoneware, yellow ware, porcelain and refractories. Blending, molding, drying, firing and glazing. Prerequisite, Cer. 101. Lab. fee, \$10 a quarter. Three laboratory periods and two recitations. Five credits a quarter; autumn, winter, spring.

Wilson.

**125, 126, 127. *Ceramic Plant Design.*

**131, 132, 133. *General Ceramics.*—Occurrence, winning and preparation of materials used in ceramics. Process used in preparation of raw materials, shaping, drying and firing of ceramic products. Three lectures or recitations. Three credits; autumn, winter and spring.

**140. *Pottery.*—Occurrence, winning and preparation of materials used in pottery manufacture. Processes used in moulding, drying, firing, glazing, and decorating of pottery. Two lectures and recitations. Two credits; autumn.

Wilson.

**150. *Lime, Plasters and Cements.*—Raw materials, manufacture and testing of lime, calcined gypsum, sand-lime brick, and Portland cement. Prerequisite, Chem. 23. Three lectures and recitations. Three credits; winter.

Wilson.

**160. *Glass Technology.*—Theory and factory practice of glass manufacture. Prerequisite, Cer. 105. Two lectures and recitations. Two credits; autumn.

Wilson

**170. *Metal Enamels.*—Theory and practice of metal enameling. Prerequisite, Cer. 105. Two lectures and recitations. Two credits; autumn.

Wilson.

180. *Refractories.*—Origin, occurrence and physical properties of fire-clays and other refractory materials. The manufacturing problems of fire-clay, silica, magnesia, chromite brick, electric furnace products and special refractories. Prerequisite, junior standing. Three lectures or recitations. Three credits; winter.

221, 222, 223. *Graduate Ceramics.*—Studies of the ceramic resources of the Pacific Northwest, or in the manufacture of clay products. Prerequisite, graduate standing. Hours and credits to be arranged.

Wilson.

MUSIC

Music Building

Professors Glen, Rosen, Venino, Wood; *Associate Professor* Newenham; *Assistant Professors* Van Ogle, Lawrence, McKay; *Associates* Bogardus, L. Venino, Lynch, Mabon; *Instructors* Neilson, Adams, Kirchner, Schumacher, Allen; *Assistants* Oliver, Canfield, Bamford, Burns.

It will be noted that the courses in music are not hyphenated, but students who have not taken the first quarter's work in courses that continue longer than one quarter, may enter courses subsequent to the first quarter only with the consent of the instructor in charge.

**Will be offered if a sufficient number of students elect the course.

All graduates in public school music should have at least two years of voice training.

Students majoring in public school music should consult early with their adviser concerning the selection of an appropriate minor.

6. *Music History*.—Progress of musical development from the primitive period to the modern. This course is more valuable if preceded by a course in appreciation. Five credits; autumn, winter, spring. Neilson.

9. *Sight Singing*.—For beginners. Five credits; autumn, winter, spring. Newenham, Bamford.

‡10, 11, 12. *Choral Study*.—The University chorus provides opportunity for those qualified to study the more serious as well as the lighter forms of choral composition. Candidates must satisfy the director as to the extent of their musical ability. Fee, \$1 for 10, 11. One credit a quarter; autumn, winter, spring. These courses may carry upper division credit in cases where the student has previously been enrolled in music courses for at least two years. Glen, Lawrence.

13. *Music Appreciation*.—To aid music students to become intelligent and discriminating listeners. Musical masterpieces, both instrumental and vocal, of different periods and forms, will be presented and discussed. Required of all music majors. Five credits; autumn, winter, spring.

16. *Ear Training and Melody Writing*.—Principles of melodic invention and training in hearing accurately; study in notation. Five credits; autumn, winter, spring. Newenham, Bamford.

18, 19, 20. *Applied Music*.—(Freshman.)

68, 69, 70. *Applied Music*.—(Sophomore.)

118, 119, 120. *Applied Music*.—(Junior.)

168, 169, 170. *Applied Music*.—(Senior.)

Students in other colleges and schools of the University may earn one or two credits a quarter in the applied music courses. Students of the College of Fine Arts carry a larger number of credits—one and one-half to three—as indicated in the set courses. Students enrolled in these courses will be given opportunity, on demonstration of the required ability, to participate in public recitals of the department.

Unless excused by reason of advanced standing on entrance, students who major in courses in applied music will require two lessons a week, ordinarily, to cover the work necessary for a degree. One to three credits a quarter.

(a) *Piano*.—Venino, Van Ogle, Mrs. A. F. Venino, Allen.

(b) *Violin*.—Rosen, Oliver.

(c) *Voice*.—Glen, Mabon, Bogardus, Lawrence.

(d) *Violoncello*.—Kirchner, Canfield.

(e) *Organ*.—Lynch, Wood.

(f) *Band and Orchestra Instruments*.—Adams.

22, 23, 24. *Music Appreciation*.—A course in the understanding and enjoyment of good music. Presenting many of the compositions instrumental and vocal, which make up the literature of music. Designed for the general student. Not counted for music majors. Two credits; autumn, winter, spring. Neilson.

25, 26, 27. *Choral Study*.—For freshmen. Part songs for men's voices.

‡Only those who have successfully completed the work in course 11 will be eligible for registration in course 12.

Candidates admitted only upon examination. Two credits a quarter; autumn, winter, spring. Lawrence.

28, 29, 30. *Choral Study*.—Part songs for women's voices. Only advanced students will be admitted. Two credits a quarter; autumn, winter, spring. Glen.

31, 32, 33. *University Orchestra*.—The orchestra affords qualified students opportunity for study of the better grades of orchestral composition. No one is eligible to enter the course unless the director is satisfied of the ability of the applicant. One credit a quarter; autumn, winter, spring. Glen.

34, 35, 36. *Voice Training—Applied Music*.—Principles of correct breathing and tone production essential to good singing. Two credits a quarter; autumn, winter, spring. Bogardus.

51. *Elementary Harmony*.—The harmonic series, intervals, and chord structure. Use of primary harmonies and bytones. Analysis and keyboard practice. Prerequisite, some knowledge of the piano, Mus. 9 and 16. Five credits; autumn, winter, spring. Wood, Neilson, Burns.

53. *Intermediate Harmony*.—Secondary harmonies. Prerequisite, Mus. 51. Five credits; autumn, winter, spring. Wood, Burns.

56. *School Music*.—For supervisors. Study of materials for the primary grades, of the child voice in singing and practice in chorus conducting. Prerequisite, Mus. 9, 16. Five credits; autumn, winter, spring. Newenham, Neilson.

*57, 58, 59. *Advanced Sight Singing*.

61, 62, 63. *Advanced Ear Training*.—Dictation and keyboard practice supplementary to harmony courses. Prerequisite, Mus. 16. Two credits a quarter; autumn, winter, spring. Neilson.

65, 66, 67. *Choral Study*.—Not open to freshmen. Part songs for men's voices. Candidates admitted only upon examination. Two credits a quarter; autumn, winter, spring. Lawrence.

84, 85, 86. *Advanced Voice Training—Applied Music*.—Two credits a quarter; autumn, winter, spring. Bogardus.

101. *Advanced Harmony*.—Chromatic harmonies and modulation. Prerequisite, Mus. 53. Five credits; autumn, winter, spring. Wood, McKay, Burns.

104, 105, 106. *Advanced Music History*.—Important periods and composers of modern music. Two credits a quarter; autumn, winter, spring. Van Ogle.

109. *Counterpoint*.—Regulation of two or more concurrent melodies. Prerequisite, Mus. 53. Five credits; autumn, winter. Wood, McKay.

112. *Music Form*.—Analysis of many examples and simple exercises in composition. Prerequisite, Mus. 53. Five credits; autumn, spring. Wood.

113, 114. *Music Education*.—Psychological and pedagogical principles and their application to the teaching of music. Prerequisite, Mus. 56. Two credits a quarter; autumn, winter. Newenham.

117. *Elementary Composition*.—Original work and arrangements for the more usual combinations of voices or instruments. Prerequisite, Mus. 101. Five credits; winter, spring. McKay.

124, 125, 126. *Chamber Music*.—Advanced study of musical literature for stringed trios, quartets and quintets. One credit a quarter; autumn, winter, spring. Rosen.

*Not offered in 1928-1929.

127, 128, 129. *Advanced Sight Singing*.—Study of "Messiah," "Tannhauser," and modern choruses. For students with experience in sight singing. Two credits a quarter; autumn, winter, spring. Newenham.

130, 131, 132. *University Band (Advanced)*.—Continuation of the work of the freshman and sophomore years in the study and production of more difficult compositions for band. One credit a quarter; autumn, winter, spring. Adams.

140, 141, 142. *Orchestral Instruments*.—Especially for public school majors. Two credits a quarter; autumn, winter, spring. (May be counted as applied music.) Adams.

151, 152, 153. *Advanced Music Appreciation*.—Appreciative study of some modern composers and schools. Two credits a quarter; autumn, winter, spring. Van Ogle.

154, 155, 156. *Music Supervision*.—For seniors and students of experience. High school, normal school, rural, community music. Appreciation and theory problems. Courses of study. Prerequisite, Mus. 113, 114, and Educ. 160N. Two credits a quarter; autumn, winter, spring. Newenham.

157. *Free Composition*.—Pieces in the smaller forms for voices and for instruments. Prerequisite, Mus. 117. Five credits; winter. McKay.

163. *Polyphonic Forms*.—Free counterpoint applied to the invention, canon, fugue, etc. Analysis and composition. Prerequisite, Mus. 109. Five credits; autumn. Wood.

165, 166. *Piano Teaching Methods*.—Teaching methods and a survey of teaching material, with supervised practice in teaching of piano. Prerequisite, five hours in education. Two credits a quarter; autumn, winter.

173. *Orchestration*.—Characteristics of individual instruments and exercises in scoring for various combinations. Prerequisite, Music 117. Five credits; winter. McKay.

197. *Advanced Composition*.—Original work in the larger forms. Prerequisite, Mus. 157. Five credits; spring. McKay.

199. *Senior Recital*.—Two credits; winter or spring.

Teachers' Courses in School Music and Piano Playing.—See Education 160N and 160X.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Graduate Composition*.—Credits to be arranged, 24 to 36.

204, 205, 206. *Research*.—Problems in Music Education, History, or Aesthetics. Credits to be arranged. Maximum 12 hours.

207, 208, 209. *Thesis*.—Either an original contribution from the student's field of research, or an acceptable original composition in one of the larger forms, performed before a committee of the faculty. Nine credits.

COLLEGE COURSES IN APPLIED MUSIC

The courses outlined are not arbitrary. They indicate the amount and character of the work the student is expected to cover for his musical degree. Credit will be given for equivalent courses pursued elsewhere prior to entering the University.

PIANO

Freshman and Sophomore Years.—Major and minor scales and arpeggios; studies selected from Czerny, Cramer, Loeschorn, Kullak, Hiller and Krause; sonatas by Scarlatti, Haydn, Clementi, Mozart and Beethoven; shorter compositions and inventions by Bach; and works from the classic and romantic schools.

Junior and Senior Years.—Scales in thirds, sixths and tenths; studies by Czerny, Clementi, Chopin, Brahms, MacDowell and Moszkowski; well-tempered Clavichord and suites of Bach; sonatas, pieces including at least one concerto, taken from the classic, romantic or modern composers. At least one recital program must be played from memory from the repertoire studied.

VOCAL MUSIC

The course in vocal music is even more flexible than that outlined for piano study. The purpose is to develop the voice and musical understanding so that the best in vocal music may be faithfully interpreted. The fact of having studied music for four years will not necessarily entitle a student to graduation.

Freshman.—Practical work in voice placing, breathing studies from among the following: Concone, Op. 9; Marchesi, Op. 1; Panofka, Op. 85; Vaccai, Book 1; simple Italian and English songs.

Sophomore.—Progressive tone work; Bordoni, Concone, Marchesi, Panofka, simple Italian arias, Italian and English songs.

Junior.—Tone work; advanced technique. Arias from Italian, French and German operas. German song classics; modern French and English songs.

Senior.—Tone work and technique. Repertoire in opera and oratorio; recitals; senior program.

VIOLIN

Freshman.—Violin Method, Book I and II, Rosen; Exercises, Op. 45, Book I, Wohlfahrt; Book I, De Beriot, Exercises Op. 68.

Sophomore.—Scales, Hirnaly; Studies, Blumenstengel Op. 33, Mazas, Books I and II; Concerto, Accoly, Scene de Ballet, De Beriot.

Junior.—Scales; Exercises, Books I and II, Schraedieck; Etudes, Kreutzer, Fiorillo Rode, Rovelli; Concerto. 9, and 7, De Beriot; one sonata by Handel.

Senior.—Scales, Rosen; Etudes, Dancla; Op. 7, Gavini; Op. 35, Dont; Sonata for violin alone, Bach; Concerto, Bruch, Mendelssohn, D-Minor, Wieniawski and No. 4 Vieuxtemps.

In the last quarter the student is obliged to memorize one sonata by Bach for violin alone and one of the concertos given in the fourth year.

FEES

Since most of the work in the courses in applied music must necessarily be of the character of individual instruction, the student is required to pay tuition fees for this work in addition to the general University tuition fee.

All fees are payable in advance to the comptroller of the University. The following quotations of regular fees are based on one lesson a week. More than one lesson a week will be charged for at the same rate. All lessons are one-half hour in length.

Chorus.—Music 10 and 11, \$1.

Piano.—Mr. Venino, \$25 a quarter; Mrs. Van Ogle, \$25 a quarter; Mrs. Venino, \$25 a quarter; Miss Allen, \$18 a quarter.

Vocal Music.—Miss Mabon, \$25 a quarter; Mrs. Bogardus, \$25 a quarter; Mr. Lawrence, \$25 a quarter.

Dean Glen will give individual instruction in singing and repertoire to a maximum number of 5 students. The fee will be at the rate of \$27 a quarter for one lesson weekly.

Violin.—Mr. Rosen, \$25 a quarter; Mrs. Oliver, \$18 a quarter.

Organ.—Mrs. Lynch, \$25 a quarter; Mr. Wood, \$25 a quarter.

Violincello.—Mr. Kirchner, \$25 a quarter; Miss Canfield, \$18 a quarter.

Band and Orchestra Instruments.—Mr. Adams, \$20 a quarter.

Arrangements may be made for individual instruction in other musical courses if necessary or desirable.

Piano for practice may be rented at the comptroller's office at the following rates:

One hour daily, \$3 a quarter.

Organ for practice; one hour daily, \$12.50 a quarter.

Key deposit, \$1 a quarter.

All rental charges must be paid in advance. No rebate in these charges will be allowed. Lessons lost through enforced absence may not be made up unless the teacher in charge has been previously notified of the intended absence and is willing to accept the excuse for the absence.

NAVAL SCIENCE AND TACTICS

Forest Products Laboratory

Commander James P. Olding, U.S.N., Professor; Commander Paul H. Rice, U.S.N., Lieut.-Comdr. J. G. B. Gromer, U.S.N., and Lieut. E. A. Foote, U.S.N., Assistant Professors; C. J. Wilson (C.B.M., U.S.N.), Malcolm Hamilton (C.G.M., U.S.N.), R. B. Littell (C.Y., U.S.N.), Instructors.

All male students in the University who are American citizens, and not physically disqualified, are required to take military training throughout the first two years of residence. The four-year course in Naval Science and Tactics prescribed by the Navy Department for institutional units of the Naval Reserve Officers' Training Corps may be substituted by the student for military training. Enrollment in this course is limited to fifty students each year. The naval course leads to a commission as Ensign in the United States Naval Reserve. Students for the course will be selected, from those applying, by the Professor of Naval Science and Tactics.

For those students who desire to major in Naval Science, a four-year curriculum has been arranged. (See curriculum G of the College of Science bulletin.)

Navigation has been dropped from the Naval Science course and will be given as separate courses under the College of Business Administration. These courses, B.A. 50-51-52 and 114 will be required of all Naval Science students.

FIRST YEAR

1-2-3. *Basic Course*.—Ordnance and Gunnery—Infantry and artillery drill, care and use of rifles and pistols. First aid and military hygiene, naval customs and etiquette. Seamanship—Handling of boats under oars and sail, knotting and splicing, life boat work. Signaling, rules of the road. Lectures on general naval subjects. Weather and laws of storms. Four hours per week plus one additional hour. One and two-thirds credits a quarter; autumn, winter and spring.

SECOND YEAR

51-52-53. *Basic Course*.—Ordnance and Gunnery—Infantry and artillery drill, machine guns, explosives; construction and use of large caliber naval guns. Seamanship—Anchor gear, handling heavy weights, handling steamers, duties of an officer. Lectures on general naval subjects. Four hours per

week plus one additional hour. One and two-thirds credits a quarter; autumn, winter and spring.

THIRD YEAR

101-102-103. *Advanced Course*.—Ordnance and Gunnery—Armor, projectiles and ammunition, machine guns and major caliber naval guns, fire control; torpedoes. Seamanship—Naval leadership, rules of the road, handling of ships in heavy weather, naval administration and discipline, naval communications. Engineering—Principles of engineering, boilers, reciprocating engines, steam turbines. Five hours per week plus one additional hour of drill. Three credits a quarter; autumn, winter and spring.

FOURTH YEAR

151-152-153. *Advanced Course*.—Ordnance and Gunnery—Principles of training, fire control, duties of gunnery officer and battery officer; defense against torpedo attack and aircraft; aerial gunnery and bombing. Seamanship—International Law, Military Law; formulation of orders, strategy and tactics. Engineering—Turbines, electrical propelling machinery, electricity, design and operation of internal combustion engines, elements of radio telegraphy. Five hours per week, plus one additional hour of drill. Three credits a quarter; autumn, winter, spring.

NURSING EDUCATION

Home Economics Hall

Associates Elizabeth S. Soule, Kathleen Leahy.

1. There are three distinct types of work for majors in nursing included in this department.
 - a. Five-year Curriculum: Three years of University work and two years in an approved hospital school of nursing, leading to a degree of bachelor of science in nursing and a hospital diploma.
 - b. Three-year curriculum for graduate nurses leading to a degree of bachelor of science in nursing.
 - c. One-year curriculum for graduate nurses leading to a certificate in public health nursing.
 - d. Three months' service course for students who have entered hospital schools of nursing.
2. Service courses for majors in other departments.
3. Because of the desire to relate this work closely to outside institutions the following courses have been developed through the extension service department:
 - a. A course leading to a certificate in public health nursing at Firland Sanatorium.
 - b. An introductory course in public health nursing to senior students in general hospitals.

COURSES

1. *History of Nursing*.—Informational study of nursing from the earliest times; traditions of nursing as a profession. A survey of the present field of nursing and discussion of problems. Open to any woman student in the University. Five credits; autumn. Leahy.
5. *Home Care of the Sick*.—Practical course for women students. Instruction given in baths and bed making, care of patients ill with common communicable diseases, care of chronics, invalids and babies. Fee, \$1. Two credits; autumn, winter, spring. Leahy.

50. *Principles and Practice of Elementary Nursing.*—This course is intended to prepare the student to have a greater understanding of the responsibilities which she must take upon entering the Hospital School of Nursing. Open only to nursing majors. Fee, \$2. Five credits; two lectures and three 2-hour laboratory periods; spring. Leahy.

102. *Principles of Public Health Nursing.*—Lectures on social and nursing technique in public health nursing. Discussion and observation of infant welfare, school, industrial, tuberculosis, and general visiting nursing. Theoretical and practical work required. Prerequisite, graduate registered nurse. Five credits; autumn. Soule.

103. *Administration of Public Health Nursing.*—Organization and administration of societies for visiting nursing, methods of collecting funds, boards of directors and various committees of these associations, office equipment, records, vital statistics, and supervision of staff nurses. Prerequisite, Nurs. 102. Five credits; winter, spring. Soule.

110E. *For Field Work, see Nursing 110E under Extension.*

111. *Supervised Field Work in School Nursing with the Medical Department of the Seattle Schools.*—Twelve hours field work; one hour class. Prerequisite, graduate registered nurse. Three credits; autumn, winter, spring. Soule.

120. *Public Health Nursing.*—A non-technical course in public health. Deals with the modern public health movement in its various phases. Three credits; spring. Soule.

140. *The Health Examination.*—This course is especially planned for majors in physical education. It deals with methods of examination, symptoms, and disposition of cases from the educational point of view. Prerequisite, senior standing. Three credits; winter. Soule.

Health Education.—See Education 179; P.E. 6, 7.

COURSES FOR GRADUATES ONLY

200. *Seminar.*—The present status of nursing education with special reference to the hospital and public health field in the state of Washington. Prerequisite, graduate registered nurse; 30 credits in nursing. Credits to be arranged. Soule.

201-202-203. *Problems.*—In nursing education, administration, and public health. Prerequisite, graduate registered nurse; 30 credits in nursing. Credits to be arranged. Soule, Leahy.

BY EXTENSION

110E. *Public Health Nursing.*—Field work to give a practical knowledge of the field of public health nursing. Discussion of family problems, demonstration in nursing technique, culture taking, milk modification, maternity care, district problems, etc. Prerequisite, Nurs. 102. Eight to sixteen credits; time to be arranged.

ORIENTAL STUDIES

Professor Gowen; Assistant Professor Griffin; Cooperating: Associate Professors Skinner and MacNair.

The department presents the thought treasures, the history, and the institutions of the Asiatic world, and serves those persons looking forward to teaching, research, and other work concerned with Oriental peo-

ples and affairs. Its courses are of use to students whose occupations will in some measure call for knowledge of the Orient—in business and trade; in journalism; in educational, religious, or social activity among Oriental races, either in Asia or in this country; and in political or diplomatic life. Persons interested in these special fields may profitably consult with the department regarding the choice of Oriental studies and the relation to these of various courses offered by the different faculties. Undergraduate and graduate students whose chief work is to be in this department are expected on registering in it to ask for a *List of Special Provisions* relating to the following: concentration of courses, required courses, knowledge of history and criticism, language requirements and possibilities, preparation in education, the scope of courses devoted to particular nations or periods, departmental reading and tests, suggestions for systematic private reading, possible lines of study in the reading course, topics in the Oriental seminars, general meetings (for discussion) of those registered in the department, publications, prizes, research and types of direct experience in the Orient, special lectures, and Oriental matters of local interest. These provisions also include the numbers and names of relevant courses in other subjects.

The college requirement of ten credits in ancient languages and literature may be met by any two of the courses 50, 51, and 52. Courses 114, 115, 116 count for credit in the department of philosophy.

History 25 and Oriental Studies 120 provide introductions to the subject in the first quarter. Oriental Studies 40-41 provides a knowledge of customs and ideas of present importance.

Fuller descriptions of courses appear in the department's *General Statement*, copies of which are available in the College and departmental offices.

COURSES

1-2-3. *Japanese Language*.—First-year course. Elements of spoken and written language; grammar, *kana*, and characters. Five credits; autumn, winter, spring. Griffin in charge.

*4, 5, 6. *Japanese Language*.—Second-year course. Intended to alternate with 1-2-3.

Introduction to History of Asia (History 25).—Resume of the main currents of human movement in the history of the continent of Asia. Five credits; autumn. Gowen.

†40-41. *Civilizations of Eastern Asia and the Pacific*.—Travel descriptions and customs. Attitudes, cultures, and institutions considered in relation both to existing situations and policies and to the earlier development of different elements in the intellectual and social life of China, Japan, etc. Hist. 25 or O.S. 120 a useful preliminary. Five credits; winter, spring. Griffin.

*44-45-46. No. 47-48-49. *Chinese Language*.—(See Extension courses of these numbers below.)

†50. *Literature of India*.—Indian literature from the Vedas to Rabindranath Tagore. Five credits; winter. Gowen.

†51. *Literature of the Euphrates Valley and Egypt*.—Survey of literary discoveries in Sumerian, Babylonian, Assyrian and Egyptian archaeology. Five credits; spring. Gowen.

*52. *Literature of Persia*.

*Not offered in 1928-1929.

†Upper division students may secure upper division credit by doing additional work.

*70. *Literature of China*.—(Offered in 1929-1930.)

†71. *Literature of Japan*.—Literary, historical, and philosophical works studied chiefly from a social viewpoint. Instructor's permission necessary for freshmen. Alternates with 70. Five credits; autumn. Griffin.

†*History of China* (History 75-76).—Evolution of the Chinese people; cultural and institutional factors; and contemporary China with reference to these. In this course and in the *History of Japan* attention is paid to the history of Chosen (Korea). Prerequisite, 8 credits of college history, or O.S. 40-41, or Hist. 25 and O.S. 120. Five credits; autumn, winter. MacNair.

†*History of Japan* (History 78-79).—Description similar to that of Hist. 75-76, above. Five credits; winter, spring. Griffin.

*80. *Semitic Literature*.

101-102-103. *Hebrew, Aramaic, or Arabic*.—According to demand. Five credits; autumn, winter, spring.

104-105-106. *Sanscrit*.—Five credits; autumn, winter, spring. Gowen.

Political and Economic Geography of Asia (Geography 103).—A study of the various countries of Asia and their division into geographic regions. A review of the factors of historical and social geography which have occasioned the present political and economic status of Asia. Prerequisites, Geology 10 or 11, or B.A. 7, or one course in Oriental Studies. Five credits; winter. Renner.

**Geography of Africa and Australasia* (Geography 104).

114, 115, 116. *History of Religion*.—I (autumn), primitive conceptions of religion; naturism and spiritism; II (winter), the religions of the Far East; and III (spring), Judaism, Christianity, and Muhammadanism. Offered in alternate years. Three credits; autumn, winter, spring. Gowen.

120. *Problems of Eastern Asia and the Pacific*.—An introductory case and problem approach to important questions, situations, and forces, of different types, considered as they actually are and in relation to the relevant historical background. Open to qualified sophomores. Five credits; autumn. Griffin.

*125-126, 127.—*Diplomatic History of Eastern Asia*.—History of early dealings of Oriental peoples and states with one another; ideas and policies; the course of Western diplomacy in Eastern Asia and the Pacific; and newer tendencies. †To alternate with 225-226, 227. (Omitted in 1928-1929.)

International Relations of the Far East (Pol. Sci. 128, 129).—Prerequisite, Pol. Sci. 1. Five credits; winter, spring. MacNair.

Trade of Far and Near East (Econ. 143).—Prerequisite, B.A. 7. Five credits; winter. Skinner.

*Not offered in 1928-1929.

†Upper division students may secure upper division credit by doing additional work.
‡Attention of students interested in various aspects of Asiatic or European colonization in the Orient (present problems, methods, or history) is called also to O. S. 190, 191, 192, to Pol. Sci. 125, 128, 129, 158, 251, 252, and to Sociol. 184, 185, 186.

152-153-154. *Hebrew, Arabic, or Sanscrit*.—Advanced course in the languages. Five credits; autumn, winter, spring. Gowen.

Governments and Politics of the Far East (Pol. Sci. 158).—Prerequisite, Pol. Sci. 1. Five credits; autumn. MacNair.

Cultural Contact, Cultural Conflict, Cultural Accommodation (Sociol. 184, 185, 186).—(These bear mainly on Asia and Oceania.) Three credits; autumn, winter, spring. Price.

190, 191, 192. *Reading Course*.—Reading on single, selected topics, regular conferences (individual or in small groups), reports, essays and tests; instructor's permission necessary. Open to qualified sophomores. Two to five credits; autumn, winter, spring. Griffin.

Research in Geographic Problems of Asia (Geography 203).—Credit and hours to be arranged; spring. Renner.

**Oriental Seminar.*

225-226, 227. *Seminar in Oriental Diplomacy*.—Selected topics in the history of the dealings of Oriental peoples or states with one another or with Western states (with the United States, for 1928-1929).‡ Intended to alternate with O.S. 125-126, 127. Three credits; autumn, winter. MacNair.

290, 291, 292. *Thesis*.—Directed investigation and writing in connection with work for advanced degrees. Credits to be arranged; autumn, winter, spring. Staff.

BY EXTENSION

E. 44-45-46. *Chinese Language*.—Introduction to the elements of Mandarin and the ideographs. Beginning students are strongly advised to plan to continue with the second-year course. For departmental credit 15 hours must be offered. Five credits; autumn, winter, spring.

E. 47, 48, 49. *Chinese Language*.—Second-year course. Each course a prerequisite to the following one. Three credits; autumn, winter, spring.

PAINTING, SCULPTURE AND DESIGN

Education Hall

Associate Professor Isaacs; Assistant Professors Pratt, Hill, Rhodes, Benson, Foote¹; Associates Patterson, Worman, Wood, Pennington; Instructors Buck, Padelford.

Students applying for advanced standing should present samples of work done, to the head of the department.

5, 6, 7. *Drawing*.—Elementary course. Charcoal and water color from casts and still life. Perspective. Prerequisite for any subsequent course in drawing and painting. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring. Patterson, Hill, Padelford, Worman.

9, 10, 11. *Art Structure*.—Principles of design in line, dark and light, and color to develop the power of appreciation and the ability to create good design. Prerequisite for any subsequent course in art structure. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring.

Rhodes, Benson, Hill, Buck, Wood, Pennington.

¹Not offered in 1928-1929.

‡Attention of students interested in various aspects of Asiatic or European colonization in the Orient (present problems, methods, or history) is called also to O. S. 190, 191, 192, to Pol. Sci. 125, 128, 129, 158, 251, 252, and to Sociol. 184, 185, 186.

¹Absent on leave 1928-29.

20. *Sculpture Appreciation*.—Illustrated lectures and demonstrations on the history and appreciation of sculpture. Two credits; spring. Pratt.

32, 33, 34. *Drawing and Sculpture for Architects*.—One quarter of sculpture and modeling from casts. Two quarters drawing from cast ornaments. Lab. fee, \$2. Three credits a quarter; autumn, winter, spring.

Pratt and Padelford.

53, 54, 55. *Art Structure*.—Principles of design applied in batik, tie and dye and wood-block printing. Prerequisite, P.S.D. 9, 10, 11. Lab. fee, \$2. Three credits a quarter; autumn, winter, spring.

Benson.

56, 57, 58. *Drawing and Painting*.—Still life, and cast. Oil painting. Introduction to drawing from life. Prerequisite, P.S.D. 5, 6, 7. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring.

Patterson, Hill.

*59, 60, 61. *Household Design*.

62. *Essentials of Interior Design*.—Lectures on the art of home decoration. Intended to give the general student a practical knowledge of the subject. Illustrated with textiles, furniture, lantern slides. Special lectures and trips. Two credits a quarter; autumn, winter and spring.

65, 66, 67. *Drawing and Painting*.—Lab. fee, \$1. Prerequisites, P.S.D. 5, 6, 7. Three credits; autumn, winter, spring.

Padelford.

72, 73, 74. *Sculpture*.—Elementary course in modelling clay and wax from casts. Original compositions. Construction of plaster moulds. Lab. fee, \$3. Prerequisite, P.S.D. 5, 10, 11. Three credits a quarter; autumn, winter, spring.

Pratt.

80, 81, 82. *Furniture Design*.—Lectures on the history of furniture with the execution of original design for furniture. Lab. fee, \$1. Prerequisites, P.S.D. 9, 10, 11. Three credits a quarter; autumn, winter, spring.

Pennington.

101. *Public School Art*.—Elements of interior design, adapted to public school art. Prerequisites, P.S.D. 9, 10, 11. Two credits; autumn.

102. *Public School Art*.—Problems in representation, design, and industrial art. Adapted to grade, junior high, and high school courses. Methods of presentation. Lab. fee, \$1. Prerequisites, P.S.D. 53, 54, 55, 56, 57, 58. Two credits; winter.

Rhodes.

103, 104. *Pottery*.—Lab. fee, \$2. Prerequisite, P.S.D. 5, 6, 7, 9, 10, 11. Three credits a quarter; autumn and winter.

Worman.

105. *Art Structure*.—Design as applied to lettering. Prerequisites, 9, 10, 11, and 5, 6, 7. Three credits; winter.

Buck.

106. *Art Structure*.—Poster designing. Prerequisite, P.S.D. 5, 6, 7, 9, 10, 11. Three credits; spring.

Buck.

107, 108, 109. *Portrait Painting*.—Lab. fee, \$3. Prerequisites, P.S.D. 56, 57, 58. Three credits a quarter; autumn, winter, spring.

Patterson.

110, 111, 112. *Interior Design*.—Lab. fee, \$1. Prerequisites, P.S.D. 9, 10, 11, 56, 57, 58. Three credits a quarter; autumn, winter, spring.

116. *Illustration*.—Prerequisites, P.S.D. 9, 10, 11, 56, 57, 58. Lab. fee, 50c. Three credits; autumn.

Rhodes.

122, 123, 124. *Sculpture*.—Continuation of courses 72, 73, 74, with modeling from the head. Lab. fee, \$3. Prerequisites, P.S.D. 72, 73, 74. Three credits a quarter; autumn, winter, spring.

Pratt.

126, 127, 128. *History of Painting*.—Evolution of the great schools of painting. Illustrated lectures and discussions. One credit a quarter; autumn, winter, spring.

Isaacs.

130. *Pottery*.—Advanced work with emphasis on glazing. Lab. fee, \$2. Three credits a quarter; autumn, winter. Worman.

132, 133, 134. *Advanced Sculpture*.—Modeling from the head or figure. Compositions. Prerequisites, P.S.D. 122, 123, 124. Lab. fee, \$3. Three credits a quarter; autumn, winter, spring. Pratt.

151, 152. *Art Structure*.—Study and history of processes used in the art of the book. Compositions in block print. Lab. fee, \$1. Prerequisite, junior standing. Three credits a quarter; winter and spring. Rhodes.

157. *Metal Work*.—Etching, sawing and hammering of copper and brass. Lab. fee, \$2. Prerequisites, P.S.D. 53, 54, 55. Three credits; autumn. Wood.

158. *Jewelry*.—Simple problems in silver. Stone setting. Lab. fee, \$5. Prerequisite, P.S.D. 157. Three credits; winter. Wood.

159. *Jewelry*.—Advanced jewelry. Lab. fee, \$5. Prerequisite P.S.D. 158. Three credits; winter. Wood.

160, 161, 162. *Life*.—Lab. fee, \$3. Prerequisite, junior standing. Three credits a quarter; autumn, winter, spring. Isaacs.

163, 164, 165. *Composition*.—Lab. fee, \$1. Three credits; autumn, winter, spring. Isaacs.

166, 167, 168. *Art Structure*.—Problems in decoration related to the stage. Lab. fee, \$1. Three credits a quarter; autumn, winter, spring. Benson.

169, 170, 171. *Costume Design*.—Prerequisites, P.S.D. 9, 10, 11. Lab. fee, \$1. Two credits a quarter; autumn, winter, spring. Buck.

172, 173, 174. *Interior Design*.—Advanced problems in interior design in elevation and perspective. Lab. fee, \$1. Five credits per quarter; autumn, winter, spring.

175, 176, 177. *Advanced Painting*.—Lab. fee, \$3. Prerequisites, P.S.D. 56, 57, 58. Three credits a quarter; autumn, winter, spring. Isaacs.

179, 180, 181. *Costume Design*.—Prerequisite, 171. Two credits; autumn, winter, spring. Buck.

COURSES FOR GRADUATES ONLY

207, 208, 209. *Portrait Painting*.—In this course the student will do work of ample size and of a professional character. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Patterson.

260, 261, 262. *Advanced Painting*.—An intensive course in painting from life. Lab. fee, \$3. Five credits a quarter; autumn, winter, spring. Isaacs.

263, 264, 265. *Composition*.—Lab. fee, \$1. Three to five credits; autumn, winter, spring. Isaacs.

Teachers' Course in Methods in Teaching Art.—See Educ. 160P.

Suggested Courses in Commercial Art.—P.S.D. 9, 10, 11, 105, 106, 116, 151, 152, 5, 6, 7, 160, 161, 162.

PHARMACY, PHARMACEUTICAL CHEMISTRY,
PHARMACOLOGY, TOXICOLOGY,
MATERIA MEDICA AND FOOD CHEMISTRY

Bagley Hall

*Professors Johnson, Lynn, Langenhan; Assistant Professor Goodrich;
Instructors Lofgren, Snidow and Assistants.*

1, 2, 3. *Theoretical and Manufacturing Pharmacy*.—Principles of pharmaceutical operations, and manufacture of Pharmacopoeial and National Formulary preparations. Two lectures, one quiz and two laboratory periods a week. Lab. fee, \$6.50 a quarter. Five credits a quarter; autumn, winter, spring. (Phar. 1, 2 repeated winter, spring quarters.) Lofgren and assistants.

4. *Commercial Pharmacy*.—Lecture course, covering the commercial problems of the practical pharmacist. Two credits; spring. Langenhan.

5, 6, 7. *Drug Assaying*.—Experiments in gravimetric and volumetric analysis. Training in fundamental principles of quantitative analysis with analysis of substances of pharmaceutical importance. Alkaloid assay of crude drugs and assay of volatile oils. Two lectures and three laboratory periods a week; autumn and spring quarters. Five credits; autumn, winter. Four credits; spring. Lab. fee, \$6.50 in autumn and winter quarters, and \$4.50 in spring quarter. Goodrich.

9, 10, 11. *Prescriptions*.—Theory and practical application of extemporaneous compounding. About 200 prescriptions are compounded, illustrating the theory of class room work. One lecture, one quiz, and one laboratory period a week. Lab. fee, \$3 a quarter. Three credits a quarter; autumn, winter, and spring. Snidow and assistants.

12, 13. *Materia Medica*.—Crude organic drugs, their source, methods of collecting and preserving, identification, active constituents and adulterations. Three lectures a week. Three credits; autumn, winter. Goodrich.

15. *Field Materia Medica*.—Native medicinal plants of Washington and plants under cultivation in the drug garden. One laboratory period a week, consisting largely of work in the drug garden and field trips. Lab. fee, \$1. One credit; spring. Goodrich.

101, 102, 103. *Pharmacology and Toxicology*.—Physiological actions of drugs in health and disease; therapeutic uses and posology; symptoms and treatment in cases of poisoning. Two credits a quarter; autumn, winter, spring. Lynn.

112. *Materia Medica*.—Advanced course in materia medica dealing largely with animal drugs and biological products. Three credits; spring. Goodrich.

113, 114, 115. *Advanced Prescriptions*.—Difficult and incompatible prescriptions. Special problems in dispensing, and new and non-official remedies. Manufacture of diagnostic reagents. Two lectures, one quiz and two laboratory periods. Lab. fee, \$6.50 a quarter. Five credits; autumn, winter, spring. Langenhan and assistants.

117, 118, 119. *United States Pharmacopoeia and National Formulary*.—Chemistry and pharmacy of the U.S.P. and N.F. preparations and inorganic chemicals. Two recitations a week. Two credits; autumn, winter, spring. Langenhan.

125, 126, 127. *Current Problems*.—Lectures and recitation in current pharmaceutical problems, commercial and scientific. Use is made of the

current number of most of the pharmaceutical journals published in the United States, and of several medical journals. One credit; autumn, winter, spring. Langenhan.

191, 192, 193. *Research Problems in Pharmacy*.—Open to juniors, seniors and graduates. Lab. fee, \$1 per credit hour. One to five credits; autumn, winter, spring. Lynn, Langenhan, Goodrich, Johnson.

195, 196, 197. *Pharmaceutical Chemistry*.—The pharmacy and chemistry of alkaloids, glucosides, oils, volatile oils and other plant and animal principles of pharmaceutical importance. The course will also include the separation and identification of poisons from animal tissue. Two lectures and three laboratory periods. Lab. fee, \$6.50 a quarter. Five credits; autumn, winter, spring. Lynn.

201, 202, 203. *Investigation*.—Graduate students may undertake original investigation in pharmacy, pharmaceutical chemistry, pharmacology, volatile oils and plant principles under the direction of an instructor. Laboratory fee, \$1 per credit hour. Credit to be arranged. Autumn, winter, spring. Lynn, Langenhan, Goodrich, Johnson.

PHILOSOPHY

Philosophy Hall

Professor Savery; Associate Professor Blake; Assistant Professor Langford; Associate Phillips.

The Liberal Arts requirement is five credits in philosophy. This requirement may be satisfied by any one of the following courses: Philosophy 1, 2, 3, 5. (None of these has any prerequisites.)

Philosophy 1, 2, and 5 are suited to arts-law students.

Psychology 1 is required of majors in philosophy.

Philosophy 2 or 3, 5, and 101-102-103 are required of majors.

At least 50 per cent of the hours in the major must be in upper division courses.

1. *Introduction to Philosophy*.—Not open to freshmen. Five credits; autumn, winter, spring. Blake, Langford and Phillips.

2. *Introduction to Social Ethics*.—Social ideals and problems, with special emphasis upon the opposition of democracy and aristocracy in government, industry, law, education, art and religion. Not open to freshmen. Five credits; winter. Savery, Langford, Phillips.

3. *Introduction to Ethics*.—Moral principles and their application to the problems of life. Not open to freshmen. Five credits; spring. Blake, Phillips.

5. *Introduction to Logic*.—Conditions of clear statement, adequate evidence, and valid reasoning, and their establishment in the mental processes of the student. Not open to freshmen. Five credits; autumn, winter, spring. Langford.

101-102-103. *History of Philosophy*.—Ancient, medieval and modern. Open to juniors and seniors only. Three credits a quarter; autumn, winter, spring. Blake.

104-105-106. *Metaphysics*.—The nature of reality, with special reference to the concepts and principles of science. For advanced students in philosophy or in the sciences. Instructor's permission necessary. Three credits a quarter; autumn, winter, spring. Savery.

*113. *Philosophy of Religion.*

Oriental Studies. 114, 115, 116. *History of Religion.*—Autumn Quarter: primitive conceptions of religion; naturism and spiritism; Winter Quarter: the religions of the Far East; Spring Quarter: Judaism, Christianity, and Muhammadanism. Offered in alternate years. Three credits; autumn, winter, spring. Gowen.

123. *Philosophy in English Literature of the Nineteenth Century.*—From Wordsworth to Shaw, Wells and Chesterton, and including Emerson, Whitman, Masters, and Mark Twain. Prerequisite, Phil. 1. Five credits; spring. Savery.

129. *Esthetics.*—Theories of the nature of Art, the nature of Beauty, and the various sources of esthetic effect. Open only to juniors and seniors. Five credits; autumn. Savery.

133. *Ethical Theory.*—An advanced course in the fundamental concepts and principles of ethics. Prerequisite, Phil. 2 or 3. Two credits; spring. Savery.

141-142-143. *Contemporary Philosophy.*—Modern movements and controversies. Readings and discussions on pragmatism, new intuitionism, mysticism, philosophy of faith, fate and free will, mechanism and vitalism, materialism and idealism, the finite and infinite, the new realism, etc. Prerequisite, Phil. 1 or 101-102-103. Two credits a quarter; autumn, winter, spring. Blake.

COURSES FOR GRADUATES ONLY

207-208-209. *Seminar in Philosophy of Science.*—An advanced study of metaphysics. Open to students upon approval of instructor. Three credits a quarter; autumn, winter, spring. Savery.

214-215-216. *Seminar in Logic.*—Autumn quarter: Idealistic views of logic. Winter Quarter: Induction. Spring quarter: Probability. Prerequisite, Philosophy 5. Two or three credits the quarter; autumn, winter, spring. Langford.

*227-228-229. *Seminar in Esthetics.*

*241-242-243. *Seminar in Plato and Aristotle.*

244-245-246. *Seminar in Hume and Kant.*—A critical study. Open to students upon approval of instructor. Two or three credits a quarter; autumn, winter, spring. Blake.

*247-248-249. *Seminar. The Philosophy of Schopenhauer and Nietzsche.*

251-252-253. *Research in Philosophy.*—Open to students upon approval of instructor. One to six credits a quarter; autumn, winter, spring. Staff.

PHYSICAL EDUCATION FOR MEN

Assistant Professor Foster, Director; Assistant Professor Arbutnot;
Professor Hall, University Health Officer.

The purpose of the department is twofold:

1. To provide opportunity for all men of the University to receive the biological and social benefits that come through participation in a rational program of physical education.

*Not offered in 1928-1929.

2. To train directors, supervisors, and teachers of physical education for the playgrounds, elementary schools, secondary schools and colleges.

Requirements for Graduation.—Two years of physical education or military science and tactics are required of all able-bodied male students, with the exception of men over 24 years of age at the time of original entrance into the University.

Military Training.—Requirements in military science and tactics take precedence over the requirements in physical education. (See Military Science and Tactics.)

Health and Physical Examinations.—All students entering the University for the first time are required to receive a thorough medical and physical examination. The examination will serve to determine the course in which the student shall register.

Special Examinations.—All men who wish to engage in vigorous organized athletic contests are required to receive a medical examination the year of and previous to the sport in which they desire to participate.

Requirements for a Major.—Thirty-six credits including courses 80, 90, 110, 131, 132, 133, 141, 142, 143, 145, 150, 153, and four credits in advanced athletic methods. Students are advised to complete, in addition to the physical education major, a second teaching major, or two teaching minors. (Note: Course P.E. 153 is given by the department of physical education for women).

Academic Minor.—Minimum 20 credits including courses 80, 90, 141, 142, 143, 110 and four credits in advanced athletic methods.

REQUIRED COURSES

For Freshmen

1, 2, 3. *Elementary Physical Education.*—Organized class work in natural gymnastics, games and sports. Practice of the fundamental skills, self-testing activities, combat, self-defense. During the freshman year the student is introduced to a wide variety of activities with the hope that he may find several in which he wishes to specialize during the sophomore year. One and two-thirds credits a quarter; autumn, winter, spring.

5, 6, 7. *Restricted Exercise.*—Individual gymnastics, games and sports. Work adapted to meet the individual needs based upon the findings of the medical and physical examination. One and two thirds credits a quarter; autumn, winter, spring.

For Sophomores

51, 52, 53. *Advanced Physical Education.*—Advanced work in natural gymnastics, games and sports; self-testing activities, combat, self-defense. During the sophomore year the student is permitted to select three activities (one for each term) in which to specialize. One and two-thirds credits a quarter; autumn, winter, spring. Staff.

55, 56, 57. *Restricted Exercise for Sophomores.*—A continuation of Phys. Educ. 5, 6, 7. One and two-thirds credits a quarter; autumn, winter, spring.

58, 59, 60. *Physical Education Leadership.*—A substitute for courses 51, 52, 53, for men who wish to develop leadership in physical education. Practice in teaching the activities in the regular physical education classes.

Students may register in this course only with the permission of the instructor. One and two-thirds credits a quarter; autumn, winter, spring.

PROFESSIONAL PHYSICAL EDUCATION COURSES

80. *Introduction to Physical Education.*—A general survey of the field; range and scope of activities including professional opportunities; relation of the required curricular courses to the special field. Two credits; autumn. Foster.

90. *Personal and General Hygiene.*—The laws of hygiene as they apply to the individual problem of adjustment. Health interpreted in terms of life values. Health information that affords a basis for intelligent selection in the formation of healthful habits and attitudes. Two credits; spring.

110. *Athletic Training and First Aid.*—This course will consider athletic training and conditioning with practice in the use of tests to determine condition. A study will be made of safety measures for the prevention of injuries, with practice in the recognition and treatment of injuries common to the playgrounds, gymnasium and athletic field. Two credits; spring.

113. *Playground and Community Recreation.*—Organization of recreational programs for children and adults. Use of facilities and equipment for boys clubs, scouts, camps, church, school recess, fraternal and industrial organizations. Classification of games and sports activities suitable for the various age groups. Demonstrations in the presentation of play materials. Observation of work in the city. Three credits; spring.

131. *Kinesiology.*—A study of body mechanics including muscles, bones, and joints. An analysis will be made of the fundamental movements involved in gymnastics, athletic sports and vocational activities with reference to mechanical structure and function. Prerequisites, *Physiology* 53, 54, 55. *Zool.* 1, 2. Three credits; autumn.

132, 133. *Individual Gymnastics.*—This course will consider physical abnormalities of the most frequent occurrence; relation of postural defects to organic function; methods of prevention and improvement with practice in the selection and application of corrective exercise to actual cases under supervision. Prerequisite, *Phys. Educ.* 131. Three credits a quarter; winter, spring.

141, 142, 143. *Physical Education Methods.*—Theory and application of educational method to the teaching of physical education in the elementary and secondary schools. Organization and class management. Participation in the activities of the program including wrestling, boxing, fencing, bodily contact activities, stunts, tumbling, athletic dancing and the fundamental skills of athletic sports. Three credits a quarter; autumn, winter, spring.

145. *Principles of Physical Education.*—Social, biological and educational foundations. A study of significant movements shaping the trend of physical education both past and present. The place of Physical Education in American life and its relation to general educational theory and practice. Formulation of the major aims and objectives. Prerequisites, *Soc.* 1, *Educ.* 101, *Zool.* 1, 2, *Psych.* 1. Three credits; autumn. Foster.

150. *Physical Education Administration.*—Organization and administration in the schools and colleges. Administrative problems of the director, supervisor and teacher. Relationship of the department to other depart-

ments. Selection of staff on the basis of professional qualifications. Methods of keeping records. Construction, cost and care of gymnasiums, athletic fields and equipment. Practice in constructing a curriculum for an actual situation. Prerequisites, Phys. Educ. 141, 142, 143, and nursing 140. Three credits; spring. Foster and Staff.

155. *Scouting Principles and Practice*.—Scouting education including its philosophy, pedagogy and psychology. A study of the aims, objectives, organization and management, along with the practical participation in the organization and use of subject matter. Five credits; winter. Arbuthnot.

The following methods courses are designed for men who wish to teach advanced groups:

170. *Methods in Teaching Football*.—Theory and practice of the fundamental principles underlying both individual and team play. Prerequisite, one season practice in college football. Two credits; spring. Bagshaw.

171. *Methods in Teaching Basketball*.—Individual and team development; offensive and defensive play. Two credits; autumn. Edmundson.

172. *Methods in Teaching Track and Field*.—Methods of training for the various events. Correct form in running. Conducting and officiating meets. Two credits, autumn. Edmundson.

173. *Methods in Teaching Baseball*.—Fundamentals of batting, base-running and position play; theory and practice. Prerequisite, one season practice in college baseball or the equivalent. Two credits; spring. Graves.

174. *Methods in Teaching Boxing and Wrestling*.—Prerequisite, one season intramural or varsity practice. Two credits; autumn. Arbuthnot.

*175. *Methods in Teaching Swimming and Diving*.

*176. *Methods in Teaching Life Saving*.

Methods in Health Education.—(See Department of Phys. Ed. for Women, P.E. 153).

Teachers' Course in Physical Education. (See Educ. 160S).

PHYSICAL EDUCATION AND HYGIENE FOR WOMEN

Gymnasium

Associate Professor Gross, Director; Lecturer Burdon; Assistant Professors deVries, McGownd; Associates Helmich, Martin; Assistants Cundiff, Duncan, Jefferson, Rickey.

The health education requirement for all university women is represented by regular participation in healthful activities and in the lecture course on the fundamentals of healthful and efficient living.

(a) *Healthful Activities*. All women are required to elect some form of healthful activity during the first four quarters of university residence. In order that each student may have the vigorous wholesome activity necessary for promoting health, that she may develop social as well as individual motor skills and have opportunity for aesthetic expression, and that she may learn the elements of, and love for, a recreational hobby which she may continue in after years, it is recommended that she elect one of each of the following groups:

*Not offered in 1928-1929.

Group 1. Rhythmic activities.—Natural dancing, folk dancing, and clog and character dancing.

Group 2. Individual athletic activities.—Tennis, golf, archery, canoeing, rifle shooting, and riding.

Group 3. Group athletic activities.—Baseball, basketball, volleyball, hockey, and soccer.

Group 4. Swimming.

Four quarters of activities are required for graduation. These courses give academic credit. Three additional quarters may be taken and will count as other academic credits for graduation.

(b) *Lecture Course in Health Education.* This course is given jointly by the Home Economics Department, Nursing Education Department, and the Physical Education Department. Its aim is to present the fundamental facts which serve as the basis of a development of intelligent attitudes toward individual, community, racial health.

Courses leading to a major in physical education are listed under professional courses in physical education. For curriculum in Physical Education, see College of Science bulletin, or School of Education bulletin.

REQUIRED LECTURE COURSES FOR ALL UNIVERSITY WOMEN

4, 5. *Health Education.*—The development of personal and social attitudes in matters of personal and community hygiene. Study of physiological facts related to these attitudes. Development of a social consciousness regarding personal and future problems in the matter of self-direction. One lecture a week for two quarters or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Burdon.

6, 7. *Health Education.*—The development of the public health program in rural communities and cities. Home care of patients, invalids, and babies. Public health and communicable disease. One lecture a week for two quarters or two lectures a week for one quarter. One or two credits; autumn, winter, spring. Soule.

8, 9. *Health Education.*—Principles of food and nutrition for various age groups. Sources of material and a study of the application of scientific principles. One lecture a week for two quarters, or two lectures a week for one quarter. One or two credits; autumn, winter, spring.

Bliss

ACTIVITY COURSES

61. *Folk Dancing.*—Two hours of practice. One credit a quarter; autumn, winter. Martin.

62. *Clog and Character Dancing.*—Twice a week. One credit; autumn, winter, spring. Martin.

63. *Advanced Clog and Character Dancing.*—Twice a week. One credit; winter, spring. Martin.

64. *Hockey.*—Two hours of practice. One credit; autumn.

Helmich, Duncan.

65. *Basketball.*—Two hours of practice. One credit; winter.

Helmich.

66. *Advanced Basketball.*—Two hours of practice. One credit; winter.

Helmich.

67. *Elementary Tennis.*—Two hours of practice. One credit; autumn, spring. Helmich, Cundiff, Duncan.

68. *Soccer*.—Twice a week. One credit; winter. Duncan.
69. *Advanced Tennis*.—Prerequisite, Phys. Educ. 67. Two hours practice. One credit; spring, autumn. Helmich.
72. *Rifle Shooting*.—Two hours of practice. One credit a quarter; autumn, winter, spring.
75. *Archery*.—Two hours practice. One credit; spring. deVries.
76. *Advanced Archery*.—Two hours practice. One credit; spring. deVries.
80. *Indoor Baseball*.—Two hours practice. One credit; winter. Cundiff.
81. *Baseball*.—Two hours practice. One credit; spring. Helmich.
82. *Volley Ball*.—Two hours practice. One credit; autumn, spring.
85. *Aquatic Sports, Canoeing*.—Two hours practice. One credit; spring. Martin.
87. *Golf*.—Two hours practice. Fee, \$3.50. One credit; autumn, winter, spring. Jefferson.
88. *Advanced Golf*.—Prerequisite, Phys. Educ. 87. Fee, \$3.50. One credit; winter, spring, autumn. Jefferson.
- 91, 92, 93. *Natural Dancing*.—Two hours practice. One credit; autumn, winter, spring. deVries, Martin.
94. *Riding*.—This course will be given at the Washington Riding Academy. Fee, \$6. Twice a week. One credit; autumn, winter, spring. Rickey.
95. *Swimming*.—Two hours of practice. One credit. Fee, \$1. Autumn, winter and spring. Glover, Duncan.
96. *Intermediate Swimming*.—Two hours of practice. Fee, \$1. One credit; autumn, winter, spring. Glover, Duncan.
97. *Advanced Swimming*.—Two hours of practice. Fee, \$1. One credit; autumn, winter, spring. Glover, Duncan.
- Registration in the following courses is only upon the recommendation of an instructor following medical and physical examination.*
- 1, 2, 3, *A to F inclusive*. *Corrective Gymnastics*.—One credit; autumn, winter, spring. McGownd.

PROFESSIONAL COURSES IN PHYSICAL EDUCATION

100. *Survey of Physical Education as a Profession*.—Opportunities in the field. Relation of courses. Required of all physical education majors. Two credits; winter. Gross.
- 101-102. *Survey of Gymnastics*.—Gymnastic terminology. Classification of gymnastic material. Principles and technique of teaching. Prerequisites, or accompanying courses, Anat. 101-102-103 and Physiology 54-55. One hour lecture and two hours practice. Three credits a quarter; winter, spring. Martin.
- 103-104. *Principles and Practice in Clog and Character Dancing*.—Teachers' course. Three hours practice. Two credits; autumn, spring. Martin.

105-106. *Principles and Practice in Folk Dancing*.—Dances of the nations arranged for teaching in schools. Technique, methods of teaching, relation of music to dancing. Study of folk festivals, educational values, organization, costuming. Prerequisite, one year of dancing or Phys. Educ. 111, 112, 113. One hour lecture and two hours practical work. Two credits a quarter; autumn, spring. Gross.

111. *Rhythms and Dramatic Games*.—Elementary rhythms, singing games and folk dances. Material, educational value and methods of teaching. Study of their use and significance in child development. One lecture, two hours of practice. Three credits; autumn. Gross.

112. *Elementary Athletic Games*.—Games for the elementary grades and team games for high school age. Efficiency tests for school and playground use. Methods of organization. One hour lecture, two hours practice. Three credits; winter. Gross.

113. *Organization and Administration of Playgrounds*.—Classification of play material, conduct and equipment of play centers. Commercial and municipal recreation; agencies promoting recreational activities. Prerequisite, Phys. Educ. 111, 112. Three lectures a week. Three credits; spring. Gross.

114. *Music in Physical Education*.—Deals with study of fundamental structure of music as used in both dancing, interpretive dancing and rhythms for children; selection of music for festivals, pageants, and dance dramas. Two credits; spring. de Vries.

122. *Kinesiology*.—A study of the principles of body mechanics and body movements; the analysis of muscular movement and problems of muscular readjustments in relation to posture. Prerequisites, Anat. 101-102-103 and Physiology 53-54-55. Three credits; autumn. McGownd.

*127. *Tests and Measurements*.

131-132-133. *Theory and Practice in Adapted Activities*.—Study of deviations from the normal, remedial gymnastics and application of exercises for correction; kinesiology. Two hours lecture and four hours practice. Prerequisite, Phys. Educ. 101-102, 122 and Physiol. 53-54-55. Anat. 101-102-103. Three credits a quarter; autumn, winter, spring. McGownd.

134. *Problems in Adapted Activities*.—Special problems, including survey of hospital, grammar school and high school adapted activity work. Research in remedial and orthopedic fields. Problems selected will depend upon personnel of class. Prerequisite P.E. 131, 132 or equivalent. Credits 1-5 to be arranged; autumn, winter, spring. McGownd.

152. *Administration of Physical Education*.—Curricula for grades and high schools; school administration. Value of various types of activities. Administration problems. Prerequisite, Phys. Educ. 101-102-103, 104-105-106, and 111, 112, 113, and Educ. 160R. Two credits a quarter; winter. Gross.

153. *Methods in Health Education*.—Material and methods in teaching hygiene in the grades. Two hours a week. Two credits; spring. Gross.

154-155-156. *Natural Dancing*.—Technique of natural dancing, based on natural movements. Composition of dance dramas. One hour lecture and two hours practice. Prerequisite, participation in dance drama, or P.E. 91, 92, and upper division standing. Two credits a quarter; autumn, winter, spring. de Vries.

*Not offered 1928-1929.

157-158-159. *Advanced Natural Dancing*.—Methods in teaching natural dancing and adaption for various types of classes. Character dancing and study of the characteristics of national groups. Prerequisite, Phys. Educ. 154, 155, 156. Two credits; autumn, winter, spring. de Vries.

*161. *Normal Diagnosis*.

167. *Methods in Teaching Hockey*.—Methods in teaching hockey. Prerequisites, Psych. 1, and knowledge of and participation in hockey. One hour lecture and two hours practice. Three credits; autumn. Helmich.

169. *Methods in Teaching Tennis and Archery*.—Prerequisite, Psych. 1 and knowledge of and participation in both sports. One hour lecture, two hours practice. Three credits; spring. de Vries.

170-171-172. *Methods in Teaching Basketball and Baseball*.—Prerequisite, Psych. 1, Educ. 101 and knowledge of game. One hour lecture and two hours of practice. Two credits; autumn, winter, spring. Helmich.

174-175. *Teachers' Course in Swimming*.—Method of teaching strokes, diving, life saving. Construction and hygiene of the pool. Methods of filtration and general organization of programs. Two credits each; winter and spring. Glover.

P.E. 177. *Problems in Athletic Programs*.—Problems which evolve from the organization and instruction of sports and studies concerning the personnel of sport classes. Credits 1-5 to be arranged. Autumn, winter or spring. Helmich

180-181. *Campcraft*.—This is a three weeks' course given in September at Hidden Cove Camp on Hood Canal. The course represents actual participation in camp organization and in camp activities, practice in soccer, water sports, swimming, canoeing, life saving, camp cooking, and overnight hikes. Required of all majors preferably at end of freshman year. Two credits. Gross and Staff.

Teachers' Course in Phys. Educ.—See Educ. 160R.

COURSES FOR GRADUATES ONLY

200. *Seminar*.—Present status of physical education with special reference to a state survey of standards, training of teachers, programs, equipment, schedules, etc. Prerequisite, 30 credits in physical education. Credits to be arranged; autumn, winter, spring. Gross.

201, 202, 203. *Problems in Physical Education*.—Special problems, including administration of school programs, organization of athletic activities, relation of physical education to extra-curricular activities, organization of remedial programs. Problems selected will depend upon personnel of class. Prerequisite 30 credits in physical education. Credits to be arranged; autumn, winter, spring. The Staff.

PHYSICS

Denny Hall

Professor Osborn; Associate Professors Brakel, Anderson, McCurdy; Assistant Professor Utterback; Associates Marick, and Higgs.

Note: Students, not in engineering, who do not have credit for a year of high school physics, must elect Physics 4, 5, 6. Engineering students without credit for a year of high school physics may elect Physics 97, 98,

*Not offered in 1928-1929.

99, by registering for Section H in addition. For the present the H section will start with 97 in the autumn only.

1-2. *General Physics*.—Courses 1-2 will satisfy the physical science requirement in the colleges of Liberal Arts and Science. Prerequisite, a full year of high school physics. Lab. fee, \$2. Five credits a quarter; autumn, winter. Osborn.

3. *General Physics*.—Electricity. Required of physics majors, of mathematics majors taking physics as a minor; and of all pre-med students. Prerequisite, Phys. 1-2. Lab. fee, \$2. Five credits; spring. Osborn.

4-5. *General Physics*.—For students without a year of high school physics. These courses will satisfy the physical science requirement in the Colleges of Liberal Arts and Science. Lab. fee, \$2. Five credits; autumn, winter. Utterback.

6. *General Physics*.—Electricity. Prerequisite, Physics 5. Lab. fee, \$2. Five credits; spring. Utterback.

7. *Elementary Mechanics*.—For engineering students lacking the mechanics of high school physics. No credit; autumn. Utterback.

50-51. *Sound and Music*.—For fine arts students only. Lab. fee, \$2. Five credits a quarter; winter, spring. Anderson.

54. *Photography for Amateurs*.—Open to students who have had elementary physics or chemistry. Lab fee, \$2. Three or five credits; spring. Higgs.

89-90. *Physics of the Home*.—For students in home economics, nursing and women majors in physical education. Lab. fee, \$2. Five credits; autumn and winter. Osborn.

97. *Physics for Engineers*.—Mechanics. Prerequisites, high school physics or enrollment in Section H (See note), and twelve hours of mathematics. Lab fee, \$2. Five credits; autumn, winter, spring. Brakel.

98. *Physics for Engineers*.—Electricity. Prerequisite, Phys. 97. (See note). Lab. fee, \$2. Five credits, autumn, winter, spring. Brakel.

99. *Physics for Engineers*.—Light and heat. Prerequisite, Phys. 97. (See note). Lab. fee, \$2. Five credits, autumn, winter, spring. Brakel, Anderson.

101. *Introduction to Modern Theories*.—Atomic structure, properties of electrons and protons, origin and properties of radiation, radio-activity, ionization, presented from the experimental viewpoint. Prerequisite, Phys. 3. Lab. fee, \$2. Five credits. Two credits for graduate physics students. Autumn. Anderson.

105. *Electricity*.—Prerequisite, Physics 3 or 6. Lab. fee, \$2. Five credits; winter. Brakel.

*111. *Heat and Pyrometry*.

113. *Acoustics and Illumination*.—For students in architecture only. Prerequisite, Physics 2. Lab. fee, \$2. Four credits; spring. Osborn.

115. *Applications of Photography to Science Work*.—Prerequisite, special permission. Lab. fee, \$2. Three credits; winter. Higgs.

*Not offered in 1928-1929.

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

154. *Electrical Measurements*.—For engineering students. Prerequisite, Physics 97, 98, 99. Lab. fee, \$4. Three credits; autumn, winter, spring. Brakel.
156. *Applications of Thermonic Vacuum Tubes*.—Prerequisite, Physics 105 or 154. Lab. fee, \$2. Three credits; autumn. Higgs.
- *160. *Physical Optics*.
- 167, 168, 169. *Special Problems*.—Prerequisite, special permission. Credit arranged; autumn, winter, spring. Staff.
170. *Spectrometry*.—Prerequisite, 20 hours of physics. Lab. fee, \$2. Five credits; spring. Osborn.
- *185. *X-Rays and Radio-activity*.
- *191-192. *Analytical Mechanics*.

COURSES FOR GRADUATES ONLY

- *200-201-202. *Dynamics*.
- 203-204-205. *Theoretical Electricity*.—Three credits a quarter; autumn, winter, spring. Brakel.
- *206-207. *Vibratory Motion and Sound*.
- *210-211. *Quantum Theory and Atomic Structure*.
- *212. *Theory of Spectroscopy*.
- *213. *Fine Structure of Spectral Lines*,
- *215-216-217. *Seminar*.
- *220-221-222. *Electron Theory*.
- *223. *Gaseous Discharge*.
225. *Thermo Dynamics*.—Three credits; autumn. Utterback.
226. *Kinetic Theory of Gases*.—Three credits; winter. Utterback.
230. *X-Rays and Crystal Structure*.—Three credits; spring. Anderson.
- *240-241-242. *Theoretical Physics*.
- 250-251-252. *Research*.—Credit arranged; autumn, winter, spring. Staff.

POLITICAL SCIENCE

Philosophy Hall

Professors Martin, Schweppe, George; Assistant Professors Cole, Mander, Wilson; Instructors Hulse, Wilson; Teaching Fellows Warner, Brown.

The courses in political science are offered to meet the needs of the following groups: (1) students seeking sufficient political training to aid them in understanding their civic duties; (2) those desiring courses in political science as a part of their liberal education; (3) students who desire

*Not offered in 1928-1929.

to prepare themselves for positions in the public service, national, state and local, and the foreign service; (4) students seeking courses in political science which are preparatory and supplementary to their work in the following professional schools—law, education, business administration, and journalism; (5) those who desire that systematic and intensive training which will prepare them as teachers or investigators in political science.

Prerequisites.—The normal prerequisite for all courses in the department is Political Science 1. For upper division courses, Political Science 51, 52 and 53, and elementary courses in economics, history and sociology are strongly recommended.

Subject Groups.—The work of the department is divided into the following groups: I. Political Theory and Jurisprudence; II. International Relations; III. National Government; IV. Local Government. A major student must select any one group as his chief interest before proceeding with upper division courses.

The Major.—Candidates for the bachelor's degree with political science as a major must offer 36 credits in political science of which at least 18 shall be in upper division courses.

Major programs must be approved by the department.

Programs must include a sequence of courses amounting to 11 credits in one group and at least five credits in each of the remaining groups.

Graduate Study.—For admission to graduate courses and to candidacy for higher degrees, see the announcement of the graduate school. Candidates for higher degrees in political science must register in the graduate seminar during every quarter of their residence, and in two research seminars, one of which must be in the field of the special investigation.

LOWER DIVISION COURSES

Elementary Courses, Primarily for Freshmen.

1. *Comparative Government.*—A study of representative types of government; presidential, parliamentary, federal, unitary. A rapid survey of the governments of the United States, England, France, Switzerland, Germany, and Czecho-Slovakia, comparing them in regard to powers, forms of organization, and function. Brief discussion of political parties, elections, political ideas and foreign relations. Five credits; autumn, winter, spring.
Martin and Staff.

Intermediate Courses, Primarily for Sophomores

51. *Principles of Politics.*—A study of the origin, form, functions and nature of the state; its relations to individuals, to other states, and to other social institutions. Five credits; autumn. George.

52. *Introduction to Public Law.*—A detailed consideration of the relation of the state to the individual; constitutional guarantees; freedom of speech and of the press; fundamental concepts in constitutional, international, administrative and criminal law. Five credits; winter. George.

53. *Problems of Democracy.*—A consideration of problems peculiar to and growing out of the modern democratic state; problems of the electorate and of parties; popular methods of legislation. Five credits; spring. George.

UPPER DIVISION COURSES

Prerequisite: Political Science 1. Recommended: Political Science 51, 52 or 53, and one of the following courses: Economics 1, Sociology 1, History 1-2. No prerequisites for Political Science 101.

Required Course on Constitutional Government

101. *Constitutional Government in the United States and in the State of Washington.*—The framing of the American Constitution; the law of

the Constitution; the spirit of the Constitution; the Constitution of the State of Washington. No prerequisites. Required of all candidates for the bachelor's degree during their junior or senior years who graduate after January, 1927, except students who take one of the following courses: Pol. Sci. 1, 112, 153; Law 170, 171; or one of the following sequences of courses: Pol. Sci. 151 and 163; Hist. 60, 61, 62 and 163-164-165; Hist. 143, 144, 145 and 163-164-165. Two credits a quarter; autumn, winter, spring. Wilson, Meany.

Group I.—Political Theory and Jurisprudence

111. *History of Political Theory*.—A comparative study of ancient, mediæval and modern ideas and institutions of statehood; periods and schools in the development of political thought; recent tendencies. Three credits; autumn. Wilson.

112. *American Political Theory*.—American political ideas and the fundamental characteristics of the American political system; development of political thinking in the United States; ideas of the Revolution, the Constitution, the democracies of Jefferson and Jackson, the controversy over slavery and "states' rights"; recent developments. Three credits; winter. Wilson.

113. *Contemporary Political Thought*.—A study of recent and contemporary political ideas in Europe, America and the Orient; relation of the state to property and labor; questions of sovereignty and allegiance; recent political doctrines, including pluralism, socialism, syndicalism, etc. Three credits; spring. George.

118. *Elements of Law*.—The development of some of the more elementary rules of the common law; the definition, sources and sanction of law; the judicial system of the United States and of the state of Washington; law and the public service. Open to pre-legal students in the lower division. Five credits; autumn. Mander.

119. *Jurisprudence*.—Historical development of the science of jurisprudence; comparative legal systems; legal rights and duties; legal relations; fundamental legal theories; English and American legal institutions. Open to prelegal students in the lower division. Five credits; winter. Mander.

120. *Introduction to Roman Law*.—The political and sociological implications of Roman law doctrines based upon the Institutes of Justinian, together with a summary of their development in modern continental codes. The course is designed to provide students with a comparative viewpoint so as to enable them to appreciate more clearly the essential characteristics of English legal and political theory. Discussion, lectures, assigned readings. Open to pre-legal students in the lower division. Five credits; spring. Mander.

Group II.—International Relations

121. *Foreign Relations of the United States*.—Leading American foreign policies as regards Europe, Latin America and the Far East; the cardinal principles of American diplomacy; recent applications of the Monroe doctrine; the United States and the Great War; the League of Nations, and the Treaty of Versailles; contemporary questions of foreign policy. Three credits; autumn. Mander.

122. *Administration of American Foreign Affairs*.—Organization of

the Department of State; the diplomatic and consular services; American diplomatic machinery and procedure; powers of the President and Senate in foreign affairs; the making and enforcement of treaties; the war powers; American participation in international administrative and judicial agencies. Three credits; winter. Martin.

123. *International Relations*.—Evolution of the modern states system; alliances and the balance of power; leading principles of the European concert; geographic, economic, cultural, racial, psychological and social factors underlying international relations; the problems of diplomacy. Three credits; spring. Wilson.

125. *The Government of Dependencies*.—The government and control of the so-called backward peoples and areas of the world; colonial policies and administrative practices of the great powers; organization and administration of mandated territories under the League of Nations. Five credits; spring. Mander.

127. *International Organization and Administration*.—Early international federations; unions of nations; international conferences and commissions; international legislation; contemporary efforts at international organization, with special consideration of the League of Nations. Three credits; spring. Wilson.

128, 129. *International Relations of the Far East*.—The foreign relations of China and Japan; the rise of Japan as a world power; recent international conferences on the Pacific and Far Eastern questions. Five credits a quarter; winter, spring. MacNair.

International Law.—(See Law 184, 185). *Principles of International Law*.—The general principles of international law as developed by custom and agreement, and as exhibited in decisions of international tribunals and municipal courts, diplomatic papers, treaties, conventions, in legislation, in the works of authoritative writers, and in the conduct of nations. Three credits a quarter; autumn, winter. Martin.

Group III.—National Government

151. *American National Government*.—The formation and development of the American constitutional system; government under the colonies; the executive; the Congress; the courts; parties and elections; evolution through court decisions and political practice. Five credits; autumn. Hulse.

152. *American Political Parties*.—Party history; federal and state party organization; nominations and elections; party control of the legislature; the President as party leader; theory of American party divisions; American public opinion; campaign methods; party responsibility; the rise of blocs. Five credits; winter. Mander.

153. *Introduction to Constitutional Law*.—The American constitutional system; the American judiciary; powers of the federal government; the states and the nation; rights and duties of citizens; fundamental American constitutional doctrines; leading decisions of the supreme court. Five credits; spring. Hulse.

Constitutional Law.—See Law 171, 172.

155. *Principles and Law of Public Administration*.—The rights, duties and liabilities of public officers; the public service; relations between politics and administration; rules, regulations and general practices developed in the conduct of administrative commissions and boards; organization of

executive departments; administrative problems. Five credits; spring.

156. *European Governments and Political Institutions*.—A comparative study of European governments, mainly of the parliamentary type; the responsible ministry; relation between the executive and the legislature; the new governments of Europe. Five credits; autumn. Hulse, Mander.

158. *Governments and Politics of the Far East*.—A study of the government and politics of Japan, China, Siam, and of semi-sovereign, federated, and dependent political entities of the Far East. Five credits; autumn. MacNair.

159. *Government and Politics of the British Empire*.—A study of the political institutions of the British Commonwealth of Nations, including Canada, Australia, New Zealand, South Africa, and the Irish Free State; the Constitution of the Empire; the imperial conferences; the development of the principle of self-government in the dominions. Five credits; winter. Mander.

Group IV.—Local Government

161. *Municipal Government*.—History and growth of cities; forms of city government; the municipal council; the city courts; the city and the state; the charter; reforms in city governments; present-day issues in municipal government. Five credits; autumn. Hulse.

162. *Municipal Administration*.—The mayor; the city departments; the city employees; the civil service; city planning; water supply; streets and parks; waste disposal; health; police; fire protection; city revenues; education; public utilities; traffic regulation. Five credits; winter. Hulse.

163. *State Government and Administration*.—Colonial origins; state constitutions; the governor; the state legislatures; relation of the state to the nation; the states and law; popular methods of legislation; organization and methods of state administration; administrative reorganization of state governments, with special reference to Washington. Five credits; spring. Hulse.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Graduate Seminar*.—For candidates for higher degrees in political science. Two credits; autumn, winter, spring. Staff.

211, 212, 213. *Seminar in Political Theory*.—Readings and discussions based on the writings of first importance of the masters of political science. Two credits; autumn, winter, spring. George.

221. *Seminar in International Law and Diplomacy*.—Special subject for investigation. The organization and work of the Permanent Court of Arbitration. Two credits; winter. Martin.

251. *Seminar in American Government and Politics*.—Special subject for investigation: Current constitutional controversies in the United States. Two credits; autumn. Hulse.

256. *Seminar in Comparative Government*.—Topic: Dictatorship vs. Democracy. Two credits; spring. Mander.

261. *Seminar in Local Government*.—Topic: The Criteria of Good City Government. Two credits; winter. Hulse.

PSYCHOLOGY

Philosophy Hall

Professors Smith, Guthrie; Associate Professor Esper; Instructors Gundlach, Wilkinson; Assistant Hermans.

Students in the College of Liberal Arts, as well as in the College of Science, may major in psychology.

The Liberal Arts requirements are five credits in psychology.

Students who have shown an aptitude in psychology, and who consider taking extensive work in this subject, are invited to confer with members of the staff in order to plan their work to advantage.

Majors in psychology may count five hours in Phil. 1 or Phil. 101-102-103 toward satisfying their major requirement.

1. *General Psychology*.—A survey of the science as a whole. Man's original nature, the way in which nature is altered by use, and the common modes of individual and social behavior that result. No prerequisites. Two lectures, two discussion periods, and one 2-hour laboratory a week. Fee, \$1.50. Five credits; course repeated every quarter. Starr.

102. *The Neural Basis of Behavior*.—Contemporary neurological theory concerning action, the emotions, the regulatory functions, learning, and thinking. A fundamental course for majors and other students in psychology. Prerequisite, Psych. 1. Five credits; winter. Esper.

106. *Experimental Psychology*.—Students receive training in laboratory methods, are made familiar with the more important kinds of psychological apparatus, and perform many of the classical experiments in psychology. Prerequisite, Psych. 1. Three credits; winter. Esper.

107. *Advanced Experimental Psychology*.—Prerequisite, Psych. 106. Three credits; spring. Esper.

108. *Essentials of Mental Measurement*.—Ways in which experimental results are evaluated and treated. A knowledge of the subject matter of this course is necessary to the critical appreciation of all experimental findings. Required of majors in psychology. Prerequisite, Psych. 1. Five credits; winter. Guthrie.

109. *Mental Tests*.—Principles of experimental procedure. The preparation, evaluation, and application of tests. Essential to work in clinical psychology. Prerequisite, Psych. 1 and 108. Five credits; spring. Smith.

110. *History of Early Psychology*.—Origin and development of psychology, beginning with the primitive conception of mind. Prerequisite, 10 hours psychology. Two credits; autumn. Esper.

111. *History of Recent Psychology*.—The development of experimental psychology. Prerequisite, Psych. 110. Two credits; winter. Esper.

112. *Modern Psychological Theory*.—A criticism and comparison of the theories of living American and foreign psychologists in the light of recent experimental findings. This may be taken to advantage concurrently with 113. Prerequisite, Psych. 1. Three credits; spring. Guthrie.

113. *Structural Psychology*.—The nature and analysis of consciousness and the relation of consciousness to behavior. Prerequisite, Psych. 1. Two credits; spring. Gundlach.

114. *Current Psychological Literature*.—Reading and discussion in the direction of the student's particular interest, acquainting him with a wide

range of subjects and the new developments in psychology treated in recent books and journals. Prerequisite, 10 hours in psychology. Five credits; winter. Guthrie.

116. *Animal Behavior*.—A course in comparative psychology dealing with the beginnings and development of mind, as shown in the behavior of animals under natural conditions and in the laboratory. Prerequisite, Psych. 1. Three credits; autumn. Gundlach.

117. *Superstition and Belief*.—Why we are superstitious. The psychological analysis and the historical development of certain false opinions. Prerequisite, Psych. 1. Two credits; winter. Smith.

118. *Folk Psychology*.—A psychological study of social human nature; language, custom, public opinion, morals, war, family, caste, nationalism, religion. Prerequisite, Psych. 1. Five credits; autumn. Guthrie.

120. *Psychology of Beauty*.—The nature of appreciation and an analysis of the factors which bring it about. Prerequisite, Psych. 1. Two credits; autumn. Guthrie.

121. *Applied Psychology*.—Psychology as applied to such fields as personal efficiency, vocational guidance, scientific management, social work, law, medicine, athletics, and business. Prerequisite, Psych. 1. Five credits; winter. Gundlach.

124. *Psychology of Learning*.—How habits are formed. Efficiency in learning, transfer of training, recent experimental findings. Prerequisite, Psych. 1. Five credits; autumn. Esper.

126. *Abnormal Psychology*.—Description and explanation of abnormal behavior. Psychoneuroses, automatisms, "The Unconscious," dreams, and sleep. Prerequisite, ten credits in psychology. Five credits; spring. Guthrie.

131. *Child Psychology*.—Individual and social development and their causes, from infancy to adult age, with the purpose of giving the student a scientific understanding of childhood. Prerequisite, Psych. 1. Five credits; autumn. Smith

132. *Principles of Clinical Psychology*.—Methods of history taking, diagnosis and training of children brought for clinical examination. The analysis of special disabilities, social maladjustments, and individual traits in childhood. Prerequisite, Psych. 131. Three credits; spring. Wilkinson.

151, 152, 153. *Undergraduate Research*.—An opportunity, for promising students, to begin experimental work under direction. Prerequisite, 15 credits in psychology and permission of the department. Three credits each quarter. Staff.

COURSES FOR GRADUATES ONLY

Before a student registers for graduate courses, his topic for research must be approved by the department.

201, 202, 203. *Graduate Research*.—Each quarter. Credit to be arranged. Staff.

211, 212, 213. *Seminar*.—Open to all research students and majors. Two credits each quarter. Staff.

ROMANIC LANGUAGES AND LITERATURE

Denny Hall

Professors Frein, Ober, Umphrey; Associate Professors Patzer, Goggio, DeVries; Assistant Professors Chessex, Garcia-Prada; Instructors Whittlesey, Sanchez, W. Wilson, Simpson; Associates Hamilton, Southwick, Garcia; Assistant C. Wilson; Teaching Fellows.

Students entering with high school credits in French or Spanish will be admitted to classes upon the basis of one high school semester counting as the equivalent of one University quarter.

If, for any reason, a student who has done one year of French in high school needs to enter French 2 he will be given university credit therefor, but he will be required to finish French 3, 4 and 7 in fulfillment of the language requirement.

Exceptional cases will be determined by the executive officer of this department.

Students may not begin French I and Spanish I (nor Italian), during the same quarter; and it is better to have three quarters of one Romanic language before beginning another. If the entrance requirement in foreign language has not been fulfilled, no credits will be given for Courses 1, 2, 3, 4, and 7 in any of the Romanic languages. Freshmen and sophomores may enter any course, except graduate, for which they have the prerequisites. Graduate students working for the master's degree and offering a minor in French or Spanish will do not less than is required of majors working for the B.A. degree in this department.

I. GENERAL ROMANIC

34, 35, 36, or 134, 135, 136. *General Romanic Literatures.*—(Lower division students must use the numbers 34, 35, 36; upper division students must use 134, 135, 136.)

This course deals with a number of great French, Italian and Spanish literary monuments from an early period to the present time. Its purpose is twofold:

1. To familiarize the students through a comparative study of these masterpieces with the great literary monuments of each respective country, and in so far as it is possible, with their influence upon the literatures of the other two.
2. To present to the students a brief survey of these three great Romanic Literatures.

Lectures in English and collateral reading of English translations. No knowledge of French, Italian or Spanish necessary. For students majoring in any one of the Romanic languages, credits in this course shall count for either French, Spanish or Italian. Upper division students will be required to do a reasonable amount of extra reading for their credits. Course may be entered any quarter. Three credits each quarter, autumn, winter, spring. Goggio.

Vulgar Latin. (See Latin 285, 286).—Graduate students in this department who are working for the doctor's degree may be required to follow this course given in the department of Latin. Three credits a quarter; winter, spring.

II. FRENCH

Requirements of the department. Majors and all who wish to be recommended to teach French shall be required to take French 41, 101, 102, 103 or 107, 158, 159, Educ. 160T, and electives amounting to nine or ten credits in courses in French literature numbered above 117. At least four

of the nine or ten credits shall be in courses in literature conducted in French.

1-2, 3. *Elementary*.—As much as possible French will be used in the class room. Each of the courses 1, 2, 3, is repeated each quarter. No credit will be given for French 1 until 2 has been completed. Five credits a quarter; autumn, winter, spring.

4, 5, 6. *Reading of Modern Texts*.—Each of the courses 4, 5, 6, is repeated each quarter. French 4 may be combined with 7, making a five-hour course. The same is true of 5 and 8, 6 and 9. Prerequisite to French 4 is 3, or equivalent. Three credits a quarter; autumn, winter, spring.

7, 8, 9. *Grammar and Composition*.—Each of the courses 7, 8, 9, is repeated each quarter. Must be taken by majors in French, unless they have done the equivalent in high school. French 7 may be combined with 4. The same is true of 8 and 5, 9 and 6. Prerequisite to French 7 is 3, or equivalent. Two credits a quarter; autumn, winter, spring.

41. *Phonetics*.—Intended to furnish the student an opportunity to acquire a reasonably correct pronunciation and to bring more order out of what seems a mass of exceptions. Prerequisite, French 3. Three credits; repeated each quarter. Frein.

71, 72, 73, or 137, 138, 139. *Scientific French*.—For students in science. Reading in their special lines will be assigned to the students majoring in the several sciences. Conferences will afford an opportunity for individual work. Two credits. Students of the lower division should register for French 71, 72, 73; those of the upper division for French 137, 138, 139. Prerequisites, French 6 and 9 or an equivalent. Whittlesey.

101, 102, 103. *Composition and Conversation*.—With each of these courses is offered (at the same hour, but not on the same days) a course in advanced reading. See French 104, 105, 106. Prerequisites, French 6 and 9. Three credits a quarter; autumn, winter, spring.

Patzer, Chessex, DeVries, Whittlesey, Hamilton, Simpson.

104, 105, 106. *Advanced Reading*.—Courses to be taken with 101, 102, 103, if so desired, to make five-hour courses. Prerequisites, French 6 and 9. Two credits a quarter. French 101 and 104, 102 and 105 are offered each quarter; 103 and 106 are not offered in the autumn quarter.

Patzer, Chessex, DeVries, Whittlesey, Hamilton, Simpson.

107. *Themes*.—Writing of original compositions upon assigned topics. Prerequisite, French 103, or 102 with grade of A. Those taking French 107 are not required to offer 103. Three credits; spring. Chessex.

118, 119, 120. *Survey of French Literature*.—Lectures in English and collateral reading of English translation. Those who have studied French sufficiently will be assigned French texts to read. No prerequisites. Three credits a quarter; autumn, winter, spring. DeVries.

*121, 122, 123. *French Novel*.

124, 125, 126. *The Short Story*.—Course conducted in French. Development of the short story from the fabliaux to modern times. Special attention will be given to the masters of the French short story, Daudet, Maupassant, and Bazin. Prerequisite, French 6 and 9. Three credits a quarter; autumn, winter, spring. Chessex.

*Not offered in 1928-1929.

127, 128, 129. *Advanced Conversation for Majors*.—Open only to majors and to those who, by their preparation could qualify as majors. Careful preparation for each day's exercise will be required, and full credit given. Prerequisites, French 103 and 106, or equivalent. Two credits a quarter; autumn, winter, spring. Chessex.

131, 132, 133. *Lyric Poetry*.—Conducted in French. The best lyrics since the sixteenth century, especially those of Lamartine, Hugo and Musset. Rules of French versification. Prerequisite, French 106 or equivalent. Two credits a quarter; autumn, winter, spring. Chessex.

*141, 142, 143. *The French Drama*.

151, 152, 153. *History of the French Literature of the Nineteenth Century*.—Lectures in French and assignments of reading to be done outside of class. Prerequisites, French 6 and 9 or equivalent. Three credits a quarter; autumn, winter, spring. Patzer.

154, 155, 156. *Contemporary French Literature*.—A survey of French literature from 1900 to date. Lectures and assigned reading. Course conducted in English. Assigned reading in French for those who can read French; in English translation for those who do not know French. Prerequisite: Any student may enter this class if he has junior standing. Any freshman or sophomore may enter if he has had French 6 and 9, or equivalent. Three credits; autumn, winter, spring. Patzer.

158, 159. *Advanced Syntax*.—French Syntax from the teacher's standpoint. These courses are prerequisites to the teacher's course. Prerequisite, French 103 or 107. Two credits a quarter; autumn, winter.

Frein.

161, 162, 163. *Eighteenth Century Literature*.—Lectures in French, and assigned reading and reports. Prerequisite, French 6 and 9, or equivalent. Two credits a quarter; autumn, winter, spring. Patzer.

*171, 172, 173. *Seventeenth Century Literature*.

Teachers' Course in French.—See Educ. 160T.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Middle French and Sixteenth Century*.—Masterpieces of the fourteenth, fifteenth and sixteenth centuries will be read, and their influence upon later French literature studied. Open to graduates who have studied French at least four years. Two credits a quarter; autumn, winter, spring. Frein.

*211, 212, 213. *French Criticism*.

221, 222, 223. *Old French Readings*.—One of the most helpful courses for teachers of French. Open to graduates who have studied French at least four years. Graduates who are not French majors will translate the Old French into English; French majors will be expected to translate the Old French into modern French. Five credits a quarter in autumn and winter; two credits in spring quarter. Goggio.

231, 232, 233. *History of Old French Literature*.—Lectures in French on the entire field of Old French literature. Assigned reading in the chansons de geste, the Arthurian epic, and as many as possible of the masterpieces. For those who cannot read Old French, many translations into modern French are available. Prerequisite, four years of French, and graduate standing. Three credits a quarter; autumn, winter, spring. Frein.

*Not offered in 1928-1929.

*241, 242, 243. *French Historical Grammar.*

III. ITALIAN

No student will be allowed to begin Italian and French, or Spanish, the same year.

1-2, 3. *Elementary.*—No credit will be given for Italian 1 until 2 has been completed. Italian 1 is repeated in winter, and 2 in the spring. Five credits a quarter; autumn, winter, spring. Giuntoni.

111, 112, 113. *Modern Italian Literature.*—Prose and poetry of the eighteenth and nineteenth centuries. Lectures and collateral reading. Composition. Prerequisite Italian 3, or Italian 2 with grade of B. Three to five credits a quarter; autumn, winter, spring. Students must obtain the consent of the instructor to register for more than three credits. Goggio.

*118, 119, 120. *Survey of Italian Literature.*

*121, 122, 123. *The Italian Novel.*

181, 182. *Dante in English translation.*—The Divine Comedy of Dante will be read and studied to bring out the character of the imaginative and philosophical ideas contained in it, and the relation of these ideas to medieval thought. In Italian 181, given in the autumn quarter, Dante's Inferno and Purgatorio are studied, while the Paradiso is taken up in Italian 182, given in the spring quarter. No knowledge of Italian is necessary. Two credits a quarter; autumn, spring. Goggio.

184. *Renaissance Literature of Italy in English Translation.*—Stress will be laid on the works of Petrarch and Boccaccio especially, and on those of Machiavelli, Castiglione, Cellini, Ariosto and Tasso. Lectures in English and collateral reading. No knowledge of Italian is necessary. Two credits; winter. Goggio.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Early Italian Literature.*—Open to all students who can read Italian. Research according to ability and special interests of the students. Three to five credits; autumn, winter, spring. Goggio.

IV. PROVENÇAL

For Graduates

223. *Old Provençal.*—Readings, mostly epic and lyric. Three credits; spring. Goggio.

V. SPANISH

Requirements of the department: Spanish 159, 101, 102, 103, Educ. 160U, and at least nine credits of literature are required of majors and of all who wish to be recommended as teachers. Freshmen and sophomores may enter any course, except graduate, for which they have the prerequisite.

1-2, 3. *Elementary.*—Each of the courses 1, 2, 3 is repeated each quarter. No credit will be given for Span. 1 until 2 has been completed. Five credits a quarter; autumn, winter, spring.

4, 5, 6. *Reading of Modern Authors.*—Reading of some of the best works of the nineteenth century. Span. 4, 5, 6 may be combined with 7, 8,

*Not offered in 1928-1929.

9, making a five-hour course each quarter. Prerequisite to Span. 4, is 3 or equivalent. Three credits a quarter; autumn, winter, spring.

7, 8, 9. *Grammar, Composition, Conversation*.—May be combined with Span. 4, 5, 6, making a five-hour course. Prerequisite to Span. 7 is 3. Span. 7 is prerequisite to 8. Two credits a quarter; autumn, winter, spring.

101, 102, 103. *Advanced Composition and Conversation*.—Prerequisite Span. 9. Three credits a quarter; 101, 102 repeated each quarter; 103 in winter and spring. García, Sanchez, Wilson.

104, 105, 106. *Advanced Reading*.—Prerequisite, Spanish 6 and 9. This course should be taken with Span. 101, 102, 103. Two credits a quarter; 104, 105 repeated each quarter; 106 in winter and spring. García, Sanchez, Wilson.

118, 119, 120. *Survey of Spanish Literature*.—Selected texts, collateral readings, lectures. Prerequisite, Span. 6. Two credits a quarter; autumn, winter, spring. Umphrey.

*121, 122, 123. *The Novel*.

*131. *Lyric Poetry*.

141, 142, 143. *Spanish Drama*.—Origins and early development; the Golden Age; Modern Period. Selected texts, collateral reading, lectures, reports. Prerequisite, Span. 102 or equivalent. Three credits a quarter; autumn, winter, spring. Umphrey.

159. *Advanced Syntax*.—Problems in syntax studied from the teacher's standpoint. Prerequisites, Span. 101, 102. Three credits; spring. Ober.

184, 185, 186. *Spanish American Literature*.—Representative writings of Spanish American authors. Collateral reading and reports. Lectures. Prerequisites, Span. 102 or equivalent. Three credits a quarter; autumn, winter, spring. Umphrey.

Teachers' Course in Spanish.—See Educ. 160U.

COURSES FOR GRADUATES ONLY

221. *Old Spanish Readings*.—Reading and linguistic study of the Poema de mio Cid and other Old Spanish texts. Five credits; autumn. Umphrey.

231. *Epic Poetry*.—The epic material in Old Spanish literature and its later treatment in poetry and drama. Topics are assigned for special investigation and report. Five credits; winter. Umphrey.

241. *Spanish Historical Grammar*.—Five credits; spring. Umphrey.

COMPARATIVE PHILOLOGY

The following courses in comparative philology are available in the department of Scandinavian Languages and Literature:

190-191. *Introduction to the Science of Language*.—Two credits; autumn, winter. Vickner.

192. *Life of Words*.—Two credits; spring. Vickner.

*Not offered in 1928-1929.

SCANDINAVIAN LANGUAGES AND LITERATURE

Denny Hall

Professor Vickner

1-2-3. *Elementary Swedish*.—Grammar and reading; composition and conversation. Courses 1-2-3 are so arranged that they may be taken with 4, 5, 6, making a five-hour course. Three credits a quarter; autumn, winter, spring. Vickner.

4-5-6. *Swedish Reading Course for Beginners*.—Reading of easy texts. Supplementary to courses 1, 2, 3, but may also be taken separately by students desiring a reading knowledge of Swedish. No previous knowledge of Swedish necessary. Two credits a quarter; autumn, winter, spring.

10-11-12. *Elementary Norwegian-Danish*.—Grammar and reading; composition and conversation. Courses 10, 11, 12 are so arranged that they may be taken with 13, 14, 15, making a five-hour course. Three credits a quarter; autumn, winter, spring. Vickner.

13-14-15. *Norwegian-Danish Reading Course for Beginners*.—Reading of easy texts. Supplementary to 10, 11, 12, but may also be taken separately by students desiring a reading knowledge of Norwegian-Danish. No previous knowledge of Norwegian-Danish necessary. Two credits a quarter; autumn, winter, spring. Vickner.

20, 21, 22. *Norwegian-Danish Literature*.—Representative authors will be read. Prerequisite, ability to read easy Norwegian or Danish. May be entered at the beginning of any quarter. Two credits a quarter; autumn, winter, spring. Vickner.

23, 24, 25. *Swedish Literature*.—Representative authors in connection with a survey of the Swedish literature. Prerequisite, ability to read easy Swedish. May be entered at the beginning of any quarter. Two credits a quarter; autumn, winter, spring. Vickner.

103, 104, 105. *Recent Swedish Writers*.—Representative writers of the nineteenth and twentieth centuries, including Strindberg, Fröding, Selma Lagerlöf. Prerequisite, relatively fluent reading knowledge of Swedish. May be entered any quarter. Two to four credits a quarter; autumn, winter, spring. Vickner.

106, 107, 108. *Recent Norwegian-Danish Writers*.—Representative writers of the nineteenth and twentieth centuries are read, including Ibsen, Björnson, Kielland, Jacobsen, Hamsun, Bojer. Prerequisite, relatively fluent reading knowledge of Norwegian-Danish. May be entered any quarter. Two to four credits a quarter; autumn, winter, spring. Vickner.

109, 110, 111. *Modern Scandinavian Authors in English Translation*.—Ibsen, Björnson, Strindberg, Selma Lagerlöf and Hamsun. Open to all. No knowledge of the Scandinavian languages necessary. May be entered any quarter. One credit a quarter; autumn, winter, spring. Vickner.

180, 181, 182. *Recent Scandinavian Literature in English Translation*.—The principal writers of recent Scandinavian literature will be read. Lectures, reports and discussion. No knowledge of the Scandinavian languages necessary. May be entered at the beginning of any quarter. Two credits; autumn, winter, spring. Vickner.

COURSES FOR GRADUATES ONLY

*201-202. *Old Icelandic.*

*203-204. *History of the Swedish Language.*

205-206. *Scandinavian Literature in the Nineteenth Century.*—Two to four credits a quarter; winter, spring. Vickner.

*208. *Scandinavian Lyric Poetry.*

*209. *History of Scandinavian Literature.*

COMPARATIVE PHILOLOGY

190-191. *Introduction to the Science of Language.*—General principles of linguistic development with special reference to English. Lectures and discussions. Prerequisite, some knowledge of one of the classical languages and of one modern foreign language or Old English. Two credits; autumn, winter. Vickner.

192. *Life of Words.*—Etymology and semasiology; growth of vocabulary; word values. Lectures, discussions, and exercises. Prerequisite, same as for courses 190-191. This course is a continuation of courses 190-191, but may be taken separately. Two credits; spring. Vickner.

SOCIOLOGY

Philosophy Hall

Professors Woolston, McKenzie (Chairman); Associate Professor Price; Assistant Professors Hayner, Stern; Associates Hathway, ———; Assistants Guthrie, Rousseau.

Sociology treats of the development, organization and function of human groups. Its general purpose is to explain the relations of institutions; to stimulate a critical and constructive attitude toward programs of reform and furnish a sound basis of information for intelligent citizenship. It prepares for advanced study, field investigation, teaching and administration in community and industrial welfare, law, diplomacy, journalism, public health and institutional management; and supplements specialized training along these lines.

Sociology is related to many problems treated in biology, psychology, history, economics, politics, education, home economics, and literature. Majors are urged to consult members of the department staff regarding their elections. Work in other departments may be essential for success in this field, and may, when approved, be credited toward advanced requirements. Students should consult the department of sociology leaflet for a list of basic and supplementary courses.

Students are advised to postpone work in sociology until lower division requirements in biology, psychology, economics and political science are completed. *Sociology 1 or its equivalent is prerequisite for those majoring or taking systematic work in the department, and satisfies minimum requirements in this subject. The following are fundamental for advanced work and should be taken by major students before electing special lines: Courses 55, 66, 131.*

Further work is arranged along these lines:

A. Social Problems and Methods of Reconstruction offer prevocational instruction leading to two general lines of social work:

- (1) *Case and Group Work.*
- (2) *Community Organization.*

B. Social Theory and Methods of Investigation offer preliminary training and background for vocational use as follows:

(1) *Teachers of Social Science.*

(2) *Social Investigation.*

A plan for sequence of courses preparing for each of these lines of work may be found in the department of sociology leaflet.

For a major in sociology a minimum of 36 credits is required. At least 50 per cent of the hours in the major must be in upper division courses. Upper division courses should not be elected before such elementary work as instructors in special fields may suggest is completed. Courses numbered over 200 are for graduates. Advanced students are required to secure the approval of their program by the executive officer of this department before completing their registration. Graduate students must complete undergraduate requirements before being accepted as candidates for the master's or doctor's degree in sociology.

1. *Introductory Sociology.*—General survey of social relations, with discussion of the forces, practical problems and methods of solution. Required of all students who major in the department. (Juniors and seniors may substitute 150, General Sociology). Fee \$1.50. Five credits; autumn, winter, spring. Stern, Price, Hayner, and Associates.

55. *Human Ecology.*—Factors and forces which determine the distribution of people and communities. A study of ecological concepts and processes: position, location, mobility, dominance, aggregation, segregation, centralization, invasion, succession. Materials fee, \$2.50. Five credits; autumn, spring. McKenzie.

56. *The Family.*—Family and marriage customs among preliterate peoples; processes and mechanisms of family interaction; the family as an institution; the home; the family and the community; family disorganization and reorganization. Materials fee, \$2.00. Three credits; autumn, winter. Hayner.

57. *Child Welfare.*—Rights of childhood to health, education, recreation, protection; measures now in use to secure them. Three credits; winter. Hathway.

*61. *The Small Town.*

62. *Play and Leisure Time.*—The fundamental patterns, commercialization, institutional organization and ecology of recreational activity. Materials fee, \$2.00. Three credits; spring. Hayner.

63. *Community Organization.*—Social conditions and theories that underlie the modern community organization movement. Experiments and methods that have evolved to prevent disorganization. Case studies of attempts at community organization. Three credits; spring. Hathway.

64. *Field of Social Work.*—Historical background and development of social work as a specialized field. Present scope, aims and methods. Typical problems and agencies; field trips. Three credits; autumn. Hathway.

65. *The City.*—Factors determining the growth, structure and composition of cities. Case studies of typical cities throughout the world. Should if possible be preceded by Soc. 55. Five credits; winter.

66. *Group Behavior.*—Why associated persons act in characteristic manner. Analysis of conditioning factors and collective response in typical

*Not offered 1928-1929.

social groups, crowds, assemblies, parties, sects, etc. Prerequisite, five hours psychology and five hours sociology. Five credits; autumn.

Woolston.

67. *Urban Attitudes*.—Development of habits and standards in cities. Circumstances and interests controlling urban groups; economic, political and cultural peculiarities. Prerequisites, five hours psychology and five hours sociology. Five credits; winter.

Woolston.

68. *National Traits*.—Traditional differences between peoples. Historic backgrounds and prejudice. Problems of assimilation and amalgamation in America. Prerequisite, five hours psychology and five hours sociology. Five credits, spring.

Woolston.

80. *Social Pathology*.—The social factors involved and methods of dealing with physical defectiveness, feeble-mindedness, insanity, narcotics, alcoholism, prostitution, poverty, vagrancy, juvenile and adult delinquency. Five credits; autumn.

Hayner.

90. *Social Change*.—Innovation and conditioning factors. Sociological analyses and typical processes, contrasted with reform programs. Inertia, vested interests, leadership, trends. Prerequisite, five hours sociology or anthropology. Five credits, winter.

Price

*103. *Problems of Maladjustment*.

*105. *Industrial Groups*.

130. *Social Surveys*.—Methods of planning, conducting and presenting results of investigations of communities and institutions. Critical consideration of current methods. Lectures, problems and field work. Five credits; autumn.

131. *Social Statistics*.—Methods and sources for quantitative investigation, as applied to ethnography, demography, vital statistics, social maladjustment, and their related fields. Prerequisite Math. 13 or equivalent. Five credits; winter.

132. *Social Exhibits*.—Technique of preparing and exhibiting sociological data pertaining to community problems. Publicity devices, exhibits and campaigns. Five credits; spring.

140. *Population*.—A study of growth, composition and distribution of world populations. Three credits; autumn.

McKenzie.

141. *Migration*.—A study of human migrations, the factors determining them and the problems arising therefrom. Three credits; winter.

McKenzie.

142. *Race Invasion*.—General survey of race invasion and the conditions associated therewith; characteristic types of invasion; competition, segregation and dispersion as phases of the invasion cycle. Special attention given to race invasion on the Pacific Rim. Fee, \$2.50. Three credits; spring.

McKenzie.

144. *Social Frontiers*.—A study of demarcation between races, nations, classes, sects and parties; contact, defense and penetration of boundaries; lines of cleavage within communities. Prerequisite, 10 hours of sociology or equivalent. Three credits; autumn.

Woolston.

145. *Assimilation*.—The fusion of cultures; programs of nationalization; traditional and experimental methods of training for citizenship. Prerequisite, 10 hours of sociology or equivalent. Three credits; winter.

Woolston.

146. *Cooperation*.—Development of mutual aid in civilization; economic, political, and cultural forms; competition, monopoly and copartnership; means of expanding federation; consensus and concurrence. Prerequisite, 10 hours of sociology or equivalent. Three credits; spring.

150. *General Sociology*.—Major concepts of sociology and the scientific point of view in dealing with social phenomena. Prerequisite, junior standing and Soc. 1, or 10 hours in social science and psychology. Five credits; autumn, spring. Price.

*151. *Social Conflict*.

*152. *Social Control*.

153. *Problems of Poverty*.—History and ecology of poverty and relief. Individual and social causes underlying destitution. Modern methods of approach to problems of prevention and relief. Five credits; winter. Hayner.

*154. *Charity Organization and Administration*.

155. *Social Legislation*.—An historical and critical analysis of the programs of social legislation in relation to child welfare and factory legislation in the United States and Europe. Five credits; spring. Hathway.

156. *Criminology*.—Social, economic and hereditary causes of crime. Study of the criminal and his group relations. Five credits; spring. Hayner.

158. *Personality Problems*.—Survey of the literature on personality; case studies of personality problems. Materials fee, \$2.00. Two credits; autumn. Hayner.

*159. *Penology*.

*160. *Liberty*.

*161. *Equality*.

*162. *Fraternity*.

164. *Social Education*.—Purpose, content and method of courses intended to promote good citizenship. Critical discussion of programs and texts used in Washington schools. Recommended for teachers of social science subjects. (Prerequisite, fifteen hours social science.). Two credits; spring. Woolston.

171-172. *Social Case Work*.—Principles and methods of family case work; specialization of methods in care of the sick, children, the homeless, etc. Two hours class work, twelve hours supervised field work with local agencies. Prerequisite Soc. 64 or permission of instructor. Five credits; autumn, winter. Hathway.

*174. *Club Organization and Leadership*.

175. *Social Work and Health*.—Introduction to the point of view and method of social case work. Open to students from the department of Nursing Education, and to others with permission of instructor. Two hours class, 12 hours supervised field work. Five credits; autumn. Hathway.

178. *Social Work and the State*.—An introductory course presenting a general view of state participation in social work in the United States and Europe. Five credits; winter.

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184. *Cultural Contact (The Pacific Rim)*.—Routes and areas. Incentives and organizations involved—economic, missionary, diplomatic, etc. Problems of divergence in social ritual, technique, ideology, status. Prerequisite, 10 hours sociology or equivalent. Three credits, autumn. Price.

185. *Cultural Conflict (The Pacific Rim)*.—Friction and norms of adjudication; status, disorganization, and self-defense; funding attitudes; shifting regions of discussion and compromise; accentuators. Prerequisite, 10 hours sociology or equivalent. Three credits; winter. Price.

186. *Culture Accommodation (The Pacific Rim)*.—Effects of alien products and techniques; group-defense innovations; imported institutions. Cultural self-differentiation. Aims, traits, and trends. Prerequisite, 10 hours sociology or equivalent. Three credits; spring. Price.

191. *Advanced Case Work*.—Methods of social work in a selected field. Two hours class; twelve hours supervised field work. Prerequisite, 171-172 or equivalent. Five credits; spring. Hathway.

*191-192. *Advanced Case Work*.

194. *History of Social Thought I: From Primitive Times to the Industrial Revolution*.—Movements in social thought will be presented through the teachings of outstanding representatives who will be interpreted in their cultural, economic, ideological, political, and religious setting. Prerequisite, 10 hours sociology or equivalent. Five credits; autumn. Stern.

195. *History of Social Thought II: From the Industrial Revolution to Contemporary Times*.—Prerequisite 10 hours sociology or equivalent. Five credits; winter. Stern.

*196. *Recent Social Thought*.

197. *America in Civilization*.—The processes at work in the formation of the American culture pattern will be analyzed in terms of culture accumulation and diffusion, cultural inertia and cultural lag. Five credits; spring. Stern.

COURSES FOR GRADUATES ONLY

200. *Secret Societies*.—Growth, organization and activity of mystery groups—fraternal, religious, craft and political. For advanced students in social psychology. Two credits; autumn. Woolston.

201. *Public Opinion*.—Character and operation of beliefs formed by general discussion. Problems of propaganda, criticism and education. Advanced students only. Two credits; winter. Woolston.

207-208-209. *Community Research*.—Original investigation of special community problems. Prerequisite, graduate standing. Two credits a quarter; autumn, winter, spring. McKenzie.

210-211-212. *Departmental Seminar*.—Open to graduate students completing independent investigations and to instructors in the department. Two credits each; autumn, winter, spring. Members of the department.

ZOOLOGY

Science Hall

Professor Kincaid; Associate Professors Guberlet, E. V. Smith; Assistant Profesors Miller, Hatch; Instructor Mentzer.

1-2. *Elements of Zoology*.—General review of zoological science, stressing the philosophic and economic aspects of the subject. Lab. fee, \$2. Five credits a quarter; autumn, winter, repeated winter, spring.

Kincaid, Hatch and Assistants.

3-4. *Pre-Medical Zoology*.—For students entering a medical course. Lab. fee, \$2. Five credits a quarter; autumn, winter. Guberlet.

5. *General Embryology*.—Comparative developmental history of animals, with emphasis on vertebrate forms. Prerequisite, Zool. 1-2, or 3-4. Lab. fee, \$2. Five credits; spring. Guberlet.

16. *Evolution*.—Lectures on the more important biological problems related to the general theory of evolution. Two credits; autumn.

Kincaid.

17. *Eugenics*.—Principles of evolution in their relation to human welfare. Two credits; winter, spring. Kincaid.

101. *Cytology*.—The structure and activities of the animal cell with special reference to problems of development, sex-determination, and heredity. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$2. Five credits; spring. Miller.

102. *Experimental Zoology*.—An experimental study of the organism as a dynamic unit, including problems of development, growth and regeneration, and response to external factors. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$2. Five credits; spring. Miller.

106. *Plankton*.—Classification, adaptations and interrelationships of the microscopic fauna of the sea. Field work in Puget Sound. Prerequisite, Zool. 1-2. Lab fee, \$2. Five credits; autumn. Kincaid.

107. *Parasitology*.—Animal parasites. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$2. Five credits; spring. Guberlet.

108. *Limnology*.—Classification and interrelationship of the organisms found in lakes and streams. Field work in the neighboring fresh-water bodies. Prerequisite, Zool. 1-2. Lab. fee, \$2. Five credits; spring.

Kincaid.

111. *General Entomology*.—(Alternate with 112. Not given in 1928-1929).

112. *Insect Morphology*.—The structure and taxonomy of insects. Prerequisite, Zool. 1-2 or equivalent. Lab. fee, \$2. Five credits; spring. (Alternate with 111. Not given in 1929-1930). Hatch.

121. *Microscopic Technique*.—Methods of imbedding, sectioning and staining animal tissues. Prerequisite, Zool. 1-2 or its equivalent. Lab. fee, \$2. Three credits; winter. Guberlet.

125, 126. *Invertebrate Zoology*.—The morphology, physiology, life history and habits of invertebrate animals, with special reference to the local marine fauna. Prerequisite, Zool. 1-2 or 3-4. Lab fee, \$3.50. Five credits a quarter; autumn, winter. Miller.

127, 128. *Comparative Anatomy*.—Comparative structure of the vertebrate animals. Prerequisite, Zool. 1-2 or 3-4. Lab. fee, \$3.50. Five credits a quarter; autumn, winter. Miller.

**155, 156, 157. *Elementary Problems*.—Students will be assigned minor problems under direction of an instructor in the department. Prerequisite, twenty hours in zoology or physiology. Lab. fee, \$2. Three credits; autumn, winter, spring. Staff.

Teachers' Course in Zoology.—See Educ. 160Z.

COURSES FOR GRADUATES ONLY

201, 202, 203. *Research*.—Students capable of carrying on independent work will be assigned problems under direction of an instructor. Prerequisite, twenty-five hours of zoology. Credit to be arranged. Lab. fee, 50c per credit hour. Staff.

205, 206, 207. *Advanced Problems*.—Designed especially for graduate students working for the doctor's degree. Hours and credits to be arranged. Staff.

210, 211, 212. *Seminar*.—Reports and discussions of current zoological literature. The history of zoology. One credit; any quarter. Staff.

PHYSIOLOGY

6. *Elementary Physiology*.—Human structure and function, designed to meet the needs of students in pharmacy. Lab. fee, \$3. Five credits; autumn. Mentzer.

7. *Elementary Physiology*.—Structure and functions of the human body, with special emphasis on metabolism, and the nervous and vascular systems. Lab. fee, \$3. Five credits; autumn, winter, spring. Mentzer, Smith.

20. *Physiology for Hospital Students*.—A special course for hospital students. Two credits; autumn, winter, spring. Mentzer, Smith.

53-54-55. *Physiology*.—Adapted to meet the requirements of students expecting to teach the subject in high school. Required of students majoring in physical education and nursing; recommended for students in dietetics and in sanitary science. Lab. fee, \$4. Five credits; autumn, winter, spring. Smith.

115. *Principles of General Physiology*.—Application of the laws of physics and chemistry to physiological processes. Prerequisite, one year each, zoology, chemistry and physics. Lab. fee, \$3. Five credits; winter. Mentzer.

151-152-153. *Advanced Physiology*.—Arranged for students in medicine and advanced students who wish to make a careful study of experimental methods. Prerequisite, Zool. 1-2, Chem. 23 and Phys. 3. Lab. fee, \$5. Five credits a quarter; autumn, winter, spring. Smith.

**Will be offered if a sufficient number of students elect the course.

SUMMER QUARTER

Burd, Henry A., Ph.D.....*Director*

Facilities.—The summer quarter is an integral part of the University year and its courses coordinate with those of the other quarters. It offers special opportunities for teachers and others whose regular work is suspended during the summer months.

Regular work is offered in the Colleges of Liberal Arts, Business Administration, Fine Arts, Science, the Graduate School, the Schools of Education, Journalism, and Law, and in the pre-medical course. The Puget Sound Biological Station at Friday Harbor maintains a session of nine weeks.

The laboratories and libraries are open and the various departments offer both undergraduate and graduate work equal in quality to that maintained during the rest of the year. In most departments three grades of work are offered: (a) courses for beginners, (b) courses for advanced undergraduates, and (c) courses for graduate students. In a large number of cases, heads of departments are in charge of the work. In addition to regular members of the faculty prominent teachers from other universities and from the public schools give courses.

For Whom Intended.—The summer quarter affords special opportunities for the following classes of persons:

1. Regular students who wish to take their vacation during some other quarter, who have work to make up, or who, by attending the four quarters each year, wish to complete the college course in three years.
2. College and university graduates who wish to specialize in some particular field or to work for advanced degrees.
3. Recent high school graduates who expect to enter the University in the fall and wish to become familiar with the University before that time. High school pupils find this a very advantageous plan.
4. Superintendents and principals who wish to acquaint themselves with recent progress in education or to study special problems.
5. High school teachers who wish to advance in their special lines of work.
6. Supervisors and teachers of music, domestic science, drawing and other special fields of work, who find many courses suited to their needs.
7. School teachers who wish to work toward college degrees.
8. Directors of gymnasiums and teachers of physical education and playground work. The University campus offers unusual opportunities for playground demonstration, and special emphasis is placed on this important phase of education. The city of Seattle and the public schools afford splendid objective illustrations of playground and recreation centers.
9. Persons desiring training in child welfare work, social workers, Y.M.C.A., Y.W.C.A. directors and teachers.
10. County superintendents who desire to study problems of rural school organization and social center and community center work.
11. Candidates for certificates who need special courses in education and psychology or other subjects.
12. Persons who are preparing to become specialists in college and normal school positions.
13. Persons who desire practical field work in botany, geology and zoology in a region possessing unique facilities.
14. Students who wish regular courses in law or special courses in law in preparation for teaching the commercial branches.

Registration.—Registration for the summer quarter of 1929 may be completed on or before Saturday, June 15, at 4:30 p.m. Students expecting to be in attendance during the last term only may register on or before Wednesday, July 24, at 4:30 p.m. Students should go first to Education

Hall, where they will be directed as to the proper order of procedure in registration. Students living outside of Seattle may, with the consent of the Registrar, register by mail. Write for application form.

Students desiring to enroll in any college or school of the University will be directed by the registrar to the registration officers of the respective divisions for assistance in the election of studies.

Admission.—The courses of the summer quarter are open to all persons eligible for admission to the University as either regular, unmatriculated, transient, or special students. As far as possible, all credentials for prospective students and applications for admission as unmatriculated, transient, or special students should be in the hands of the Registrar before the opening of the session.

Credits.—Students desiring university credit will be required to pass examinations during the closing week of each term.

Amount of Work Registered For.—No student shall be registered for less than 12 hours nor more than 16 hours except by consent of his dean. With the consent of his dean a junior or senior whose previous scholastic record has been exceptionally good may be registered for a maximum of 10 hours for either term, or 18 hours for the entire quarter.

Persons expecting to be candidates for any degree or the normal diploma at the close of the quarter, should make application through the registrar on registration at the beginning of the session.

Fees.—The regular tuition fee of twenty-five dollars (\$25) is required of all students, and admits to all the privileges of the summer quarter, except certain laboratory courses, the Law School, and special music courses requiring individual instruction. (See the statements of these courses for the special fees.) No reduction of fees will be made because of late registration or early withdrawal. Open lectures are free to all students regularly registered in the summer quarter and to the public.

Master's Degrees Through Summer Quarter.—At each succeeding summer quarter a large number of graduate students are in attendance. Last summer about a third of the whole number of attendants were graduate students. Many were planning definitely to apply their work toward higher degrees. The University will accept 36 credits earned during at least three summer quarters as a fulfillment of the year of required residence.

Home Study Courses.—The University has established home study courses in many departments. These will be of special advantage to students who have been in attendance at summer quarters and who wish to go forward to the bachelor's or the advanced degrees. The correspondence work can be advantageously planned as a continuation of the regular summer quarter. For detailed information concerning correspondence courses communicate with the Extension Service.

Education.—The summer quarter and the School of Education stand in very close relations to each other. Those who plan to obtain a degree, or a normal diploma, through the School of Education can accomplish much in summer quarters.

Business Administration.—An interesting curriculum of business courses is offered in the summer quarter for students who contemplate going into business. These courses are in the fields of Accounting, Economics, Finance, Foreign Trade, Labor, Management, Marketing, and Transportation. Teachers of commercial subjects will also find courses of special importance in preparation for their work.

For bulletin of the summer quarter address the publications editor, University of Washington. For other information address Henry A. Burd, Director of the Summer Quarter.

PUGET SOUND BIOLOGICAL STATION

FRIDAY HARBOR, WASHINGTON

Frye, Theodore Christian, Ph.D.....Director

The Puget Sound Biological Station is near Friday Harbor, Washington, the county seat of San Juan county. The population of the town is approximately 400. It is between Bellingham and Victoria, 30 miles from the former and 20 from the latter, in a direct line. The Station site is about a mile from the town by water, and about two miles by land. The town contains a bank, drug store, butcher shop, bakery, hardware store, garage, and a number of grocery and other stores; so one can make ordinary purchases there.

San Juan county consists of an archipelago of something like 100 islands, separated by channels cut by glacial action. The northern islands of the county are composed of sandstone, comparatively easily eroded, and wearing into potholes. In the sandstone are occasional beds of fossils, notably on the Sucia Islands. On Waldron Island and the Sucia islands the sandstone was formerly cut for paving blocks for city streets.

Some of the islands are partly limestone, notably the north end of San Juan and the west side of Orcas. The largest lime works in Washington is at Roche Harbor, at the northwest corner of San Juan Island. However, comparatively little of the shore line of the archipelago is limestone.

Most of the islands are composed of metamorphic rock, which is very resistant to weathering and therefore changes very little. This is one of the reasons for the remarkable wealth of fauna and flora. Here and there are beaches of glacial material, or of sand, or flats of mud. There are no large streams on the island, and therefore the water is exceptionally free from river detritus. Through the channels between the islands the tides rush at times with a velocity of seven to ten miles an hour, filling and again draining the Gulf of Georgia. The gulf is a body of water roughly 100 x 20 miles, and the spring tides are about twelve feet. The channels in the Friday Harbor region are the chief points of entrance and escape for this immense volume of water. Thus the rocky points are swept clean of erosion deposits, the water is constantly aerated and changed, and a good habitat for water forms is insured. Some of the channels are 100 fathoms deep, thus affording opportunity for the study of forms and life from a considerable depth. Those who have been at the Station have again and again attested to the abundance of marine life. A 12-foot tide exposes a wide beach, and gives excellent opportunity for the study of shore life.

Grounds and Buildings.—The site consists of 485 acres north of the town. Fresh water is piped in, and salt water is pumped from the sea. The laboratories are only a few yards from high tide. Four laboratories, about 24 x 56 feet, are completed. These are built of cement, hollow tile, plaster, and roofing tile. They are permanent and practically fireproof. A permanent stockroom has been completed during the past year. A kitchen and dining room, permanent in structure, accommodating 200, was built in 1924. The dining room also serves as a library.

Stockroom.—Compound microscopes of simple make are supplied for class use from the University of Washington. Certain ordinary glassware, containers, and preservatives may be secured at the stockroom. It is the aim to have in the stockroom the things ordinarily called for. Unusual things cannot be supplied. Those wishing special apparatus should write to the director. Rowboats are on hand for general use. It is best for research workers to bring their own microscopes. Instructors, assistants and students alike are charged with whatever they draw out of the stockroom.

The Station owns its own trawling boat, the gift of Robert Moran, of Rosario, Washington.

GENERAL INFORMATION

Lectures.—General lectures by the station staff or by visitors are given as the occasion arises.

Registration.—Experience has shown that it is wiser to register for one University course only, and all work is planned on that basis. Advanced students have found it profitable to begin some line of investigation in the same field in which they are carrying a course. All registration is at the station.

Credit.—Students giving their whole time to the work may earn 13 credits in 9 weeks. All University credit is recorded in the Station books in per cent; 70 per cent is the minimum for passing. Credits may be transferred directly from the Station books.

Expense.—The first three items are for the whole term or any considerable part thereof:

Tuition fee (Normal Courses \$15.00).....	\$20.00
General laboratory fee.....	5.00
Tent, two or more per tent, each.....	6.50
Board, \$5.50 per week in advance.....	49.50
Stockroom, breakages, etc., (estimate).....	3.00
Books (estimate)	2.00
Incidentals (estimate)	5.00
Total.....	<u>\$91.00</u>

The tuition goes toward paying the running expenses; the laboratory fee is for the maintenance of the equipment, not for stockroom breakages and losses.

For persons occupying the research rooms the total Station fee is \$50, covering tuition and laboratory fees.

The tents are mostly 10 x 12 feet, on board platforms with three-foot board wall, making the lowest part about five feet. Included in the rent are bed springs or cots, mattresses, camp chair, bucket, wash basin, and tumblers. During the time before and after the session the rental is \$1 a week, and the general fee is \$1 per week. Kerosene stoves may be rented for \$2.50 for the season. Bedclothes and pillows are not furnished, but they may be bought at the village. Persons coming to the Station should bring a sufficient supply of bedding for cold nights. A deposit of \$6.50 reserves half a tent for the 9 weeks. The tent sites are not equally desirable; and sometimes the demand exceeds the supply, but there has always been room in the village.

The combination living room, library and dining hall is 35 x 82 feet, with two alcoves for books, and seats 200 at meals. The floor is maple. Connected are kitchen and baths with cemented floors. The dining service is managed by the University of Washington Commons.

Library.—The library contains about 1500 volumes, of which about 250 are bound volumes of reprints. A limited number of books are shipped to the Station every summer from the University of Washington.

For bulletin of the Puget Sound Biological Station address the publications editor, University of Washington. For other information address T. C. Frye, Director of the Puget Sound Biological Station, University of Washington, Seattle.

THE UNIVERSITY EXTENSION SERVICE

ADMINISTRATIVE OFFICERS

Spencer, Matthew Lyle, Ph.D. (Chicago); LL.D. (Northwestern) ..*President of the University*
Thomson, David, B.A. (Toronto).....*Dean of Faculties*
Padelford, Frederick Morgan, Ph.D. (Yale).....*Assistant Dean of Faculties*
Smith, Harry Edwin, Ph.D. (Cornell).....*Acting Director of the Extension Service*

THE FACULTY, 1928-1929

The Extension faculty is composed of members of the general faculty who give extension courses and of the following instructors on the extension staff:

Gillette, Alletta Maria, M.A. (Washington).....*Instructor in English*
Dvorak, H. Dealy, Ph.D. (Brown).....*Associate in Educaation*
Henderson, W. B.....*Associate in Business Administration*
Farwell, Raymond F., M.A. (Washington).....*Associate in Business Administration*
Crockett, Mildred, M.A. (Washington).....*Associate in English*

GENERAL STATEMENT

The Extension Service of the University of Washington provides university instruction by mail and in extension classes and lectures for those who cannot give full time to university study.

This service was organized in 1912. More than eighteen thousand students have been enrolled, a large number of whom have earned credits through extension study toward a university degree. Others have taken this work for the practical business values, greater professional and technical skills, and purely cultural satisfactions of wider reading and finer appreciations.

The Extension Service presents for 1928-1929 the following activities:

1. Evening Campus Classes
2. Off Campus Classes (Seattle, Everett, Tacoma)
3. Home Study
4. Graduate Medical Lectures
5. Graduate Nurses' Institute
6. Firland School for Nurses

About four hundred courses are available either through correspondence or in classes, at moderate fees. This Service is an integral part of the University, and is maintained by the State for educational services to those engaged in gainful employment who desire to pursue advanced study.

UNIVERSITY CREDIT

Most of the courses at present offered by correspondence may be taken by properly qualified students for credits toward a university degree. Applicants for enrollment wishing to take courses for credit should send their credentials for entrance to the University, with their application, if these credentials are not already on file with the Registrar of the University. Credit work is of course subject to all rules and regulations of the University that are applicable. The work must be thorough, must show creditable grade and must be completed within a reasonable time, which is estimated to be not more than one year for five credit courses and proportionally less for shorter courses.

These qualifications are clearly stated, so that there may be no disappointment from expectations that cannot be fulfilled of an easy road to a degree. Home study and evening classes are not such a road. The work is slow and laborious; but it is worth all the time and money that it costs if considered from the standpoint of its value in scholarship, the pleasure that may be had from this mode of using one's time, and the widening of the horizon of one's mind.

HOME STUDY COURSES AND UNIVERSITY DEGREES

Students who are unable to spend in residence the full number of years required for a university degree may take as many as half of the required credits for graduation through Home Study, provided that not less than one year of work is done in residence at the University of Washington. But in the senior year at least 36 of the 45 credits must be earned in residence. For such Home Study courses, the student should plan well in advance and with the advice of University authorities. The studies required in the freshman and sophomore years are more largely available for Home Study. Therefore, to make a combination of Home Study and residence study, students should plan for the first rather than the latter part of the University course in Home Study.

Requirements for the University life diploma may be satisfied in part by Home Study credits.

Nine credits may be earned in approved Home Study courses toward the master's degree.

TUITION FEES

Moderate fees have always been charged by the University of Washington for extension instruction. It is proper that the individual directly benefited should pay his part toward the support of this work. The following requirements and conditions should be thoroughly understood:

Fees are due and payable at the time of enrollment and no fees are refunded except upon rejection of the student or failure to give the course, or if the student is compelled to drop the course by conditions beyond his control. Enrollment constitutes an agreement on the part of the student to complete the course and he must take the responsibility for any failure on his part to do it.

Fees are based upon a uniform charge of \$4 per credit hour. Extension courses cost, therefore: \$8 for a two-hour course; \$12 for a three-hour course; \$16 for a four-hour course; \$20 for a five-hour course.

HOME STUDY COURSES

The number and subjects of courses offered for Home Study vary from time to time. There are three hundred courses in nearly ninety subjects now organized. Present plans call for the development of the Home Study curricula to a total of more than three hundred fifty courses. Many courses have been offered for several years; others are entirely new. All have been adjusted to the special needs of Home Study students.

Home Study Courses of Instruction.—Anthropology, astronomy, botany, chemistry, classical languages and literature, dramatic art, economics and business administration, education, engineering, English language and literature, geology, Germanic languages and literature, history, home economics, hygiene of maternity and infancy, journalism, mathematics, music, navigation, nursing, painting, sculpture and design, philosophy, political science, psychology, Romanic languages and literature, Scandinavian languages and literature, sociology, zoology.

The University reserves the right to change this list without notice. Faculty changes, the publication of new textbooks, changes in the material to be emphasized may compel the withdrawal or shifting of courses. It is planned to keep the list of courses revised and as nearly permanent as circumstances warrant.

GRADUATE MEDICAL LECTURES

In cooperation with the Washington State Medical Society and the King County Medical Society, the twelfth Graduate Medical Lectures were

held July 16 to 20 inclusive, 1928. The lecturers were Frank H. Lahey, Harvard University; James B. Herrick, Rush Medical College; J. Whitridge Williams, Johns Hopkins; Andrew C. Ivy, Northwestern Medical School; and John Martin Wheeler, University and Bellevue Hospital Medical College.

FIRLAND COURSE IN PUBLIC HEALTH NURSING

The University of Washington Department of Nursing Education, through the Extension Service, offers a course in public health nursing to graduate nurses at Firland Sanatorium. A two-year curriculum covering 22 credits of advanced University work is offered.

GRADUATE NURSES' INSTITUTE

In cooperation with the Washington State Graduate Nurses' Association, the Washington League of Nursing Education and the State Public Health Nurses' Organization, the University of Washington Department of Nursing Education through the Extension Service conducted the Fifth Graduate Nurses' Institute, July 23 to 28, inclusive. The faculty consisted of Miss Annie W. Goodrich, Dean Yale School of Nursing, New Haven, Conn.; Miss Mary Roberts, New York City; and Philip Jacobs, New York City.

HYGIENE OF MATERNITY AND INFANCY

The University Extension Service cooperates with the Washington State Department of Health, Division of Child Hygiene, and the Children's Bureau of the United States Department of Labor, in conducting a course in the Hygiene of Maternity and Infancy. This is a home study course in which more than 120 mothers enrolled during the year 1927-1928. This course does not give University credit and there is no fee for enrollment.

OFFICE OF PUBLICATIONS

Commerce Hall

Westmoreland, Harriett.....*Publications Editor*

All official publications of the University of Washington are issued under the direction of the publications editor.

The publications of the University consist of the University of Washington Publications, the publications of the Engineering Experiment Station, the Puget Sound Biological Station Series, and the University of Washington Bulletin. For a detailed list of these publications, address the office of publications.

The University of Washington Publications are issued in separate monographs and volumes, and contain the results of research work in various departments of the University. They include the following series: Anthropology, Fisheries, Geology, Language and Literature, Mathematics, and The Social Sciences. These publications are offered in exchange for similar publications issued by universities, learned institutions and societies, and libraries. All matter sent in exchange should be addressed to the University Library. Inquiries regarding purchase of these publications should be addressed to the publications editor.

The Publications of the Engineering Experiment Station include bulletins of information and investigation concerning engineering and scientific problems. Requests for these publications should be made to the Director of the Engineering Experiment Station, University of Washington.

The Puget Sound Biological Station Bulletins are based on the investigational work carried on at the Friday Harbor Station, and are issued at irregular intervals during the year. Orders for these monographs should be sent to the Director of the Puget Sound Biological Station, University of Washington.

The University of Washington Bulletin, General Series, includes the general catalogue and special announcements of each school and college, Summer Quarter bulletin, Extension Service bulletin, and the University Directory, each of which is issued annually. The general catalogue is limited to exchange purposes; the circulars of information are sent free on application to the Registrar of the University.

The Washington Historical Quarterly is issued at the University under the auspices of the Washington University State Historical Society, and is devoted to the history of the Pacific Northwest. For information, address the business manager, Washington Historical Quarterly, Library, University of Washington.

The University of Washington Forest Club Quarterly is published by the members of the Forest Club. For numbers of the Quarterly, address College of Forestry, University of Washington.

The Murrelet, bulletin of the Pacific Northwest Bird and Mammal Society, is published by the Washington State Museum every four months. The bulletin deals directly with the bird and mammal life of the Pacific Northwest. Address, Washington State Museum, University of Washington.

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DEGREES

CONFERRED JUNE 13, 1927

BACHELOR'S DEGREES

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

- | | |
|---|---|
| <p>Ackley, Elene (<i>cum laude</i>)
 Ailshie, William Knight
 Aitchison, Helen
 Aldrich, Berta H.
 Allen, Capitola Pinches (<i>cum laude</i>)
 Allen, Edithanne
 Altergott, Alexander Jr.^D
 Ashton, Philip Frederick^D
 Aumann, Dorothy Maud^M</p> <p>Baldwin, Wilden H.
 Barclay, Margaret Martin
 Bartine, Wesley Bartholomew
 Bartlett, Louise Isobel
 Beal, Maud Layton^D
 Bedke, Madge^A
 Bell, Walter Ward
 Bennett, James Gordon
 Bennett, Wynona Pearl
 Beutel, Margaret Anne^D
 Black, Dorothy Leone (<i>magna cum laude</i>)
 Bliss, Grace Eldred
 Bloom, William Howard
 Blue, Ellen Eugenia^A
 Boardman, Benton Lockhart
 Boyce, John Franklin (<i>magna cum laude</i>)
 Brady, Bryant Denis
 Bronson, Donald^D
 Brown, Lucy Sanner
 Browne, Marjory Caroline^A
 Buck, Margaret^A
 Bungay, Clarence Roy
 Buol, Elsie Margaret^D
 Burdick, Dorothy Arline
 Burns, Dorothy Frances
 Burnside, Margaret Anne
 Burroughs, Alfred Parker^D</p> <p>Caldwell, Eleanor Washington
 Campbell, Josephine Marine Hillier^A
 Campbell, Morrison^A
 Carlander, Gertrude
 Chamberlin, Waldo^M
 Chang, Hai Yun
 Chapman, Frank Miller
 Chase, Dorothy Grace
 Chen, David H.^D</p> | <p>Cheng, Rao Ku
 Chisholm, Frances Elizabeth
 Chopson, Edwin Warner
 (R.O.T.C. Honor Graduate)
 Clark, Alvilde Lee
 Clark, Celia Lucile^A
 Clarke, Katherine Lucille
 Cline, Ida Riste^A (<i>cum laude</i>)
 Coit, Frederick Preston
 Colman, Walter Maguire
 Converse, Adelia M.^D
 Cooledge, Margaret Frances
 Copley, Blanche C.^D
 Craft, Doris Thelma</p> <p>Daly, Mary Elizabeth^M
 Daut, Audrey
 DeFreest, Kathryn^A
 Devanna, Aileen Winifred
 Dick, Miriam Russel
 Dick, R. Sherman
 Dickinson, Dorothy June
 Dickson, William John
 Didzun, Oscar J.^M (<i>cum laude</i>)
 Dilling, Margaret Stevens
 Dinele, Virginia
 Dolphin, Ruth^M
 Douglas, Jean Elizabeth^A
 Dranga, Clarence Melvin
 Drever, Helen Eline^A
 Dunbar, Helen Frances
 Duncan, Margaret Emma</p> <p>Eagleson, Helen Jane
 Edwards, Pauline Kennett
 Elford, Elizabeth Marie</p> <p>Finn, Mary
 (Sister Mary Josephine)^A
 Finnegan, Frances
 Fiscus, Louis R.
 Flynn, Madeline Lucille^M
 Ford, William Pendleton^A
 Fowlikes, Florence Vickers
 France, Muriel E.
 Franklin, Alice Mae
 Fraser, Russell Edward
 Friderici, Hazel Eugenia
 Furgeson, Carey Don</p> |
|---|---|

The persons whose names are followed by the superior letters A D M received their degrees in the quarters of 1926-1927 ending in August, December and March respectively; all others in June, 1927.

- Gallagher, Margaret Eileen^o
 Gayler, Anne Roberts (*cum laude*)
 George, Mary Martha
 Gerriets, Bertha Lucy
 Getchell, Asher Frederick
 Gilmore, Robert Henry
 Giuntoni, Julius Di Grazia
 Gorrell, Winifred Genevieve
 Goss, Erwin Lyle^o
 Grace, Elizabeth Buchanan
 Grafft, Clark Francis
 Grafton, Marlea^a
 Gray, Virginia Hallock
 Gross, Marjorie Graves^m
 Grove, Jare MacA.^o (*cum laude*)
 Guthrie, Elton Ferdinand^o
- Habicht, Helen M.^a
 Hackett, Clara Allison
 Hagar, Irene A.^a
 Hall, Ruth Virginia
 Hannum, Margaret Lucinda (*cum laude*)
 Hansen, Helen A.
 Harsch, Alfred Elmer^a
 Hart, Harold Howard
 Higgins, Frank L.
 Hine, Marie
 Hirai, Takanaga
 Hitchman, Betty Josephine
 Hoag, Alberta
 Hoage, Ruth Elnora
 Hoffman, Dorothy Sylvia^a
 Hoffman, Marian
 Holmes, John H.
 Horsfall, Frank Lappin Jr.
 Huff, Edyth Borthwick
 Hughes, Margaret Clair
 Huletz, Helen Marie
 Hurley, James Daniel
- Ines, Narciso Yadao
 Ireland, Gertrude Goodrich
- Jacinto, Victorino N.^o
 Jackson, Virginia Winston
 Jacobson, Samuel Sidney
 Jamison, Marguerite
 Jenner, Evalene
 Jensen, Margaret Irene
 Johnson, Milton S.^a
 Johnson, Raymond Alfred
 Jordon, Andrew A.^m
 Judd, Marie
- Kennedy, Elizabeth (*cum laude*)
 Kerr, John Leeds^a
- Kimball, William Briggs, Jr.
 King, James G.^a
 King, Jean Paul^o
 King, Robert Maxwell
 Klose, Hildegarde^o
 Kochevar, Dorothy Lorene
 Koert, Peter^a
- Larkin, Lucretia Starr ^m
 Laube, Florence McNair
 La Vine, Gladys Morrill
 Leamon, D. Thomas^m
 Learned, Allen Munford
 Leathers, Arthur LeRay^m
 Leatherwood, William F.^a
 Lee, Jean Elizabeth^o
 Lermond, Helen A.
 Leslie, Anna
 Lind, Anna Regina (*magna cum laude*)
 Lievsay, J. Leon^o
 Lonheim, Alton Marvin
 Lord, Helen Elizabeth
 Loving, Marianne^m
 Lundell, Signe Aurora Marie^o
 Lynch, Thomas Charles^a
- McAllister, Geraldine Marie^o
 McCarthy, Margaret Eleanor^a
 McDonnell, Audrey
 McEntyre, Alice Marie
 McFarland, Mary
 McFee, Louise Catherine^m
 McKenzie, Anne Elizabeth
 McLaren, Marian Esther (*cum laude*)
 McLean, Martin Jr.^m
 McNary, Catherine
 Mahone, Lena Louise^o (*cum laude*)
 Mantor, George C.
 Mar, Shu Tong Reginald
 Markewitz, Ernest^o
 Martin, Glenn Chudley
 Matthews, Gwlad^a
 Maxam, Elsie^a
 Meyers, Liv Alice
 Miller, Grace Whiting
 Miller, Vivian Rowena (*cum laude*)
 Mills, Mabel S.
 Mitchell, Webster Lee
 Mohler, Harry A.^m
 Mollestad, Marie Schober^a
 Montague, Frances^o
 Monteski Gertrude Veronica (*cum laude*)
 Montgomery, Anna H.
 Moran, Christine Louise

- Morgan, Lucile
 Morrill, Helen (*cum laude*)
 Mowat, Helen Frances
 Murton, M. Ethelwynne
 Nanney, Albert M.^A
 Nardin, Alphonse Charles
 Nash, L. Catherine
 (Sister Mary Edwardine)^A
 Nelson, Evelyn Ida
 Nesalhouse, Gertrude Marie
 (Sister Mary Ambrosia)
 Nessly, Dorothy Elizabeth
 Newberry, Amelia Ella
 Newton, May E.
 Nichols, Amelie Katherine (*cum laude*)
 Niesen, Heilene J.
 Nims, Frederick Dwight, Jr.
 Noftsinger, Edith Jeanne^D
 Noren, Gladys Martha^D
 Norton, Frances Ramona
 Okimura, Nobuo
 Oldfield, Alice A. Dominica
 (Sister Mary Dolores)^D
 O'Leary, Helen Kathleen
 Olin, Charles Herbert
 Olney, Dorothy Sue
 Ottenheimer, Albert Martyn
 (*magna cum laude*)
 Partee, Raymond Alonzo^M
 Peacock, Marion
 Peairs, Goldia Lucille^A
 Pearson, Merrill June
 Pease, Robert Odell^D
 Pellegrini, Angelo M.
 Pellegrini, Rosalie Leila (*magna cum laude*)
 Peltret, Edward Hinch
 Perring, Norman Claud (*magna cum laude*)
 Peters, Evan R.
 Peterson, Abbie^A
 Pfeiffer, June Louise
 Phelps, Saralette
 Philpot, Pauline^A
 Pierce, Florence Barbara
 Pineo, Eleanor W.^M
 Porep, Helen Caroline
 Potts, Theresa Ann^A
 (Sister Mary Lourдина)
 Predmore, Alice Elizabeth
 Raber, Ruth Marion
 Rader, Katherine Ellis (*magna cum laude*)
 Rasmuson, Evangeline
 Refling, Norman (*magna cum laude*)
 Remy, Frances Louise
 Richards, Thelma Arlene
 Rickerts, Helen Louise
 Riss, Arthur Henry^D
 Robertson, Dana A.
 Robson, James Wesley (*magna cum laude*)
 Roe, Edith Muriel
 Roose, Clarence N.
 Rossman, Kathryn Jeanette
 Rovig, Helen L.
 Royster, Helen Oneill
 Russell, Alice Pearl
 Sandbrink, Alice Margaret
 Savery, Barnett
 Schaeffer, Claude Everett^M
 Schenk, Rudolph Edward
 Scheuerman, Ruby Irene
 Schlarb, Elizabeth
 Scott, Harlan McKibban^M
 Seifert, Helen Louise
 Sensenig, Kathryn Viola
 Shaw, Virgil Farrar
 Sheldon, Dorothy E.^A
 Sheller, Dorothy Enid
 Shephard, Kathryn Mary^A
 Sherman, Winifred C.
 Showell, Gwendoline
 Skansie, Clementine Agatha
 Slipper, Marianne Littlewood
 Smith, Leah Ina Littlefield
 Soule, Elizabeth Sterling^A
 Sprinkle, Frances Margaret
 Stafford, John B.
 Stalberg, Vera C.
 Stanley, Evelyn Montana^M
 Stark, Eugene Edward^D
 Stenberg, Betsy Pauline^A
 Stevenson, Harold J.
 Stewart, Florence B.
 Stone, Ethel Viola
 Strecker, Burr Weil
 Sutherland, Alice Wood^A
 Sutherland, William James
 Swanson, Myrtle Lenea^A
 Swedine, Elmer
 Takahashi, Yoshiomi
 Tarleton, Julie Marjorie
 Taylor, Serena Fisher^M
 Thompsen, Dorothy Elizabeth^D
 Thompson, Margaret J.^M (*magna cum laude*)
 Thorn, Alfred Amel
 Too, Che Pin^D
 Townsend, Lorita Marguerite
 Travis, Virginia L. (*cum laude*)
 Tsao, Shou Chang^M

Ude, William Wilkinson (<i>magna cum laude</i>)	Whalley, Alice Maude ^D
Ura, Jutaro ^A	White, Helen Katherine ^A
Urquhart, Irene	Wilcox, Clairesse J.
	Wilson, Mary Helen ^D
	Wilson, Wendell Thomas
Van Horn, Margaret	Wong, Wah-Chin ^M
	Woodward, Sibylla Ann ^A
	Wright, Harriet Isabelle ^A (<i>cum laude</i>)
Wachter, Mary Virginia ^A	Wright, Quintin Bertram ^A
Walck, Ida Rozelee	Youle, Gretchen
Weir, Mary Frances	Young, George Wendell
Wen, Chung Sing ^D	

COLLEGE OF SCIENCE

BACHELOR OF SCIENCE

Appelgate, Kenneth Wood ^A	MacDonald, Sarah Isabel
Austin, Katharine Thornton	Milliman, Wendell ^D
	Muir, Mary
Bigley, John	
Bradshaw, Grace Elizabeth	Norie, Esther Edwards ^M
Butt, Richard Van Cleve	
Byers, John Raoul ^A	Peach, Helen Agnes
Cartwright, Edward D.	Ramsay, Ruth Rhodes ^A
Cook, Richard Hiram ^M	Ridout, E. Lucile
Cooper, Elizabeth Cole	Robertson, Angeline Turinsky ^A
Craven, Dorothy ^D	Roe, Howard Earl
Cunningham, Marvel Aileen ^M	
	Schaffer, Norwood Korter ^D (<i>cum laude</i>)
Dodge, Elva Mabel ^D	Scott, Frances Isabel ^A
Durose, Fred Wesson ^A	Stager, Helen Elizabeth ^M
	Stamm, Claus Henry ^D
Elliott, Richard Conn ^M	Storey, Guinevere C. ^A
	Sturgis, Isabel Andre
Ferguson, Lois Genevieve	
Foley, Maurice P.	Templeton, Frederic E.
	Thompson, Earl G. ^A
Grant, Wells Harold ^M	Thompson L. Katherine
Griffiths, Francis P.	Tryggvi, Carl
Haase, Edna Luella	Walker, Norman Eugene ^M
Hahner, Olive Margaret ^A	Ward, William Eugene ^D
Harris, Leland Stanford ^A	Weaver, William H. Jr.
Hitchings, George Herbert (<i>cum laude</i>)	Weinstein, Nat
	Whelan, Elizabeth McDowell ^A
Knapton, Florence Myrtle ^D (<i>cum laude</i>)	
Lowrie, Ruth Almira	Yoshioka, Jesse Jisaburo ^D

BACHELOR OF SCIENCE IN ANATOMY

Epton, John Wiltsie	Kimple, William A.
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BACHELOR OF SCIENCE IN CHEMISTRY

Artus, George Lawrence	Mills, Paul A.
Kao, Tsi Yu	
Lee, Yuen Tsaan ^D	Pollock, Robert

BACHELOR OF SCIENCE IN ZOOLOGY

Cole, Clyde Arthur	Scott, Hilda Isabelle
Goodsell, Julia Elizabeth ^A	Sey, Martha Coral
Johnson, Arthur Franklin ^A	Sherrer, Helen More ^A
Limbach, Dorothy Helen ^A	Van Tilborg, Laurance Douglas ^D

SCHOOL OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

Aber, James Finis (<i>magna cum laude</i>)	Deasy, Catherine Marie ^A (<i>cum laude</i>)
Alexander, Frank E. ^A	Dick, Bessie M.
Allen, Lois Maxine	Dickson, Irene Ysobel
Anderson, Ida Belle ^D	Donahue, Alfred Bernard ^A
Andrus, Dora Eva ^A	Dougherty, Ruth Millicent ^D
Armann, Edith Elizabeth	Duwe, Dora ^A
Ashley, Ethel Marie ^A	Dwire, Gertrude ^D
Austin, Frances M. ^A	Eidal, Elmer Oliver ^A
Baes, Engla Bernice	Fitzsimmons, Margaret ^A
Baker, Rena Rose ^A	Fraser, Edna Mary
Bale, Genevieve Georgiana	Garrett, Elton Mck.
Barker, Loris T. (<i>magna cum laude</i>)	Gilbertson, Alma Christine
Barnwell, Cecile K. ^A	Gilleland, Mary Rynd
Bird, Emma Marie ^D	Gingrich, Esther Marie
Black, Alberta Frances ^A	Gorton, Samuel Hiram ^{AA}
Bloom, Edward Franklin	Grass, Lorette B. ^D
Bower, Eleanor Barrows	Gross, Katherine J. ^D
Bradley, Florence Doris ^D	Grove, Leon Conner ^A (<i>magna cum laude</i>)
Branshaw, Francis	Guay, Emma Collard
(Sister Mary Veronica) ^D	(Sister Mary Dominic) ^D
Brewer, Vincent Robert (<i>magna cum laude</i>)	Guiang, Pedro Garaza ^D
Bromley, Mercy Gove	Guillen, Filemon C.
Brown, Florence Louise	Hall, George Mason ^A
Brown, Kathryn Louise	Hamilton, Bernice M. ^A
Broz, Maybelle ^D	Handy, Virginia Showwalter
Bruff, Ettie Julia	Hansen, Herbert ^A
Buli, Mabel Josephine ^D	Hatley, Porter J. ^A
Burnett, Alta Hazel ^D	Haug, John Meyer
Burns, Jessie Elizabeth	Hawk, Frank H. ^A
Busch, Vera	Hazen, Oliver Miner (<i>cum laude</i>)
Butler, Dorothy Lucille	Heffernan, Agnes
Carlson, Mable	(Sister Mary Austin) ^A
Chapman, Merna Louise	Heise, Irvin F. ^A
Christy, Dagmar Carola ^A	Hemphill, Elizabeth ^D
Clancy, Margaret	Henderson, Frank Downey ^A
Clevenger, Ruby Madge ^A	Hesseltine, Lee Frazelle ^A
Conant, Estella Louise	Hodge, James Wesley ^A
Cone, Dwight Harthan ^A	Hurd, May ^A
Connolly, B. Genevieve	Javato, Fermin
Cowden, Neva La Rue ^D	Jennings, Tillie ^A
Crosby, Clyde Eugenia Relf ^D (<i>cum laude</i>)	(Sister Mary Floretta)
Crouter, Carrie Maud	Jensen, Thomas Martin
Curry, Eva Philip ^D	Johnston, Ida Foss

Jones, Estelle E.^D
Jones, Wilfred Roscoe^M

Kautz, Bernice Q.^A
Kemper, Phyllis Janet^M
Kimball, Stanley Genlis
Knowlton, Charlotte Jane

Lambert, Helen Marie^A
Lawen, Amalia Regina^A
Lowman, James Guy^A
Lundy, Oliver G.

McElvain, Ernest Emerson^D
McIntosh, Margery Phidelia
McKinnell, Eloise McPherson
McLaughlin, Helen York
McLennan, Elfreda May^D (*magna cum laude*)

Mantei, Vega Patterson^A
Mattilla, Walter Oscar
Mead, Ida Christine^M
Milam, Carey Harris^A
Milford, Mersel
Myers, Doris Maurine

Neal, Russell Leroy
Ness, Sever Walter^A
Neylon, Mary Teresa

Olsen, Bergliot Nancy
Olson, Olaf Ebert^A

Parker, Agnes Frances^A
Pearce, Eunice Celia
Percival, Dorothy Louise
Peterson, Edith N.
Peterson, Ida Gertrude^A
Peterson, Marie Laura^A
Pettigrew, Anna Thompson^A
Pettigrew, Elizabeth
Philippi, Herbert^A
Pugh, Venetia Elizabeth

Rathbun, Anna Louise^M
Raum, Dorothy^M
Reed, Ralph Joseph^A
Reeder, Verna Terry^A (*magna cum laude*)
Renshaw, Mildred Belle
Reyes, Benigno T.

Rhodes, Helen Neilson
Rollinger, Dorothy
(Sister M. Josepha)^A
Ross, Lemuel^A
Rowe, Abbie Elizabeth^A
Rude, Hazel Irene^A
Ruidl, Philip F.

Sandall, Loretta M.
Schenken, Robert Crocker^D
Scoones, Phyllis Elizabeth
Selde, Alice Frances^A (*cum laude*)
Sell, Myrtle May^A
Sholderer, Marguerite Dorothy
Simpson, Donald^A
Sims, Bertha May
Sjaastad, Anna Olivia^A
Stone, Lucia May^A
Stoner, Juanita June^A
Straight, Robert^A
Sutherland, Ethel Emogene (*cum laude*)
Swanson, Dorothy Miller

Taylor, Chester Alban^A
Taylor, William David Jr.
Thompson, Ethel Marion^A
Thrun, Beatrice Dorothy^A
Townsend, Florence Elizabeth (*cum laude*)
Traffry, Ralph Paul^D

Vandivort, Mary Harriett
Varney, Adah May^A

Walsh, Grace Ann^A
(Sister Mary Michael)
Watkins, Minnie Jane^A
Weisman, Frances^A (*magna cum laude*)
Weisman, Sara Eve^A (*magna cum laude*)
Westall, Albert James^A
Wood, Hazel Frances
Wright, Parke A.^A
Wynn, Thomas Delaney
Wynstra, Stanley S.^D
Wynstra, Walter Scott^A

BACHELOR OF SCIENCE IN EDUCATION

Aust, Ruth

Cavanaugh, Esmer Dorothy
Church, Ruth Margaret^D
Coon, Amy Grace

Dodson, Jesse Moody

Erlanger, Kathyryne Brown

Flock, Eunice Verna^A

Johnson, Berkley G.^A

Johnson, Carl Gustaf ^A	Schrader, Neva L.
Larson, Olga Madeline ^A	Smull, Victor Albion
McFaddin, Helen Jane	Sunnell, Bertha Alexandria ^A
Miller, Raymond Paul	Suomela, George Edward
Murray, Jane Frances ^M	Tucker, Roy Francis
Rogers, Catherine Amy	Weyermann, Oscar Ferdinand
	Whitmore, Pearle R.
	Wolfe, Dael Lee

COLLEGE OF FINE ARTS
BACHELOR OF ARTS IN MUSIC

DeMary, Dorothy Putnam	McClure, Willard
Harden, Mabel Zulema	McKay, Alice
Leach, Grace Barnett	Schumacher, Walter C.

BACHELOR OF MUSIC

Bettinger, Dawn Louzeza ^A	Loken, Clarice Elizabeth
Boyker, Maxine Marie	Lundkvist, Lyllis D.
Chandler, Berniece Claire	McRae, Ruth Moore
Crawford, Roberta Margaret	Mackenzie, Clemewell Loraine Moses
Dunn, Florence Steele ^A	Miller, Adelaide Lavina
Edwards, Joseph O.	Miller, Leonardeen
Gallinger, Edythe Myldred ^D	Moore, Vivien Monica
Gaul, Leona Louise	Mowry, Ellen Rachel
Gerrish, Olive May ^A	Nowatzki, Claire Hulda
Hale, Eleanor Elizabeth	Samzelius, Alpha L. ^A
Hartman, Jeannette Wyse	Sayre, Elinore Pearl
Herman, Helen H.	Secreast, Ruth Viola (<i>cum laude</i>)
Hinman, Isla	Sisler, Dorothy Muriel
Hopkins, Eugenia Victoria ^D	Strand, Sophie ^M
Howatt, Alice I.	
Kane, Kathleen	Walsh, Helen Bernice
Kane, Olive Cecelia	Whitner, Lois Elaine Bennett
Kopika, Irja (<i>cum laude</i>)	

BACHELOR OF ARCHITECTURE

Becket, Welton David	Wurdeman, Walter Charles
Nagamine, Frank Nobuichi	

BACHELOR OF FINE ARTS

Adams, Susanna Catherine	Donaldson, Hallie ^A
Blackaller, Mary Louise	DuBois, Frances Georgene
Brunner, Elma Margaret ^M	Dun, Kwei
Charlesworth, Ruth	Eckrem, Dagrun Lillian ^A
	Ennis, Mercedes Elouise

Evans, Catherine ^M	Penington, Ruth Esther (<i>cum laude</i>)
Fairchild, Inez Marcella ^D	Peters, Laura Beatrice ^M
Hanks, Josephine Beatrice	Rawson, Charlotte Stevens
Hinsdale, Helen L.	Schrock, Clarice Mazie
Leyman, Garnett Valentine	Schuman, Sara Hirsch
MacGowan, Clara	Sheets, Hilma Ilene
MacKinnon, Anabel Marian ^D (<i>cum laude</i>)	Smith, Hjordis Carloa
	Strouse, Margaret Frances
	Wayland, Elizabeth ^M

BACHELOR OF ARTS IN DRAMATIC ART

Anderson, Margaret Galloway	Herod, Mignon
Britton, Cathryn Margaret	Kullberg, Jule Helen
Cutler, Bernice Acors (<i>cum laude</i>)	Leitch, Marjorie Eleanor
Fisher, Mary Alma (<i>cum laude</i>)	McGuire, Grace A. Peppett
Frost, Leona King	Riss, Eleanor Gross
Hecht, Ruth Elizabeth	Vaughan, Frances Clare ^M

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Botsford, George Sherwood	Mansur, Howard Harry ^D
Dailey, Manvel Clair ^A	Reed, Ronald Logan
Fisher, Lloyd H.	Richford, M. A. ^D
Ford, Tirey Foster (<i>magna cum laude</i>)	Sherrill, Harold Dudley ^A
Hansen, Ralph B.	Swart, Gilbert H. (<i>cum laude</i>)
Hoard, James Lynn (<i>magna cum laude</i>)	Tershin, John Alfred ^M
McAneny, John Maurice	Willson, Edward Arthur
	Wood, Lewis Clarke

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Christy, Bruce Verner	Miley, John Donnell
Clayton, Walter Croft	More, David Thurber
Davidson, Edward Willoughby Jr. ^M	Rhodes, Fred Harold Jr. ^D
Erickson, Archibald Milton	Rouner, Thomas J. ^A
Gwinn, Ernest Sidney	Smith, Richard Wilson
Hitchings, Eben Godfrey ^A	Stevens, George ^D
Martin, Albert Watson Jr. ^D	

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Alexeeff, Alexander V.	Crosby, Roy Henry (<i>cum laude</i>)
Anderson, Lloyd A. ^A	Ecker, Anthony Joseph ^D
Berge, Sigfred Frithjof	Falkovich, Oleg C.
Brueggeman, William Charles	Francis, Arthus D. ^M
Case, Byron Avenant	Goff, Earl Wilson
Cochran, Stanley William	

Jenner, Melvin Alfred	Roscoe, Roland Theodore ^D
Jensen, George G. ^M	
Karrer, Lawrence Edison (<i>magna cum laude</i>)	Scott, Herbert Jefferson
Kennedy, Wesley Montrose	Scoville, Ray R.
Kerns, Homer	Shinoda, Akira
	Shiomo, Roy Yoshiyuki ^M
	Snider, Floyd
	Stewart, Phil Harold
Larsen, Lloyd ^D	
Lowry, Lewis Reeder ^M	Thraillkill, William Lubrecht
McMullen, Robert B. ^D	(<i>magna cum laude</i>)
Priebe, Lloyd Herman	Weil, Charles Frank
Ramm, John Bernard	Westby, George Newton
	Wimmer, Lyle Graham

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Dittmore, Wallace Chester	Hillman, George Kenneth
Eby, Roger I. (<i>magna cum laude</i>)	Jensen, J. Ebbe
Franks, Ernest	Konzo, Seichi (<i>cum laude</i>)
Hallett, John Louis	Personeus, Lewis Hill
Hansen, Carl Magnus	Ross, Bruce W.
Hendrickson, Harold Martin	
(<i>magna cum laude</i>)	

BACHELOR OF SCIENCE

Bryan, Collis Charles	Johnson, Melvin Ernest
Flodin, Carl Richard	Larkin, William Jackson
Flohr, Louis Carlos	Rasmussen, Charles Alfred ^D
Forcum, Redman Lewis ^M	Schlageter, Frederick C. ^D
Jacobsen, Philip Amund ^D	Smith, John Corson
Jeffery, Harold Baker	

COLLEGE OF MINES

BACHELOR OF SCIENCE IN MINING ENGINEERING

Finland, George Harold	Vincent, Will Pierre
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BACHELOR OF SCIENCE IN GEOLOGY AND MINING

Barquist, William Swan	Palmer, Burton Elliott ^A
Johanson, Nels E. ^D	Wheeler, Raymond A.

COLLEGE OF FORESTRY

BACHELOR OF SCIENCE IN FORESTRY

Allen, Gordon Craig ^D	Covington, Duane M.
Anderson, Bernard A.	
Bode, Arthur Theodore	Heine, Henry Court Jr. ^A
Bundy, Robert Egbert	Holt, George A.
Bunker, R. Stanley	Inskeep, Alonzo II.

Joseph, Henry Burton	Svensen, Harold A. ^M
Lindh, Nels Gustav	Trowbridge, Kennard Shields
Moran, Wendell	Walton, Leon Wendell
Schmitz, Ferdinand Jr. ^M	Walton, Peter Thomas
Scott, Myron Arthur	Zamuco y Torio, Gregorio
Shank, Jack O'Rourke ^A	
Simcoe, Philip Sumner	

COLLEGE OF FISHERIES

BACHELOR OF SCIENCE IN FISHERIES

Finlon, Arthur James	Loosanoff, Victor L.
Freeman, Norman Lloyd ^M	Lucas, Clarence R.
Goodwin, Thomas Kimball	Quast, Thomas
Hanson Harry Albert ^D	Townsend, James Reilly ^M

COLLEGE OF PHARMACY

GRADUATE IN PHARMACY

Barrett, Roy Irwin^D

PHARMACEUTICAL CHEMIST

Abogadie, Maria Aytona ^D	Koenig, John Frank
Ajax, Marjorie	Levinson, Sol
Beck, Robert E.	Lewis, Charles H.
Benveniste, Isaac E.	Magnusen, Carl Walter
Burston, Ray Joseph ^A	Marr, Frederick G.
Castle Harold M.	Miller, Florence A.
Cruickshank, Bruce Wallace	Moseley, Evalyn Anita ^A
Cruickshank, Kenneth	Mowat, Lillian Augusta
Davis, Milder A.	Odegard, Thomas
Doyle, Margaret Agnes	Peha, Albert James
Evans, Clementine Claire	Richter, Leo Clemen ^D
Fitzgerald, Elizabeth M.	Schimke, Leo L.
Gedmin, Ludmila	Seidenfeld, Morton Alfred
Grant, Samuel Walker	Tobey, Lono Wilkinson
Hayes, Margaret Mary	Werttemberger, Richard Edward ^A
Hollomon, J. Paul ^A	Wong, Violet
Jorgensen, Paul Simon	

BACHELOR OF SCIENCE IN PHARMACY

Abogadie, Marie Aytona ^D	Moseley, Evalyn Anita ^A
Clein, Lillian ^M	Reckie, Richard D.
Cruickshank, Kenneth	Seidenfeld, Morton Alfred
Evans, Clementine Claire (<i>magna cum laude</i>)	Wong, Violet

COLLEGE OF BUSINESS ADMINISTRATION
BACHELOR OF BUSINESS ADMINISTRATION

- Abbott, Robert C.^D
Anderson, Clarence Edward
Anderson, Edwin Leonard
Anderson, Logan
Andrews, Clarence A.^D
Arai, Thomas F.^M
Arnold, Harry Albert
- Badgley, Charles Hanley
Bailey, Henry Ernest (*magna cum laude*)
Banker, Gordon Fisk^A
Barton, Howard Edmund
Bender, Edwin Brown
Benner, Lawrence Benjamin
Bowen, Edward Van
Boyer, Louis A.
Brewer, Ronald Kenneth
Burr, Wallace Melbourne^M
Byrnes, Robert Edward^M
- Cameron, Harold William^A (*cum laude*)
Carlson, Ruth Lily Elenora^A
Carstens, Ernest Julius
Carver, Marion Esther
Charleston, Jack Lee
Charteris, James Miller
Christensen, Ferdinand A.^A
Chu, Tung Chi^M
Coffee, William Glennon^D
Corey, Elva Florence
Corlett, Donald Alexander^A
Crowley, George Joseph
Curry, Jerome J.
- Daniels, Albert S.
Davison, William Ward^M
Dean, Helen Rose^A
Dickinson, George Leonard
Ditmars, Tracy Arthur
Dolan, R. Edmund
Dougherty, Ollie^A
- Edris, Roy W.
Ellis, Overton Gentry Jr. ^D
Evans, Irene
- Farwell, Stanley Estes
Faulkner, Donald Ross^D
Fitzpatrick, Mary Margaret
Fleming, James Patrick^D
Foley, John Richard^A
Franklin, Charles Willson^M
- French, Jesse Ira^A
- Garred, Ward Kenneth^M
Gilbert, Harold Spencer
Gill, Kenneth Hugh^M
Glaze, Nina Muncy^A
Goon, John L.
Gorham, Harlan West
Greely, Gilbert Fillmore^A
- Hale, Estle William^D
Hanley, John Joseph
Hanley, Myron Victor^D
Harris, John H. Jr.
Hayes, Elizabeth Georgina
Heaton, William Dean Jr.
Heer, Ralph Waldo^M
Helphrey, Mary Frances
Hill, Arthur R.
Holden, Blanch L.
- Isom, Max Dana
- Johnson, Pauline^D
Jones, Stanley Ernest^D
- Kaan, Yam Tsin^A
Kao, Chin-Chi^A
Kettenring, Elizabeth Eleanor
Kiehl, Clarence Lloyd^A
Kilgas, Carl A.
King, Waldo Theodore
Kirby, Cleo L.^A
Kirsch, John Bernard
Kling, Fridolf Carl^A (*cum laude*)
- Landeen, Herbert Axel^A
Lea, William O.
Le Compte, Maurice
Leighton, Roy Sewall
Lemenager, Raymond
Levitin, Isaac
Lively, Philip M.
- McKay, Herndon^M
Manning, Robert Sedwick (*cum laude*)
Mansfield, Charles Anton^M
Matlock, Charles Orin
Matthews, James B.
Meagher, Vivian Ambrose
Miescke, Paul Frederick^M
Miller, George Leonard
Miller, John Lyle^D
Mills, George Gordon

Montfort, Richard^D
Moseley, Robert Duncan

Nelson, Malcolm Edward^M
Nishimoto, James Yoshito^D

Oestreich, Roy
Orkney, R. Woolston Jr.
Otto, Robert Henry^M

Perkins, Melvin C.
Peterson, Hilma Justine
Pierce, Burton Bowman
Pittack, Arthur Henry^A
Porsch, Rhynhart A.
Potter, Alden L.
Prentice, Dudley Russell
Prichard, Lewis Grant
Reeves, James A.
Retzer, Lawrence E.^M
Richardson, Wallace Alton
Roach, Russel Albert^A
Ross, Frank L. (*cum laude*)
Russo, Samuel Joseph
Ryan, Benjamin F.^A
Ryan, Maurice Fraser

Schaefer, Oscar^M (*cum laude*)
Schonhard, George Maurice
Shidler, Harold^M
Shollenberger, John Wayne^M

Silva, Julio W.^D
Slawson, Charles Sanford^A
Sloan, Wayland Carey
Smetheram, Francis Edwin
Spaulding, Daniel Woodman^D
Stevens, Robert Ray^M
St. John, C. Harold^M
Stowell, Ralph John
Strain, Kenneth Brooks
Swanson, Clarence W.^A

Tang, Sik Pui.^A
Tate, Wilbur Paul
Thomas, Jack Rees

Ulbrickson, Alvin Martin
Ushakoff, Demetry Demetrevitch^A

Vining, Maurice N.

Witham, Frederick Ray^A
Wong, James Mun Tim^D
Woodside, James Harvey
Wynn, George Evans

Ybojos, Marcelino Vista^D
Yoshioka, Fusako

Zimmerman, Ralph Coburn

SCHOOL OF LAW

BACHELOR OF LAWS

Arend, Harry O.

Bailey, Arthur E.^D
Berolski, Edward M.
Blando, Patricio B.
Burnett Charles Pye Jr.

Cheung, Heung Shang^A
Clarke, George Eric
Clarke, George Whitaker
Coale, A. Draper, Jr.

Deaderick, Kelly Dent
De Garmo, Gerald Arthur (*cum laude*)
Derig, William Matthew^D

Grace, Robert Holder^D
Green, Thomas M. Jr.

Hatch, Orville C. Jr.
Horowitz, Charles (*summa cum laude*)

Ingersoll, Oliver Roland

Jackson, Roy E.^D

Keeler, Doris Rae
Kellogg, Orlo Burton (*cum laude*)
Keplinger, Lawrence Merle^D

Lane, W. Byron
Lund, John Grant
Lurie, Manuel Arthur

McCush, George William (*cum laude*)
Milot, John A.^D

Nordquist, Carlos Gustave Havrah

Olsen, Frederick C.

Pearl, Charles (*cum laude*)
Prim, John Edmondson

Reiter, Bernard	Stratton, Irving Rodd
Roney, Ward William	Swift, Edward Alonzo Jr. ^D
Smith, Tremaine John ^A	Westberg, Alfred John
Stark, Russell F.	

LIBRARY SCHOOL

BACHELOR OF SCIENCE IN LIBRARY SCIENCE

Abbott, Susan Estes, ^A	Kirshner, Ora
Anderson, Edith Lillian (<i>cum laude</i>)	Knox, Rozella Faustina
Anderson, Helen G.	Lanning, Roland J. ^A
Bereiter, Marvel Naomi	Lensrud, Mabel English (<i>cum laude</i>)
Blossom, Rosamond May	Lewis, Kathleen Gwynneth ^A
Buck, Margaret ^D	McAfee, Irene
Campbell, Flora E.	McQuaid, Alice Evelyn ^A
Campbell, Freda	Malmgren, Marie Hull ^A
Campbell, Josephine Marie Hillier	
Cole, Eva Marsden ^D	Notkin, Natalie Brodskaya
Davis, Lois E.	O'Keane, Mary Catherine
Dobrin, Hilda	
Dunton, Marjorie	Perry, Warren Loud
Evans, Margery Carlota	Pierce, Dorothy Antoinette ^A
Flahaut, Martha Reekie	Pineo, Eleanor W.
Foltz, Laura Azalia ^A (<i>magna cum laude</i>)	Russell, Ruth
Garesche, Gladys M.	Smythe, Lucile Charlotte
Gould, Clara Walters Heavysege	Swain, Olive
Graves, Katherine Helen	Taylor, Alice Lucile
Harvey, Nellie Regina	Taylor, Elsie Gertrude ^A (<i>magna cum laude</i>)
Hinman, Agnes Lorene	Thompson, Chloe Stevens
King, Esther Elizabeth	Van Horn, Amy

SCHOOL OF JOURNALISM

BACHELOR OF ARTS IN JOURNALISM

Bachman, Raymond Lee ^A	Logan, Lorna Eileen
Blethen, Francis Alden	Lynch, Patricia Genevieve ^D
Brown, Robert William	McFadden, David Johnesse ^D
Butler, Walter Rawson	Maher, Marian Frances
Chapman, Horace	Matheson, Margaret I.
Conover, C. Norman H. ^M	Miller, John Earl
Drew, Claire Cecelia	Musgrave, Dorothy ^A
Fitzharris, Edward James ^M	Perdue, Edgar A. ^A
*Fountain, Harold A. ^D	Robbins, Nadine I. ^A
Glass, Samuel Nevin	Sheehan, Paul Vincent ^A
Hyndman, Beryl K.	Starr, Geraldine ^A
Lippman, Edith Olive	Stewart, Ruth
	Turner, James Clark
	Willett, Madeline Muriel

*Died December 27, 1926.

University of Washington

PROFESSIONAL DEGREES

CIVIL ENGINEER

James Baker Hamilton

B.S. in C.E., University of Washington, 1923

Thesis: The Effect of Various Percentages of Entrance Rounding on Entrance Loss

MECHANICAL ENGINEER

Frederick Burt Farquharson

B.S. in M.E., University of Washington, 1923

Thesis: The Wind Balance in the Boeing Aerodynamical Laboratory at the University of Washington

GRADUATE DEGREES

GRADUATE SCHOOL

MASTER OF ARTS

Newton Carl Abbott (History)

B.A., University of North Dakota, 1910

Thesis: The Evolution of Washington Counties

Eva Greenslit Anderson^A (English)

B.A., Nebraska Wesleyan University, 1910

Thesis: Backgrounds of Willa Cather's Novels

Ruth Muriel Aspray (English)

B.A., University of Idaho, 1926

Thesis: Ellen Glasgow and the New South

Florence Davis Bain (Political Science)

B.A., University of Utah, 1919

Thesis: The Political Theory of Benjamin Franklin

Peter Jeremiah Bardon^M (Education)

B.A., University of Washington, 1911

Thesis: State Boards of Education with Special Consideration of State Boards in Control of Higher Educational Institutions

Dorothy Benham^A (English)

B.A., University of Washington, 1925

Thesis: A Translation of Selected Chapters from Albert Dauzat's *The Life of Language*

Thomas William Bibb (Economics)

B.A., William Jewell College, 1908

Thesis: Investments of Some Endowed Colleges

William Plummer Black^A (Sociology)

B.S., Oregon Agricultural College, 1922

Thesis: Rescue Missions of Seattle

Howard Blackenburg (History)

B.A., Walla Walla College, 1925

Thesis: The History of the Jury in England from Henry II to Edward I

Edwin Latham Bolton^D (Education)

B.S. in M.E., University of Washington, 1922

Thesis: An Analysis of the Contents and Arrangement of Five Modern Textbooks on High School Physics

Charles Milburn Boundy (Education)

B.A., University of Washington, 1924

Thesis: A Comparative Study of English and American Adult Education

Ward Simon Bowman^A (Education)

B.A., University of Michigan, 1908
LL.B., University of Michigan, 1909

Thesis: A Survey of the Social Sciences in the High Schools of the State of Washington

Frank Buckley (English)

B.A., Walla Walla College, 1924

Thesis: Hamlin Garland and the Agrarian Crusade

Laura Dorothy Cartwright (French)

B.A., University of Washington, 1922

Thesis: A Comparative Study of the Journeys to Hell in Dante's *Inferno*, Virgil's *Aeneid* and Marie de France's *Espurgatoire Saint Patris*

Dorothy Catherine Cassidy (Spanish)

B.S. in Educ., Ohio State University, 1920

Thesis: The Don Carlos Theme in Literature

Miriam Elizabeth Cole (English)

B.A., University of Washington, 1919

Thesis: A Study of Determinism in Fiction

Jane May Crow (Education)

B.S., Kirksville State Teachers College, 1923

Thesis: A Study of Achievement in General Mathematics

Elizabeth Davies (Education)

B.A., University of Washington, 1923

Thesis: The Teaching of History in France, Germany, England and the United States

Ruth Lucile Easum (English)

B.A., Knox College, 1925

Thesis: William Dean Howell's Appreciation of Jane Austen

George Washington Edwards^D (Education)

B.S.F., University of Washington, 1923

Thesis: The Origin and Development of Science

Nathanael Howard Engle^A (Economics)

B.A., University of Washington, 1925

Thesis: Economic Aspects of the Cash-and-Carry System in the Grocery Marketing of the Pacific Northwest

Garland Oral Ethel (English)

B.A., University of Washington, 1923

Thesis: Four Realistic Stories of Western Life

Mary Elizabeth Salome Good^A (Education)

B.A., Bethany College, 1908

Thesis: Moral Education in Japan

George Franklin Gorow^A (Education)

B.S., University of Idaho, 1924

Thesis: Methods of Evaluating Teachers

Harold Oliver Gulliksen (Psychology)

B.A., University of Washington, 1926

Thesis: The Influence of Occupation upon the Perception of Time

Frank Downey Henderson^A (Education)

B.A., University of Washington, 1926

Thesis: The Voluntary Reading of Two Thousand Eighty Three Junior and Senior High School Pupils

Thomas Gerald Hermans (Psychology)

B.S., University of Washington, 1923

Thesis: Relative Value of Silent Study Accompanied by Speech in the Learning of Meaningful Material

University of Washington

Evelyn Eloise Kennedy^A (English)

B.A., Linfield College, 1920

Thesis: The Social Influence of Charles Reade

George Kessler (Sociology)

Baccalaureate, Graz, Austria, 1898

Thesis: Incongruities of Contract Labor Legislation

Irma Etsell Kryzanowsky^M (Spanish)

B.A., University of Wisconsin, 1913

Thesis: Porto Rican Songs and Folk Tales

Vivian Effinger Lamont (English)

B.L.L., Emerson School of Oratory, 1924

Thesis: The Concept of Expression in Contemporary Aesthetics and Literary Criticism

Frederick Merrick Lash^D (Education)

B.A., University of Washington, 1923

Thesis: Junior Reserve Officers' Training Corps

Martin LeRoy Lindahl (Economics)

B.A., Carleton College, 1924

Thesis: The Rayon Industry and its International Aspects

Jeannette Estell Maltby^A (English)

B.A., Washington State College, 1909

Thesis: Spenser's Use of the Bible in the *Faerie Queene*, Books I and IIErnest LeRoy Marchand^A (English)

B.A., University of Washington, 1925

Thesis: Joel Barlow, a Yankee French Romantic

Alfred William Matthews^D (History)

B.A., College of Puget Sound, 1923

Thesis: History of the College of Puget Sound

Edith Sidonie Michelson (French)

B.A., University of Washington, 1908

Certificat d' Etudes Françaises, Sorbonne, 1911

Thesis: Racine's *Esther*: A Comparative Study of SourcesJennie Mohr^A (Philosophy)

B.A., University of Washington, 1925

Thesis: An Enquiry Concerning the Meaning and the Criteria of Nonsense

Coleman Halpin Mulcahy (Journalism)

B.A., Catholic University of America, 1924

Thesis: Today in Journalism

*Aaron Newell^M (History)

B.A., University of Michigan, 1902

Thesis: History of the Administration of Law in the old Oregon Country

Bonnie Lucille Poole (Spanish)

B.A., University of Washington, 1924

Thesis: The Influence of Horace on Fray Luis de Leon

Melvin Miller Rader (English)

B.A., University of Washington, 1925

Thesis: A Comparison of William Blake and Fyodor Dostoevsky

Bessie May Robinson (History)

B.A., University of Washington, 1920

Thesis: The Origin and Development of the Greenback Idea in the United States, 1843-1875

Catherine Virginia Royer (English)

B.A., Mills College, 1924

Thesis: Studies in Contemporary Biography

Gustav Hermann Schlauch^D (Education)

B.A., Spokane University, 1919

Thesis: A Study of Current Practices in State Courses of Study
in Language and Grammar

Clara Olive Settem (French)

B.A., University of Washington, 1923

Thesis: The Relation of Gaydon to Gul de Bourgogne and to the
Chanson de Roland

William Lawrence Shidler^A (Education)

B.A., University of Washington, 1922

Thesis: The Present Educational System of Japan

Josephine Lois Silvers (History)

B.A., University of Washington, 1925

Thesis: The History of the Eighteenth Amendment

Francis Angevine Staten^A (Economics)

B.B.A., University of Washington, 1925

Thesis: The Administration of the General Property Tax in Washington with
Special Reference to Snohomish County

Elizabeth Shute Stoddard (English)

B.A., University of Wisconsin, 1908

Thesis: Religion in Modern Poetry

Nellie Cecelia Stone^D (Education)

B.A., University of Washington, 1924

Thesis: Compulsory Attendance and Child Labor Legislation

Eunice Storey (English)

B.A., University of Washington, 1926

Thesis: The Ethics of Jonathan Swift

Arthur Samuel Taylor (Education)

B.A., Williams and Vashti College, 1917

Thesis: A Critical Analysis of the Duties of the High School Principal

Joseph Marshall Tewinkel^A (Education)

B.S., Whitman College, 1923

Thesis: A Study of High School Spelling

Sara Smedley Vance (Economics)

B.S., Oregon Agricultural College, 1925

Thesis: The Dawes Plan in Operation

Theodore Kampmann Vogler (English)

B.A., Moravian College, 1921

Thesis: Studies in Robert Browne

Kenneth Oren Warner (Political Science)

B.A., University of Washington, 1926

Thesis: The Political Theory of James Wilson

Richard Weir^A (History)

B.A., College of Puget Sound, 1925

Thesis: The Work of the Department of Agriculture during the
Incumbency of Secretary James Wilson

Lyda Arnold White^A (Psychology)

B.A., University of Washington, 1925

Thesis: Study of Professional Ethics for Nurses

University of Washington

MASTER OF SCIENCE

John Stauder Biggerstaff (Mathematics)

B.A., Reed College, 1924
Thesis: Arithmetic of Nonions

Gordon Dean Byrkit (Chemistry)

B.A., University of Kansas, 1926
Thesis: Double Salts of Aniline and Aniline Hydrohalides with Metal HalidesEdith Agnes Cattle^D (Bacteriology)B.S., University of Washington, 1924
Thesis: The Study of Halophilic Bacteria found in some Pickling Brines

Anna Edsall Church (Chemistry)

B.S., University of Washington, 1924
Thesis: The Condensation of Normal Butyraldehyde with Methylpropyl Ketone

Isabel Susan Colman (Chemistry)

B.S., University of Washington, 1925
Thesis: A Quantitative Method for the Analysis of the Phosphates of Calcium

Laura May Connell (Home Economics)

B.A., University of Wisconsin, 1924
Thesis: Vitamin B a Factor in the Causation of Nutritional AnemiaDonald Russell Crawford^A (Zoology)B.S., University of Washington, 1923
Thesis: The Intestinal Folds of Certain SalmonidaeHattie May Fitzgerald^D (Bacteriology)B.S., University of Washington, 1925
Thesis: Gas-forming Anaerobes in Starch in Relation to the Explosion of Chocolate CandiesMildred Prescott Gellerman^A (Zoology)B.A., University of Washington, 1922
Thesis: Medusae of the San Juan ArchipelagoOlive Marrisco Hannant^D (Home Economics)B.Ed., Illinois State Normal University, 1923
Thesis: Relation between School Achievement and Nutritional State of Children as Shown by Weight to Height Relationship

Helen Tyson Hart (Botany)

B.A., Vassar College, 1924
Thesis: Delayed Germination in Seeds of *Peltandra Virginica* and *Celastrus Scandens*

Victor Hicks (Physics)

B.A., Willamette University, 1925
Thesis: The Use of a Photoelectric Cell for the Measurement of Intensities of X-rays

Alice Sherfy Houston (Home Economics)

B.S., Ohio State University, 1924
Thesis: A Critical Survey of Prevailing Food FadsGladys Guernsey Kaiser^D (Bacteriology)B.S., University of Washington, 1924
Thesis: Does the Wax on the Tubercle Bacillus Act as a Protective AgentJay Adrian Kempkes^A (Psychology)B.S., Central College, 1914
Thesis: Nesting Behavior of the Western Meadowlark (*Sturnella Neglecta*)Elizabeth Knox^M (Botany)B.A., Colorado College, 1922
Thesis: *Porphyra Naladum*, Anderson

Myrton Dollard Likes^A (Chemistry)

B.S., University of Washington, 1922
 Thesis: The Influence of Hydrogen-ion Concentration on Emulsions

Louis Marick (Physics)

M.E., Montana State School of Mines, 1925
 Thesis: Radiography of Magnesium and Aluminum Alloy Castings

Marian Esther Meaker (Zoology)

B.S., University of Washington, 1924
 Thesis: A Quantitative Determination of the Vitamin A Content of the Liver Oils of Raja Binoculata and of Hexanchus Griseus

George O. Monda^D (Zoology)

B.S., University of Washington, 1925
 Thesis: The Isopoda of Puget Sound and Adjacent Waters

Clarita Leigh Moore (Zoology)

B.A., Syracuse University, 1920
 Thesis: Simple Ascadians of the Friday Harbor (Washington) Region

Floyd Clifford Ostensen (Physics)

B.S., University of Washington, 1922
 Thesis: A Study of the Effect of Frequency on the End Correction in Brass Pipes Closed at One End

Ruth Elizabeth Platt^A (Botany)

B.S., University of Washington, 1923
 Thesis: Starch Hydrolyzing Activity of Eight Brown Algae (Phaeophyceae)

Maud Ruth Rice^D (Chemistry)

B.S., College of Idaho, 1918
 Thesis: The Effect of the Antirachitic Vitamin upon the Growth and Development of Tadpoles

Henry John Ruzicki (Physics)

B.S., University of Washington, 1922
 Thesis: A Study of the Temperature Coefficient of Resistance of Wood's Metal

Emmett D. Towler^A (Zoology)

B.S. in Ed., University of Missouri, 1916
 Thesis: The Common Barnacles of Friday Harbor, Washington, and their Distribution

Aaron Waters (Geology)

B.S. in Geol., University of Washington, 1926
 Thesis: A Structural and Petrographic Study of the Glass Buttes, Lake County, Oregon

Victor Elliott Wellman (Chemistry)

B.A., Phillips University, 1924
 Thesis: A Study of the Factors which Influence the Potential of the Oxygen Electrode

Helena Johna Werby^M (Zoology)

B.S., University of Washington, 1920
 Thesis: A Review of the Trematode Genus Harmostomum new to North America

Leslie Edwin Wilson^A (Geology)

B.S., University of Washington, 1926
 Thesis: Stratigraphy and Paleontology of a Part of Garfield County, Montana, with Notes on an Unconformity at the Base of the Lance Formation

MASTER OF SCIENCE IN CIVIL ENGINEERING

William Rienze Visser

B.S. in C.E., University of Washington, 1926
 Thesis: The Effect of Thickness on the Flow of Water Through a Re-entrant Tube

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Clifford Milton Briggs

B.S. in E.E., University of Washington, 1926
 Thesis: The Five Hundred Mile Transmission Line with Distributed Synchronous
 Condenser Capacity and Transmission at Unity Power Factor

MASTER OF SCIENCE IN CERAMIC ENGINEERING

Henry Nicholas Baumann, Jr.

B.S. in Min.E., University of Washington, 1911
 Thesis: Heat Balance Studies of Ceramic Kilns

MASTER OF SCIENCE IN MINING ENGINEERING

Howard Smith Davis

B.S. in Min.E., Pennsylvania State College, 1925
 Thesis: Stratification on a Coal-washing Table

MASTER OF FORESTRYFloyd Willard Cory^M

B.S.F., University of Michigan, 1924
 Thesis: The Influence of Canadian Competition on the Pulpwood Industry
 of the Pacific Coast

MASTER OF SCIENCE IN PHARMACY

Caty Josephine Braford

B.S. in Pharm., University of Washington, 1925
 Thesis: A Pharmaceutical Study of Syrup of Ferrous Iodide, 1840-1927

Russell Arnon Cain

B.S. in Pharm., University of Washington, 1925
 Thesis: A Physico-Chemical Study of the Leaves of Three Medicinal Plants in
 Relation to Evergreenness

Marguerite Alice Hammond^D

B.S. in Pharm., University of Washington, 1926
 Thesis: The Examination of Gautheria Shallon for Volatile Oil and Glucosides

Violet Kum-Feng Wong

B.S. in Pharm., University of Washington, 1927
 Thesis: A Pharmaceutical Study of Syrup of Hydriodic Acid, 1860-1927

MASTER OF BUSINESS ADMINISTRATION

Archie Campbell Edwards

B.B.A., University of Washington, 1924
 Thesis: The Bonded Warehouse vs. the Free Port

Sotero Estepa

B.A., University of Washington, 1926
 Thesis: The Philippine Currency

Fred Edward Forster

LL.B., Chicago Kent College of Law, 1915
 B.B.A., University of Washington, 1925
 Thesis: The Valuation of Public Utilities for Rate-Making Purposes as set forth
 by the Federal Courts in the United States

Sarah Helen John^A

B.S. in Commerce, Oregon Agricultural College, 1922
 Thesis: Community Advertising in the Pacific Northwest

Chang Pei Yuan

B.B.A., Nankai College, 1915
 Thesis: The International Aspect of the Chinese Silk Industry

MASTER OF FINE ARTS

Florence Ruth Todd^D

B.A., College of Puget Sound, 1924
Thesis: Illustration for Child's Book

DOCTOR OF PHILOSOPHY

Paul Stanton Bachman

B.A., Ohio State University, 1921
M.A., University of Washington, 1925
Thesis: John Marshall's International Law Doctrine

Philip Gordon Colin

B.S. in Ch.E., University of Washington, 1923
B.S. in E.E., University of Washington, 1925
Thesis: A Laboratory Study of Nitrogen Fixation by the High Tension Arc Reduced Pressure

Edgar Marion Draper^M

B.A., University of Washington, 1916
M.A., University of Washington, 1925
Thesis: A Philosophical Study of the Contribution of Extra Curricular Activities to School and Community Citizenship

Edwin Harold Eby

Ph.B., University of Chicago, 1923
Thesis: American Romantic Criticism, 1815 to 1860

William David Fuller^D

B.A., University of Wisconsin, 1911
M.A., University of Maine, 1918
Thesis: An Investigation of Some Problems of Administration Confronting the Public Junior Colleges of California

Forest Jackson Goodrich

B.S. in Pharm., University of Washington, 1914
M.S. in Pharm., University of Washington, 1917
Thesis: Oenanthe Sarmientosa

Cecil Leonard Hughes^M

B.Ed., University of Washington, 1921
M.A., University of Washington, 1923
Thesis: The Development and Present Status of Music Instruction in Secondary Education in the United States

Roger Williams Truesdail^A

B.S., University of Redlands, 1921
M.S., University of Oregon, 1922
Thesis: The Vitamin—A Content of Pacific Coast Salmon Body Oils

Dudley Wilson Willard

B.Ed., University of Washington, 1917
M.A., University of Washington, 1922
Thesis: A Social Critique of Current Tendencies in Health Education

Sophus Keith Winther^D

B.A., University of Oregon, 1918
M.A., University of Oregon, 1919
Thesis: Matthew Arnold's Literary Reputation

NORMAL DIPLOMAS

UNIVERSITY-FIVE-YEAR NORMAL DIPLOMA

<p>Aber, James Finis Ackley, Elene Adams, Susanna Catherine Alexander, Frank E.^A Allehoff, Julia (Sister Mary Alicia)^A Allen, Lois Maxine Altergott, Alexander Jr.^D Anderson, Ida Belle^D Anderson, John Adolph^D Anderson, Margaret Galloway Arend, Harry O. Armann, Edith Elizabeth Ashley, Ethel Marie^A Ashton, Philip Frederick^D Atkins, Edith May Aumann, Dorothy Maud^M Aust, Ruth</p> <p>Baes, Engla Bernice Bailor, Wallace Floyd^A Baker, Rena Rose^A Bale, Genevieve Georgiana Barclay, Margaret Martin Barker, Loris T. Barnwell, Cecile K.^A Bartine, Wesley Bartholomew Baumgartner, Grace^D Beal, Maud Layton^D Beck, Jean^A Belden, Miles Bebee^A Belknap, Mae Stephens, Bennett, Wynona Pearl Bettinger, Dawn Loueze^A Beutel, Margaret Anne^D Bigley, John Bird, Emma Marie^D Bishop, Dorothy Lynwood^A Black, Dorothy Leone Blackaller, Mary Louise Bliss, Grace Eldred Bloom, Edward Franklin Bloom, William Howard Blue, Ellen Eugenia^A</p>	<p>Bolt, Emma (Sister Mary Leonella)^A Boyker, Maxine Marie Bradley, Florence Doris^D Branshaw, Frances (Sister Mary Veronica)^D Bradshaw, Grace Elizabeth Brewer, Vincent Robert Britton, Cathryn Margaret Bromley, Mercy Cove Brown, Cecil Clark^A Brown, Florence Louise Brown, Kathryn Louise Bruff, Ettie Julia Brunner, Elma Margaret^M Burnett, Alta Hazel^D Burns, Dorothy Frances Burns, Jessie Elizabeth Burnside, Margaret Ann Busch, Vera Butler, Dorothy Lucille</p> <p>Cahoon, Mabel Campbell, Josephine Marie Hiller^A Carlander, Gertrude Carlson, Mabel Carlson, Ruth Lily Elenora^A Carsow, Elsie L. Cartwright, Edward D. Cathey, Franklin Warren^A Cavanaugh, Esmer Dorothy Chandler, Berniece Claire Chapman, Merna Louise Charlesworth, Ruth Chase, Dorothy Grace Chase, Jennie Alberta Christy, Dagmar Carola^D Church, Ruth Margaret^D Clancy, Margaret Clark, Celia Lucile^A Clarke, Katherin Lucille Clein, Lillian^M Cline, Ida Riste^A Coats, Florence Elizabeth^A Conant, Estella Louise</p>
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Cone, Dwight Harthan^A
 Connolly, B. Genevieve
 Converse, Adelia M.^D
 Cook, Richard H.^D
 Coon, Amy Grace
 Corey, Elva Florence
 Cowden, Neva La Rue^D
 Craft, Doris Thelma
 Crane, Alice Elizabeth
 Craven, Dorothy^D
 Crawford, Roberta Margaret
 Crouter, Carrie Maud
 Curry, Eva Philip^D

Daly, Mary Elizabeth^M
 Daut, Audrey
 Deasy, Catherine Marie^A
 DeMary, Dorothy Putnam
 Devanna, Aileen Winifred
 Dick, Bessie M.
 Dick, Miriam Russell
 Dick, R. Sherman
 Dickinson, Dorothy June
 Dickinson, Irene Ysobel
 Didzun, Oscar J.^M
 Dilling, Margaret Stevens
 Dillon, Ruby, L.^A
 Dingle, Virginia
 Dodge, Elva Mabel^D
 Donahue, Alfred Bernard^A
 Donaldson, Hallie^A
 Dougherty, Ruth Millicent^D
 Douglas, Jean Elizabeth^A
 Driscoll, Anna Marie^M
 DuBois, Frances Georgene
 Dunbar, Helen Frances
 Duncan, Margaret M.
 Dunn, Florence Steele^A
 Durose, Fred Wesson^A
 Duwe, Dora^A
 Dwire, Gertrude^D
 Dykstra, R. G.^A

Eagleson, Helen Jane
 Eckrem, Dagrund Lillian^A
 Edwards, Pauline Kennett
 Eidal, Elmer Oliver^A
 Erlanger, Katherine Brown
 Evans, Catherine^M

Ferguson, Lois Genevieve
 Ferry, Frances^M
 Finn, Mary
 (Sister Mary Josephine)^A
 Finnegan, Frances
 Fiscus, Louis R.
 Fisher, Mary Alma

Flock, Eunice Verna^A
 Flynn, Madeline Lucille^M
 Forrest, Veda^A
 Fowlkes, Florence Vickers
 France, Muriel E.
 Franklin, Alice Mae
 Fraser, Edna Mary
 Fraser, Russell Edward
 Friderici, Hazel Eugenia
 Frost, Leona King

Gallagher, Margaret Eileen^D
 Gallinger, Edythe Myldred^D
 Gaul, Leona Louise
 George, Dorothy Adella
 George, Mary Martha
 Gerriets, Bertha Lucy
 Gilbertson, Alma Christine
 Gilleland, Mary Rynd
 Gingrich, Esther Marie
 Glaze, Nina Muncy^A
 Gorrell, Winifred Genevieve
 Gorton, Samuel Hiram^M
 Grace, Elizabeth Buchanan
 Grafft, Clark Francis
 Grass, Lorette B.^D
 Gray, Virginia Hallock
 Green, Marvel Josephine
 Gross, Katherine J.^D
 Gross, Marjorie Graves^M
 Grove, Claire MacA.^D
 Grove, Leon Conner^A
 Guay, Emma Collard
 (Sister Mary Dominic)^D
 Guthrie, Elton Ferdinand^D

Habicht, Helen M.^A
 Hackett, Clara Allison
 Hagar, Irene A.^A
 Hahn, Genevieve K.^D
 Hahner, Olive Margaret^A
 Hale, Eleanor Elizabeth
 Hall, George Mason^A
 Hall, Ruth Virginia
 Hamilton, Bernice M.^A
 Hammond, Allen O.^A
 Handy, Virginia Showalter
 Hanks, Josephine Beatrice
 Hannum, Margaret Lucinda
 Hansen, Helen A.
 Hansen, Herbert^A
 Harden, Mabel Zulema
 Harshman, Agnes Campbell^M
 Hatley, Porter J.^A
 Haug, John Meyer
 Hawk, Frank H.^D
 Hazen, Oliver Miner

Hecht, Ruth Elizabeth
 Heffernen, Agnes
 (Sister Mary Austin)^A
 Heise, Irvin F.^A
 Henderson, Frank Downey^A
 Herman, Helen H.
 Herod, Mignon
 Hinman, Agnes Lorene
 Hinsdale, Helen L.
 Hitchman, Betty Josephine
 Hoag, Alberta
 Hodge, James Wesley^A
 Hoffland, Laura Hildreth^A
 Hoffman, Dorothy Sylvia^A
 Hoffman, Marian
 Holden, Blanche L.
 Hopkins, Eugenia Victoria^D
 Howatt, Alice I.
 Hughes, Margaret Clair
 Huletz, Helen Marie
 Hurd, May^A

 Ireland, Gertrude Goodrich
 Isom, Max Dana

 Jackson, Virginia Winston
 Jeffery, Harold Baker
 Jennings, Tillie^A
 (Sister Mary Floretta)
 Jensen, Margaret Irene
 Jensen, Thomas Martin
 Johnsen, Pauline^D
 Johnson, Arthur Franklin^A
 Johnson, Berkley G.^A
 Johnson, Carl Gustaf^A
 Johnson, Mariam Marie^A
 Johnson, Paul William
 Jones, Estelle E.^D
 Jones, Ione Louise^A
 Jones, Wilfred Roscoe^M
 Judd, Marie

 Kamb, Leona^A
 Kane, Kathleen
 Kane, Olive Cecelia
 Kautz, Bernice Q.^A
 Kemper, Phyllis Janet^M
 Kennedy, Elizabeth
 Kettenring, Elizabeth Eleanor
 Kimball, Stanley Genlis
 Kimple, William A.
 King, Eleanor Virginia^A
 King, James G.^A
 Kirsch, John Bernard
 Knowlton, Charlotte Jane
 Kochevar, Dorothy Lorene
 Koert, Peter^A
 Kopika, Irja
 Kullberg, Jule Helen

LaFromboise, Clarence Brown
 Lambert, Helen Marie^A
 Larkin, Lucretia Starr^M
 Larson, Nettie Rose^A
 Larson, Olga Madeline^M
 LaVine, Gladys Morrill
 Lawen, Amalia Regina^A
 Layton, Mildred Glenrose
 Leathers, Arthur Le Ray^M
 Leatherwood, William F.^A
 Lermond, Helen A.
 Leslie, Anna
 Levitin, Morris^M
 Leyman, Garnett Valentine
 Libby, Annie E.
 Limbach, Dorothy Helen^A
 Lind, Anna Regina
 Liston, Edward J.^A
 Littlefield, Lena Experience
 Logan, Lorna Eileen
 Loken, Clarice Elizabeth
 Loving, Marianne^M
 Loman, James Guy^A
 Lowrie, Ruth Almira
 Lundy, Oliver G.
 Lynch, Patricia Genevieve^D
 Lynch, Thomas Charles^A

 McAllister, Geraldine Marie^D
 McCarthy, Margaret Eleanor^A
 McClure, Willard
 MacDonald, Sarah Isabel
 McDonnell, Audrey
 McElvain, Ernest Emerson^D
 McFaddin, Helen Jane
 McFee, Louisa Catherine^M
 MacGowan, Clara
 McIntosh, Margery Phidelia
 McKay, Alice
 McKinnell, Eloise McPherson
 McLain, Ada Esco^A
 McLaren, Marian Esther
 McLaughlin, Helen York
 McLennan, Susan Isabel^D
 McNary, Catherine
 McRae, Ruth Moore
 MacKenzie, Clemewell Loraine
 Moses
 Mahone, Lena Louise^D
 Mantei, Vega Patterson^A
 Martin, Trula Evelyn^A
 Matheson, Margaret J.
 Mattila, Walter Oscar
 Maydahl, Bergete Olga
 Metcalf, Thelma Bernicce^A
 Meyers, Liv Alice

Mielke, Helen Evelyn
 Milam, Carey Harris^A
 Milford, Mersel
 Miller, Adelaide Lavina
 Miller, Grace Whiting
 Miller, Raymond Paul
 Mills, Mabel S.
 Miner, Grace Edith^A
 Mitchell, Webster Lee
 Mollestad, Marie Schober^A
 Montgomery, Anna H.
 Moran, Helen Frances^A
 Morgan, Lucile
 Morgan, Ruth Eleanor
 Moseley, Robert Duncan
 Mowat, Helen Frances
 Mowry, Ellen Rachel
 Muir, Mary
 Murray, Jane Frances^M
 Myers, Doris Maurine
 Nanney, Albert M.^A
 Nardin, Alphonse Charles
 Nash, L. Catherine
 (Sister Mary Edwardine)^A
 Neely, C. Bertis^A
 Nelson, Evelyn Ida
 Nesalhouse, Gertrude Marie
 (Sister Mary Ambrosia)
 Nessly, Dorothy Elizabeth
 Newberry, Amelia Ella
 Newton, May E.
 Neylon, Mary Teresa
 Niesen, Helene J.
 Noftinger, Edith Jeanne^D
 Norton, Frances Ramona

Oldfield, Alice A. Dominica
 (Sister Mary Dolores)^D
 O'Leary, Helen Kathleen
 Olney, Dorothy Sue
 Olsen, Bergliot Nancy
 Olson, Olaf Ebert^D
 Osterman, Henrietta^A

Parker, Agnes Frances
 Pashley, Harry Brust^A
 Peach, Helen Agnes
 Peairs, Goldia Lucille^A
 Pease, Estelle Elizabeth
 Pellegrini, Rosalie Leila
 Penington, Ruth Esther
 Percival, Dorothy Louise
 Perring, Norman Claud
 Perry, Mary Agnes^A
 Peters, Laura Beatrice
 Peterson, Amy Kathryn^M
 Peterson, Edith N.

Peterson, Ida Gertrude^A
 Peterson, Marie Laura^A
 Pettigrew, Anna Thompson^A
 Pettigrew, Elizabeth
 Philippi, Herbert^A
 Philpot, Pauline^A
 Pierce, Florence Barbara
 Porep, Helen Caroline
 Potts, Theresa Ann^A
 (Sister Mary Lourдина)
 Predmore, Alice Elizabeth
 Pugh, Venetia Elizabeth

Raber, Ruth Marion
 Ramsay, Ruth Rhodes^A
 Rasmuson, Evangeline
 Rathbun, Anna Louise^M
 Raum, Dorothy^M
 Raymond, Ethel Gertrude^A
 Reeder, Verna Terry^A
 Refling, Norman
 Remy, Frances Louise
 Renshaw, Mildred Belle
 Richards, Thelma Arlene
 Riss, Arthur Henry
 Riss, Eleanor Gross
 Robertson, Angeline Turinsky^A
 Roe, Edith Muriel
 Roe, Howard Earl
 Rogers, Catherine Amy
 Rollinger, Dorothy
 (Sister Mary Josepha)^A
 Rosen, Johanna Josephine^A
 Ross, Lemuel^A
 Rovig, Helen L.
 Rowe, Abbie Elizabeth^A
 Rude, Hazel Irene^A
 Ruidl, Philip F.
 Russell, Alice Pearl

Samzelius, Alpha L.^A
 Sandall, Loretta M.
 Sandbrink, Alice Margaret
 Schaeffer, Claude Everett^M
 Scheffer, Theodore Comstock^D
 Scheuerman, Ruby Irene
 Schenken, Robert Crocker^D
 Schrader, Neva L.
 Schrock, Clarice Mazie
 Scott, Frances Isabel^A
 Scott, Hilda Isabelle
 Scott, Marjorie^A
 Secrest, Ruth Viola
 Seidenfeld, Morton Alfred
 Seifert, Helen Louise
 Selde, Alice Frances^A
 Sell, Myrtle May^A

Sey, Martha Coral
 Sheehan, Paul Vincent^A
 Sheets, Hilma Ilene
 Sheldon, Dorothy E.^A
 Sheller, Dorothy Enid
 Shephard, Kathryn Mary^A
 Sherrer, Helen More^A
 Shidler, Harold^M
 Shinabargar, Jean Doreen^D
 Shoulderer, Marguerite Dorothy
 Showell, Gwendoline
 Simpson, Donald^A
 Sims, Bertha May
 Sisler, Dorothy Muriel
 Sjaastad, Anna Olivia^A
 Skansie, Clementine Agatha
 Smith, Hjordis Carloa
 Smith, Leah Ina Littlefield
 Smull, Victor Albion
 Sorensen, Harry Daniel^M
 Sprinkle, Frances Margaret
 Stafford, John B.
 Stager, Helen Elizabeth^M
 Stalberg, Vera C.
 Starr, Geraldine^A
 Stedman, Vera H.
 Steeves, Blanchard Perley
 Stephens, Irene N.
 Stewart, Dorothy Cecelia
 Stewart, Florence B.
 Stewart, Ruth
 Stone, Lucia May^A
 Stoner, Juanita June^A
 Storey, Guinevere C.^A
 Stover, Leona Hope^A
 Strand, Sophie^M
 Sundquist, Ida Elvira^A
 Sunnell, Bertha Alexandria^A
 Suomela, George Edward
 Sutherland, Alice Wood^A
 Sutherland, Ethel Emogene
 Swanson, Dorothy Miller
 Swanson, Myrtle Lenea^A
 Swedine, Elmer

 Talbott, Mary Morris
 Tarleton, Julie Marjorie
 Taylor, Chester Alban^A

Taylor, William David Jr.
 Thompsen, Dorothy Elizabeth^D
 Thompson, Ethel Marion^A
 Thompson, L. Katherine
 Thompson, Margaret J.
 Thorn, Alfred Amel
 Thorne, Thelma May
 Thrun, Beatrice Dorothy^A
 Tilton, Kenneth Elwood^A
 Townsend, Florence Elizabeth
 Townsend, Lorita Marguerite
 Travis, Virginia L.
 Traffry, Ralph Paul^D
 Tryggvi, Carl
 Tucker, Roy Francis

Vandivort, Mary Harriett
 Varney, Adah May^A
 Vaughan, Frances Clare^M

Walck, Ida Rozelee
 Wallace, Jean Margaret
 Walsh, Grace Ann (Sister Mary
 Michael)^A
 Walsh, Helen Bernice
 Walsh, Mary Louise^A
 Ward, William Eugene^D
 Ware, Jeannette Huntington
 Waters, Ellen Harriet
 Watkins, Minnie Jane^A
 Weir, Mary Frances
 Westall, Albert James^A
 Weyermann, Oscar Ferdinand
 Whelan, Elizabeth McDowell
 White, Helen Katherine^A
 White, Myrtis
 Whitmore, Pearle R.
 Whitner, Lois Elaine Bennett
 Wolfe, Katharine Alice^A
 Wolfe, Dael Lee
 Wright, Harriet Isabelle^A
 Wright, Parke A.^A
 Wright, Quintin Bertram^A
 Wynn, Thomas Delaney
 Wynstra, Walter Scott^A

Young, Mary Glendowin^A

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

Javato, Fermin

Straight, Robert^D

UNIVERSITY LIFE DIPLOMA

Adamson, Merritt Christopher ^A	Long, Agnes ^A
Anderson, Helen Dorothy ^A	Lynch, Isabelle Reis ^A
Arnell, Rebecca	McGuinness, Mary Rice ^M
Batdorf, Beryl	McKay, Zenda Lorraine ^A
Bedell, Mary E. ^A	McNerthey, Catherine (Sister Mary Margaret) ^A
Bewley, Ruth Lynette	Mallery, Mildred McClane
Bille, Margaret Jane ^A	Morgan, Frances Lillian
Bousfield, Winifred	Morris, Ruby Ada
Bowman, Ward Simon ^A	Moultrop, Lena V. ^A
Buhl, Frances Helen	Nordholm, Olga Eleanora
Caulkins, Glenn Whitman ^A	Nutley, Margaretta Stuart
Clark, Elizabeth Roulston ^A	Ouren, Marian ^A
Clarke, Lillian ^A	Paulsen, Pauline Alberta
Coleman, Raymond W. ^D	Perkins, Georgia Yost ^A
Corner, Miriam Gardner ^A	Peterson, Inez Helena ^A
Creamer, Evelyn Marion	Peterson, Ole Theodore ^A
Daughterty, Anna Mott ^A	Raasch, Leonard O. ^A
Davies, Elizabeth ^A	Rasmussen, George Vincent ^D
Davies, Enid ^A	Reuter, Alexia M. ^A
Donahoe, Agnes M. ^A	Robinson, Katharine Una ^A
Doremus, Della Ellen ^A	Roop, Milford William
Drake, Helen Hazel ^A	Russell, Florence Margretta
Drake, Mildred Ethyl ^A	Ryan, Helen Theresa ^A
Edgerton, Ernest Benjamin	Satoris, Madelyn Veronica ^A
Edwards, George W. ^M	Schmid, Byron Clayton ^A
Elwick, Andrew ^A	Schofield, Marguerite Catherine ^D
Ford, Gertrude Catherine	Sealls, Rachel Joyce ^A
Foster, Olive Reeves ^A	Shidler, Edwin Williamson ^D
Foster, Philip Robert ^A	Simas, Frances M. ^D
French, Merle Carolyn ^A	Steele, Susie Frances ^A
Fulton, Lois Mildred ^M	Stone, Nellie Cecelia ^A
Galbraith, Mary Grace ^A	Summers, Doris Edith ^A
Geer, Bernice Lura ^A	Sundling, Doris Mae ^A
Gellerman, Louis Wanger ^A	Towne, Arthur H. ^A
Gernaey, Louise ^D	Turner, Lloyd Edwin ^A
Gerriets, Eva Alice	Turner, Lucille Marie ^A
Gray, Helen Frances ^A	Virtue, Jessie Hardy ^A
Groth, Joyce Irene ^A	Wann, Arva W. ^M
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Hodge, Frances Bakeman ^M	Watkins, Ina Ree ^A
Imus, Raymond McKinley ^A	Watson, Anna Elizabeth ^A
Jackson, Betty	White, Myrtle Pauline ^A
Johnson, Isyl Florence ^M	Whitehead, Francis Virgil ^A
Kangley, Lucy ^A	Wilson, Emma Jeannette
Keith, Allie Hazelton	Wilson, Lucile Harriet ^A
Kimball, Jessie M.	Wilson, William Gray ^M
Kirkham, Martha Bernice ^D	Wood, Agnes Jaspersen ^A
Kravik, Valois Murray ^A	Woods, Rachel Angeline ^D
Larkin, Frances Emma	Woods, Ruth Elizabeth ^A
Larse, Mona J. ^A	Young, Ecile Frances ^A
Legg, Emily ^A	
Lilly, Stella Audrie ^A	

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Charles Horowitz

This award is made upon the basis of the best record for scholarship and personality made by any member of the present graduating class during the three years of law and his name is inscribed upon the plaque presented by the honorary law fraternity of Phi Alpha Delta.

UNDERGRADUATE SCHOLARSHIP HONORS
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Aronin, Anna (L.A.)	Jensen, Lucie (Educ.)
Bell, Hazel Lamar (L.A.)	Johns, Leota Lois (L.A.)
Bolster, William (Engr.)	Joyce, Wallace Robert (Engr.)
Bradley, Arvid M. (Journ.)	Kimura, Tadao (L.A.)
Bransford, Thomas Lowe (L.A.)	McGill, Ruth (L.A.)
Brown, Edwin Gordon (B.A.)	McKay, Elizabeth Margaret (Sci.)
Burns, Harry H. (L.A.)	Martin, Thelma E. (L.A.)
Carter, Leo Alexander (Engr.)	Mickelwait, Lowell P. (B.A.)
Clark, Robert Granger (L.A.)	Miller, Franklin (B.A.)
Cluck, J. Raymond (L.A.)	Mund, Vernon A. (B.A.)
Cohen, Rose (L.A.)	Myers, Dorothy Clara (B.A.)
Delanty, William H. (B.A.)	Nedelsky, Leo (Engr.)
Draper, Dorothy E. (B.A.)	Newell, Richard L. (Engr.)
DeWitt, Ruth Evelyn (F.A.)	Patzer, Sidney (L.A.)
Edwards, William W. (L.A.)	Peterson, Arleen (L.A.)
Falk, David Richard (B.A.)	Shepard, Evelyn (L.A.)
Fenton, Elizabeth Warren (L.A.)	Sidell, Irving Theodore (B.A.)
Fowler, Wallace Elder (B.A.)	Skinner, Selby M. (Sci.)
Freund, Julia (L.A.)	Snoke, Albert Waldo (Sci.)
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Herbsman, Virginia (B.A.)	Thornton, Marion Janet (Journ.)
Hinckley, Kathryn (F.A.)	Troja, John Baptiste (Engr.)
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Hoff, Hebbel Edward (Sci.)	Van Valin, Carl Frederick (Fish.)
Hughes, Katherine W. (Sci.)	Wilson, Evelyn M. (F.A.)
Jennings, Elizabeth (L.A.)	Zimmerman, Frances (L.A.)

SECOND JUNIOR HONORS

Anderson, Katherine Eva (L.A.)	Newman, Ruth Levens (Sci.)
Birdseye, Story (L.A.)	Oliver, Marguerite J. (L.A.)
Botsford, J. Lawrence (L.A.)	Park, J. Howard (Engr.)
Boyd, Jennette Dorothy (L.A.)	Patjens, Irene Lillian (L.A.)
Brandner, Henry Philip (For.)	Pearson, Mabel V. (F.A.)
Brewitt, Everilda (F.A.)	Peterson, Alma F. (Sci.)
Brooks, William Edward (Phar.)	Peterson, Arthur C. (Engr.)
Bunge, Winifred M. (L.A.)	Peterson, Claire Anabel (F.A.)
Cartano, Margaret C. (L.A.)	Pickard, Ward L. (Journ.)
Champers, Jesse Earle (For.)	Potter, Helen Agnes (L.A.)
Chatterton, Katherine W. (Sci.)	Potter, Ruth Antoinette (Sci.)
Crawford, G. Marshall (Sci.)	Proffitt, Lehman Maurice (B.A.)
Dodson, Eleanor (L.A.)	Raitt, Janet Mahood (Sci.)
Elmore, Ann (L.A.)	Ralls, Roberta (L.A.)
Froula, Olivia (B.A.)	Reid, Alice Mildred (L.A.)
Grady, Mary Alice (Sci.)	Reise, Herman Adolph (Engr.)
Hadsell, Robert Lee (B.A.)	Rueger, Clarence Raymond (F.A.)
Hall, Margaret Olive (Educ.)	Ryan, Frank William (L.A.)
Hanson, Elsie Linnea (B.A.)	Ryan, Grace Henrietta (L.A.)
Harris, John Franklin (L.A.)	Sankela, William Emanuel (For.)
Hillyer, Theodore F. (L.A.)	Shipley, Dorothy (Educ.)
Hirschman, Joy (Sci.)	Snelling, Lewis B. (For.)
Hutchins, Lewis R. (L.A.)	Stokes, Margaret Ruth (L.A.)
Iverson, Lyle Louis (L.A.)	Templeton, David Dryden (B.A.)
Jessen, Christine (Sci.)	Tilley, John Norman (Sci.)
Johns, Harold Nash (L.A.)	Tower, James Allen (L.A.)
Johnson, Eloise Ruth (L.A.)	Tracy, Jack Stewart H. (B.A.)
Kunde, Norman Fredrick (Educ.)	Tucker, Margaret (Educ.)
Lytel, Richard Edward (F.A.)	Wallace, Lenore Ardis (Educ.)
March, Martha Jane (L.A.)	Wang, Laura Katherine (L.A.)
Maslan, Aaron L. (Law)	Weil, Helge (B.A.)
Mills, Orville H. (Law)	Willman, Richard C. (Engr.)
Morry, Lucile K. (L.A.)	Wright, Paul Wernitch (Educ.)
Moulton, Helen Rebecca (L.A.)	

FIRST SOPHOMORE HONORS

Ashby, Paul Flesher (L.A.)	Major, Sidney Walter (L.A.)
Baird, Harriet Warner (L.A.)	Marple, Elliot (L.A.)
Barbour, Dana Mills (L.A.)	Meacham, Larned Ames (Engr.)
Bass, Ernest (B.A.)	Miller, Paul Warren (B.A.)
Blatt, Eva (B.A.)	Mills, Eileen Elizabeth (L.A.)
Bonnar, Robert U. (Sci.)	Ness, Elaudine D. (B.A.)
Brandt, Ralph L. (L.A.)	Nicholson, Catherine J. (F.A.)
Curry, Eula Marie (L.A.)	Padley, Willine Julianna (L.A.)
Duff, Marion Louise (Sci.)	Partridge, Edith Mae (L.A.)
Freed, Joseph Edward (B.A.)	Plum, Lester Virgil (L.A.)
Gideon, Edith Margaret (Sci.)	Quigley, Marian Lillian (L.A.)
Gorham, Elaine Standish (L.A.)	Rhodes, Helen Harvey (L.A.)
Gow, Paul Louden (Sci.)	Riseland, Alice E. (B.A.)
Grunbaum, James Edward (F.A.)	Rodgers, Roe P. (Engr.)
Harby, Sam Farkas (L.A.)	Schoegg, Carl (B.A.)
Hardy, Martha E. (L.A.)	Searls, Helen Elizabeth (L.A.)
Haring, Robert Clinton (Engr.)	Smith, Lenore Christine (Sci.)
Hicks, John Frederick Gross (Sci.)	Snyder, Helen Vernon (L.A.)
Hinckley, Martha Ann (F.A.)	Stangeland, Helen Jane (L.A.)
Hitchman, Robert Bruce (L.A.)	Stansbery, Norman Claudius (B.A.)
Johannsson, Lincoln Stigur (L.A.)	Stritch, Irene Isabel (L.A.)
Johnson, Mildred Elvira (B.A.)	Strohl, Wellington M. (Engr.)
Kelly, Edgar Andrew (Pharm.)	Strother, Charles Reddell (L.A.)
Kidder, Eleanor (L.A.)	Sutherland, Anette Ora F. (Sci.)
Leedy, Virginia (Sci.)	Tadlock, Ruth Violet (L.A.)
Libert, Norman Francis (Pharm.)	Westberg, Frederick H. (B.A.)
McIntosh, Loys Maude (F.A.)	Wetherell, Russell (L.A.)
McSwain, Josephine W. (L.A.)	Williams, Ward DeWitt (L.A.)
Maas, Johannette (L.A.)	Wirth, Henry Edgar (Sci.)

SECOND SOPHOMORE HONORS

Angus, Dulcie Alberta (L.A.)	Karr, Day Payne (L.A.)
Bailey, Florence Miriam (Sci.)	Layton, Clarence Elmer (L.A.)
Beeson, Paul Bruce (Sci.)	Lash, Anna Viola A. (L.A.)
Bergstrom, Charlotte Maryann (Sci.)	Lippincott, Crispin (L.A.)
Borgeson, Gerda Teresia (L.A.)	Louie, Stanley (Pharm.)
Borgeson, Jennie Olivia (L.A.)	McElhaney, Marie L. (F.A.)
Brandt, George (B.A.)	McKenney, Margaret (L.A.)
Brown, Pauline (L.A.)	McLaughlin, Catherine (L.A.)
Butt, Donald, Ritchie (L.A.)	McLeod, Sarah Hammond (L.A.)
Cohn, Mildred (L.A.)	McPherson, Mildred (F.A.)
Condon, Robert Wilkins (For.)	Manion, Joseph Bitney (B.A.)
Corbett, Helen Alberta (L.A.)	Markus, Edythe Joyce (L.A.)
Coughlin, Margaret Mary (L.A.)	Miller, Henry Augustus (B.A.)
Cram, Jack Randolph (L.A.)	Miller, Hortense Hickman (Sci.)
Crothers, Muriel Adeline (L.A.)	Nickell, George Thomas (L.A.)
Durham, Howard E. (L.A.)	O'Meara, Erma Kathryn (L.A.)
Engel, Ernest Dirck (Engr.)	Porter, Robert Dickey (Engr.)
Falk, Julius Bernard (L.A.)	Rattray, Marjorie Elizabeth (Sci.)
Fenton, Henry Root (L.A.)	Rauschert, Bryan L. (Engr.)
Fish, Vynor Starr (L.A.)	Rawson, Frances I. (F.A.)
Flanagan, George Clemens (For.)	Russell, Betty (F.A.)
Fleming, Glenn B. (L.A.)	Scholl, Miriam Grosser (L.A.)
Fletcher, James Vertner (L.A.)	Sey, Harriet Ann (L.A.)
Fragen, Nathan (Engr.)	Slipper, Lorna Elizabeth (Journ.)
Furey, Frances Clare (L.A.)	Suffel, William Ewart G. (L.A.)
Chiglione, Maybelle Maria (L.A.)	Tippett, Wilma (F.A.)
Gilmer, Mary G. (Mrs.) (L.A.)	Tripp, Audrey C. (L.A.)
Golden, Constance (B.A.)	Vaa, Lawrence Edwin (Engr.)
Gould, Marie Louise (L.A.)	Wagner, Robert H. (Engr.)
Gulick, Margaret (L.A.)	White, Ronald Cedric (B.A.)
Jones, Dorothy Adelaide (L.A.)	Willigar, Florence Mertie (Sci.)
	Wilson, Thelma Lydia (L.A.)

FRESHMAN HONORS

- Abel, Marian Jeannette (L.A.)
 Allen, Flora Sophie (F.A.)
 Allen, Josephine Elizabeth (Sci.)
 Altick, Grace Marie (F.A.)
 Austin, Lucia Catherine (L.A.)
 Ayers, Mildred Claire (F.A.)
 Bailey, Raymond Lull (L.A.)
 Balcom, Maurice C. (L.A.)
 Bargmeyer, Ernest Gerard Henry
 (Engr.)
 Barthell, Russell William (L.A.)
 Bartley, Bruce Edson (L.A.)
 Bass, John Milton (B.A.)
 Bayly, Esther Rose (L.A.)
 Benediktson, Herdis Gudrun (L.A.)
 Bennett, John Leonard (L.A.)
 Bourke, Edward Richard (F.A.)
 Bowen, Mary Elizabeth (L.A.)
 Bradburn, George Burnell (Pharm.)
 Brady, Anna Louise (L.A.)
 Bresnan, Rose Amelia (L.A.)
 Brown, Dorothy Margaret (Sci.)
 Bushell, Donald Gair (L.A.)
 Butler, Maurice Conklin (L.A.)
 Campbell, Una D. (L.A.)
 Cartano, John D. (L.A.)
 Caughlan, John G. (L.A.)
 Coats, Robert Roy (Mines)
 Codling, Jack William (Pharm.)
 Connick, Edwina Frances (L.A.)
 Copenhagen, Helen M. (Sci.)
 Curtis, William Long (Sci.)
 Dahlman, Margaret (L.A.)
 DeGarmo, Paul Ernest (Engr.)
 DeLacy, Emerson Hugh (L.A.)
 Delaurenti, John (B.A.)
 Deyette, Catherine (L.A.)
 Dingle, John Holmes (Pharm.)
 Donahue, Marion Mary (L.A.)
 Duff, Alec (L.A.)
 Duncan, Marian Agnes (F.A.)
 Dunseath, Clifford Leroy (B.A.)
 Duvall, Lois Irene (L.A.)
 Ellis, Muriel S. (L.A.)
 Fickel, Doris (L.A.)
 Fields, Elise Grace (L.A.)
 Flint, Dorothy June (Sci.)
 Ford, Edwin Gilliard Jr. (L.A.)
 Foster, Elizabeth Jane (L.A.)
 Frazier, James Wood (L.A.)
 Freeman, Jack Dixon (L.A.)
 Frost, Pearl Dorothy (F.A.)
 Frost, Dorothy Martha (L.A.)
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 Gandy, Ellen Margaret (L.A.)
 Gill, Lewis Pressley (B.A.)
 Ginger, Grace M. (L.A.)
 Godfrey, Nellie Jane (Sci.)
 Goings, Dwight Delton (B.A.)
 Gordon, Blanche (L.A.)
 Grier, Elizabeth (Sci.)
 Grimes, Nancy Virginia (L.A.)
 Guernsey, Charles E. (B.A.)
 Guth, Earl (Pharm.)
 Hadley, Elsie Jane (B.A.)
 Hall, Calvin S. Jr. (L.A.)
 Hamley, Frederick George (L.A.)
 Hanna, Ralph Wesley (L.A.)
 Hansen, Carl Christian (Engr.)
 Harris, Isabel (L.A.)
 Harrison, Orpha Helen (F.A.)
 Hazel, George Ralph (B.A.)
 Hedgcock, Howard Wm. (L.A.)
 Hegg, Agnes Constance (F.A.)
 Hertsche, Marjorie Adelaide (L.A.)
 Hicks, Retha Ann (L.A.)
 Hilke, Mary Elizabeth (F.A.)
 Hill, Anne Katherine (F.A.)
 Hillebrecht, Elsa Lois (Pharm.)
 Hinkle, Van Ronald (L.A.)
 Hinman, Gail Hamilton (L.A.)
 Hirakawa, Joe T. (L.A.)
 Hodgson, Dorsey Dwight (F.A.)
 Hoshino, Helen Hideko (Pharm.)
 Hulet, Howard Frank (B.A.)
 Igelsrud, Iver (Sci.)
 Ingham, Thomas Reed (Sci.)
 Ireland, Cornelia (L.A.)
 Jack, Thomas Malcolm (Engr.)
 Jackson, Earl William (L.A.)
 Johnson, Einer Ernest (Pharm.)
 Johnson, Eleanor Mildred (Sci.)
 Johnson, Mildred Emmelyne (F.A.)
 Johnson, Nettie Ruth (Sci.)
 Johnson, Florence Evelyn (Sci.)
 Jolley, Irving (Sci.)
 Jones, Ivor (Pharm.)
 Jones, Richard F. (B.A.)
 Katzenmeier, Rosalie D. (L.A.)
 Keller, Jack Daniels (L.A.)
 Kellogg, Ruth Adelaide (L.A.)
 Kenyon, Margaret Thorp (Sci.)
 Kernohan, Frank P. (F.A.)
 Kettenring, Fred McLean (Mines)
 Killen, Evelyn Frances (L.A.)
 Kinney, Gladys Virginia (B.A.)
 Lee, John Hawkins (L.A.)
 Lehde, Constance E. (L.A.)
 LeSourd, Francis Ancil (B.A.)
 Levy, Richard Roger (B.A.)
 Lewis, Margaret Ruth (L.A.)
 London, Jessie Brooks (L.A.)
 Long, Katherine Scott (L.A.)
 Lukes, Janet Elizabeth (L.A.)
 McCormick, Wilda May (B.A.)
 MacDonald, Charlotte H. (L.A.)
 McDonald, Phyllis (L.A.)
 McDowell, Dan Wallace (Pharm.)
 McMath, Margaret M. (L.A.)

McReavy, John Morgan (B.A.)	Robb, Betty Stewart (L.A.)
Mackey, Jack Morgan (Engr.)	Rowe, Helen Edna (F.A.)
Macmillan, Paul Samuel (L.A.)	Rutherford, Dorothy A. (L.A.)
Miller, Dorothy Fay (B.A.)	Schenk, Elizabeth (L.A.)
Mitchell, Katherine Gertrude (L.A.)	Scott, Dorothy Allen (L.A.)
Morbeck, Donald Charles (B.A.)	Scott, Winston (Sci.)
Myers, Abraham Francis (Engr.)	Seaburg, Helen V. (L.A.)
Nakaseko, Kazu (F.A.)	Shagren, Margaret P. (L.A.)
Nelson, James Cecil (Sci.)	Shanstrom, Helen M. (L.A.)
Nicholson, Mary Irene (B.A.)	Smith, Thomas Stewart (F.A.)
North, Jeanette H. (Sci.)	Snyder, Carolyn Catherine (Sci.)
Oles, Dorothy Virginia (L.A.)	Snead, Katherine F. (B.A.)
Olson, Harry LeRoy (L.A.)	Spencer, John (B.A.)
Olson, Leone Gertrude (L.A.)	Sorensen, Oscar S. (Sci.)
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Pfisterer, Elsa (L.A.)	Stover, Lois Cornelia (L.A.)
Phillips, Joseph Clayton (L.A.)	Stub, Sylvia Antonia (L.A.)
Phillips, Lillie Irene (L.A.)	Stratton, Doris Virginia (L.A.)
Plymire, Reginald Floyd (Engr.)	Striker, Kenneth Louis (F.A.)
Potts, Helen Lea (L.A.)	Sweet, William Herbert (Sci.)
Rahe, Florence Marguerite (L.A.)	Swanson, Carl Martin (L.A.)
Rasmuson, Elmer Edwin (L.A.)	Tutte, Mavis Jaquelin (L.A.)
Raudenbush, Lenora Marie (B.A.)	Welch, Helen Elizabeth (F.A.)
Raudenbush, Nellis Louella (B.A.)	White, James Aubrey (Engr.)
Reeves, Elizabeth A. (F.A.)	Whitely, Ruth Lillian (Sci.)
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Riches, Doris Elizabeth (B.A.)	Wolf, Marjorie M. (F.A.)

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UNITED STATES ARMY

SECOND LIEUTENANT, INFANTRY

Russell Stanley Bunker	Carl August Kilgas
Edwin Warner Chopson	William O. Lea
William Henry Churchwell	Andrew Cook McGill
John Henry Harris, Jr.	Halbert Sutliff Moran
William Elmer Hempstead	Lewis Knowles Osborn
Eugene Stayton Hicker	Lawton Mickell Patten

SECOND LIEUTENANT, COAST ARTILLERY

Arthur David Cook	Sedric Arthur Payette
Erling Horn	Clarence N. Roose
Max Dana Isom	Claus Henry Stamm
Nels E. Johanson	Paul Jaromer Strizek
Henry Burton Joseph	Russell Vincent
John Donnell Miley	

SECOND LIEUTENANT, AIR CORPS

Lawrence Theodore Broeren	Ted Keith
Duane Monroe Covington	William Stanton Martin
Edward Willoughby Davidson, Jr.	Ward William Roney
Earl Wilson Goff.	Clayton Allen Scott
Harry Henke, Jr.	Frederic Eastland Templeton
Melvin Alfred Jenner	

University of Washington

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

JUNE 13, 1927

THE LORETTA DENNY FELLOWSHIPS

Victor Elliott Wellman (Chemistry)

B.A., Phillips University, 1924
M.S., University of Washington, 1927

Joseph Cohen (Sociology)

B.A., University of Washington, 1926

Alice Lathrop Gundlach (Philosophy)

B.A., University of Washington, 1924
M.A., University of Washington, 1926

Alternates

Emmett Theodore Bodenber (Botany)

B.S., Capital University, 1925
M.S., Ohio State University, 1926

Lawrence E. Karrer (Electrical Engineering)

B.S. in E.E., University of Washington, 1927

Irving Kittell (Mathematics)

B.A., South Methodist University, 1924
M.S., University of Illinois, 1926

THE ARTHUR A. DENNY FELLOWSHIPS

Thomas William Bibb (Education)

B.A., William Jewell College, 1908
M.A., University of Washington, 1927

Max Donald Cornu (English)

LL.B., University of Washington, 1922
M.A., University of Washington, 1926

Norman Claude Perring (History)

B.A., University of Washington, 1927

Clementine Evans (Pharmacy)

B.S. in Pharm., University of Washington, 1927

John Maurice McAneny (Mining Engineering)

B.S. in Ch.E., University of Washington, 1927

FELLOWSHIPS IN THE COLLEGE OF MINES AND THE NORTHWEST EXPERIMENT
STATION, UNITED STATES BUREAU OF MINES

(For 1926-1927)

Vance Cartwright (Ceramics)

B.S. in Ch.E., University of Washington, 1926

Howard Harry Mansur (Ceramics)

B.S. in Ch.E., University of Washington, 1926

Howard Smith Davis

B.S. in Min.E., Pennsylvania State College, 1925

THE DUPONT FELLOWSHIP

Meryl Deming

Scholarships and Prizes, 1927

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THE BON MARCHE INDUSTRIAL FELLOWSHIP

Hazel May Rennoe (1926-1927)

Laura Betty McBrien (1927-1928)

THE EFFIE I. RAITT RESEARCH FELLOWSHIP IN NUTRITION

Alice Sherfy Houston (1926-1927)

Jessie O'Keefe (1927-1928)

THE GRACE G. DENNY RESEARCH FELLOWSHIP IN HOUSEHOLD BUDGETING

Marie Madden Power (1926-1927)

THE ISABELLA AUSTIN MEMORIAL SCHOLARSHIP

Eileen Belden

THE GAMMA PHI BETA SCHOLARSHIP

Gudrun Eide

THE FREDERICK AND NELSON SCHOLARSHIPS

Lela May Ketchum

Clarence Ray Suffron, Jr.

Alternates

Nola Ethel Muck

Charles J. Johnston

THE VENINO SCHOLARSHIP IN MUSIC

Leonardeen Miller

THE MU PHI EPSILON SCHOLARSHIP IN MUSIC

Eleanor Hale

Kathleen Kane

THE BEECHER KIEFER MEMORIAL SCHOLARSHIP IN MUSIC

Samuel Couch

THE LADIES MUSICAL CLUB SCHOLARSHIP

Rachel Mowry

THE PAUL KARSHNER MEMORIAL SCHOLARSHIPS

Margaret Linde

Talbot Hartley

PUYALLUP UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP

Robert Brown

THE P. E. O. SCHOLARSHIP

Ethel Lois Wilkie

THE SCHOLARSHIP TO THE FONTAINEBLEAU SCHOOL OF FINE ARTS IN FRANCE

Jack Woodmansee

THE DUNCAN FULLER MEMORIAL SCHOLARSHIP

Jack Paterson

THE JUDGE ALFRED BATTLE PRIZE IN PUBLIC SPEAKING AND DEBATE

Edward Berolski

Charles Strother

University of Washington

THE FRATERNAL ORDER OF EAGLES PRIZE

Reno Silliman

Samuel Harby

THE PHILO SHERMAN BENNETT ESSAY PRIZE IN POLITICAL SCIENCE

Story Birdseye

THE CARKEEK PRIZE IN LAW

Orville C. Hatch, Jr.

THE CARSTENS AND EARLES ESSAY PRIZES IN BUSINESS ADMINISTRATION

Russell Rogers

Robert L. Hadsell

David Templeton

Harlan W. Gorham

THE CHARLES H. BEBB PRIZES IN ARCHITECTURE

Waldo McKinney

Paul Thiry

Jack Woodmansee

THE GLADDING-MCBEAN TERRA COTTA COMPANY PRIZES

George Nakashima

Oliver Noji

Wayne Deemer

THE CHARLES LATHROP PACK FOUNDATION PRIZE IN FORESTRY

Gus Arneson

THE OMICRON NU PRIZE IN HOME ECONOMICS

Mertie Willigar

THE PACIFIC COAST ADVERTISING CLUBS ASSOCIATION

Alfred Goldblatt

THE ITALIAN COMMERCIAL CLUB GOLD MEDAL FOR EXCELLENCE IN ITALIAN

Tadao Kimura

Helen H. Rhodes

THE LEHN AND FINK GOLD MEDAL FOR PHARMACEUTICAL ESSAY

Ruby Hirose

THE AMERICAN PHARMACEUTICAL ASSOCIATION GOLD MEDAL FOR
EXCELLENCE IN PHARMACY

Lillian Clein

THE AMERICAN INSTITUTE OF ARCHITECTS MEDAL FOR DISTINCTION
IN DESIGN

Hugo Osterman

THE FREDERICK AND NELSON SMALL HOUSE COMPETITION

Donald McDonald

Clifford Clausen

LaMonte Shorett

THE LINTON MEMORIAL AWARD

L. W. Tobey

JUNIOR MILITARY PRIZE

Bernard Lowenstein

Prizes Not Awarded

THE JUDGE KENNETH MACKINTOSH PRIZE IN DEBATE

THE JAGGARD PRIZE IN LAW

THE A. MERLINO PRIZE

DEGREES

CONFERRED JUNE 11, 1928

COLLEGE OF LIBERAL ARTS

BACHELOR OF ARTS

August, 1927

<p>Aalbu, Dorothy Agbayani, Pedro B. Anderson, Louise May (<i>cum laude</i>) Arnold, Georgia Vera Attebery, Hester Josephine Ayers, Ethel Florence (<i>cum laude</i>) Ballaine, Wesley Charles (<i>cum laude</i>) Blair, Lynette (<i>magna cum laude</i>) Brody, Leon David Carter, Nura Dorothea Cohn, Rose Marie Cole, Sylpha Josephine Cummings, Blanche Mary Dickson, Belle Lucille Elliott, Stanley Minto Genauer, Sam Godsey, Bess Helsel Gorham, Helen Margaret Grant, Jeanie Marion Hamblen, Ruth Dickie Hawkins, Hazel Marion Henke, Harry, Jr. (<i>cum laude</i>) Henriot, Jane Calenet (<i>cum laude</i>) Hermann, Ida M. Hughes, Martha Ellen</p>	<p>Johnston, Margaret Edna Kerry, Albert S., Jr. Lambrecht, Lillian Miller, Amalia Frances Monday, Sybil Monsen, Hildur Stahrfooss North, Stella M. O'Brien, Elizabeth Marie Oleson, Mabel Helena Olson, Warren E. Osten, Winnifred Peterson, Sophie Roberts, Ina Streete Rothaus, Marie Theresa (Sister Mary Rose de Lima, O.S.D.) Scanzon, Anna Virginia Scott, Elsie Margaret Stone, Ethel Viola Talbot, Ernest Reeve Thole, Marjorie Frances Ulsaker, Ida Mathilda Wahl, Leonora Marie Warner, Grace Elizabeth White, Rosalind F. Wilson, Mary King</p>
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December, 1927

<p>Adams, Ruth Marjorie Anderson, Larz Beckwith, Frances Kay Beers, Frank Troxell, Jr. Bogert, Madeline Vanden Bolles, Thomas Darley Brown, Margaret Parkin Davis, George Swanton Dusenberry, Inez Mae Garden, Kathryn Louise Garner, Louella Garrott, Jean Hampton, Jane Grant Huff, Elizabeth Kelley, Albert Henry Kwapił, Dorothy Louise Latimer, Vernon Guthrie</p>	<p>Marsh, Harold Burton Miller, Eloise Nakagawa, Yoriaki Neikirk, Claire Eugénie Neill, William James Paysse, Doris Pearson, Mabel Didriksen Person, Henry Axel Scoville, June Idyline Shank, Edward Allan Smith, Katherine Macrae (<i>magna cum laude</i>) Soth, James Tom Thompson, James Arthur Van Stralen, Francis John Ventura, Jose</p>
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Graduates are listed according to the dates on which they received their degrees.

March, 1928

Arnold, Evert Frank
 Backland, John, Jr.
 Bunje, Emil Theodore Hieronymus
 Conway, Jack
 Dishnow, P. Sylvia
 Erickson, Roosevelt
 Greely, Myril Jay
 Haglund, Ivar
 Hanley, Mary Veronica
 Henry, Florence (*cum laude*)
 Johnson, Grace A. F.
 McNaughton, James Woodruff
 Mayer, Alexander

Meshner, Mose
 Nichols, Jane
 Nissley, Maria Anne
 Raichle, Marcus S.
 Riste, Victor Emerson
 Savage, George Milton, Jr.
 Shannon, Henry Alviens
 Swan, Nora J.
 Townsend, Paul Allerton
 Walker, Margery Katherine
 Whitcomb, Rollo R.
 Zillman, Lawrence John (*magna cum laude*)

June, 1928

Adamson, Anna Robinson
 Anderson, Elizabeth M.
 Anderson, C. Ermont
 Anderson, Esculene
 Ashley, Wanda Josephine
 Austin, Helen
 Bache, Hazel K.
 Bare, Margaret Hope
 Beckett, Eleanor May (*cum laude*)
 Bell, Hazel Lamar
 Bloomfield, E. Jervis
 Blum, Robert
 Botsford, James Lawrence (*cum laude*)
 Boyd, Jennette Dorothy
 Brandmeier, Blanche Wilhelmina
 Bransford, Thomas Lowe (*cum laude*)
 Bringloe, Marguerite Elizabeth
 Brisbin, Wilma
 Brix, Harold Herman
 Brownell, Ruth
 Bungay, Ellen Louise
 Bunge, Winifred Mathilde
 Burnett, Mariana Ruth (*cum laude*)
 Burns, Harry Hamilton
 Campbell, Lillian Hankins
 Cardwell, Elizabeth Katharine
 Carlson, Carl R.
 Cartano, Margaret Carolyn
 Chapman, Virginia
 Chase, Ruth Evelyn
 Clark, Robert Granger
 Cluck, J. Raymond (*summa cum laude*)
 Cowling, Merle Winnifred
 Dawson, Dorothy Bernadean
 DeFrest, Grace Helene
 DeGabriele, Eugene Marius
 Dishnow, Jay V.

Eastwood, Emily Louise
 Edwards, Helen
 Ehrhardt, Dorothy Chace
 Eide, Gudrun Cecelia
 Embree, Mary John
 Endres, Teresa
 Estey, Emily Smith
 Featherstone, Harriet
 Fisher, Kenneth Robinson
 FitzGerald, John Loyola
 Fjarlie, Aagot Jeannette
 Folsom, Morrill Frederic
 Fonacier, Guillermo Cristobal
 Franke, Elizabeth Louise
 Freeman, Abe
 French, Raymond Theodore
 Freund, Julia Clara (*magna cum laude*)
 Gaffney, Ruth Avanelle
 Garbe, Frank Arthur
 Garrecht, Caroline Teresa
 Gates, Alice Elizabeth (*magna cum laude*)
 Gemmell, Nina Eleanor
 George, Evaline Beryl
 Gillespie, Margaret R.
 Glenn, Wesley Stacey (*cum laude*)
 Goldblatt, Alfred
 Goldblatt, Helen Bertha
 Good, Lydia May
 Gowen, Sylvia Mary
 Graham, Elizabeth Emily
 Greenwood, Lucille
 Guttormsen, George Charles
 Hagen, Evelyn
 Hansen, Inga Marjory
 Harris, John Franklin
 Harsch, Orlena Frances
 Hastings, Jessie Lou

Herren, Naomi Elizabeth
 Higgins, Myra Marie
 Hill, Martha Emily
 Hill, F. Way Woody
 Hillyer, Theo Frances
 Hilton, Maud Helen
 Hirschbuhl, Katherine Mary
 Hubbell, Myra Leslie
 Hunt, Frances Clarke
 Hutchins, Lewis R.

Iversen, Lyle Louis

Jacobs, Maxine Rosalie
 Janson, Raymond Helm
 Jennings, Elizabeth
 Johns, Harold Nash (*cum laude*)
 Johnsen, Pauline Bernice
 Johnson, Alida Ruth
 Johnson, Anne Irene
 Jorgensen, Erna Martha

Kassebaum, Karl Frederick (*magna cum laude*)

Kelly, Virginia Villars
 Kent, Omer James
 Kimura, Tadao (*cum laude*)
 King, Esther
 Kinsey, Ronald Clarke
 Kirker, Ruth Sutton
 Knight, Annalou
 Knight, Homer Tibbetts
 Knutson, Marie Louise
 Kramer, Ferdinand

LaPlant, Mary
 Lauer, Edna W.
 Leaf, Grace Mildred
 Lillquist, Elma Carolyn
 Longenbaugh, May Moore
 Ludington, Kathryn Lee
 Lombard, Roy Morse
 Lund, Esther Ragnhild
 Lynch, Elizabeth

McAnally, Carrie
 McCallum, Donald Sinclair
 McCartney, Francine Lee
 McDonald, Alice Isabel
 McDonald, Georgene
 MacEwan, John Dougald
 McGill, Ruth
 McSorley, M. Lillian
 Main, Frank Whitney
 March, Martha Jane
 Mason, Frederick Pixley
 Miller, Helen Edythe
 Milward, Doris Lillian
 Miner, May

Mitchell, John George
 Moore, Bryant Willard
 Morgan, Helen Ethel (*cum laude*)
 Morrison, D. Grant
 Morry, Lucile Katherine (*magna cum laude*)

Moser, Stephen Benjamin
 Murray, Margaret Elizabeth

Nahhas, Emmeleine Edith
 Nelson, Helen Clare
 Ness, Conrad Christian
 Norie, Martha Gertrude

Oliver, Marguerite Josephine (*cum laude*)

O'Mahony, Mary Helene
 Opstad, Edwin R.

Parr, Katherine Eugenia
 Parrington, Louise Wrathal
 Patzer, Sidney
 Peterson, Arleen May (*cum laude*)
 Petkovits, Xenia Patricia
 Phelps, Hugh Carnes
 Polson, Genevieve Corine
 Potter, Helen Agnes

Raban, Adelyne F.
 Ramstedt, Mary
 Ratliff, Coralie Esther
 Reid, Alice Mildred
 Reinhart, Madeline C.
 Rickard, Richard Manderville
 Rohrbough, Wanda Marie
 Rose, Jean Margery
 Rose, Julia Florence
 Rosenstein, Sophie (*cum laude*)
 Ruddell, Hazel
 Ryan, Grace Henrietta

Saunders, Virginia
 Scheitlin, Frieda (*cum laude*)
 Sears, Edith Katherine
 Seijas, Amador
 Shepard, Evelyn Elizabeth
 Sherman, George Witter
 Smith, Adelia Louise (*cum laude*)
 Snyder, Loyal Truman Rhodes
 Stafford, Elizabeth
 Stewart, Una Andrew
 Stidd, Ruth Margaret
 Stone, Ida Sue
 Stybor, Winifred Marie
 Sugimachi, Yaemitsu
 Swan, Clarice
 Thomson, Henry E.
 Toner, Martin Emmett
 Tower, James Allen (*cum laude*)
 Tyler, Albert Wilson, Jr.
 Underwood, Irma Victoria

Vandercook, Esther
 von Hellens, Glory
 Walker, Phyllis
 Wall, Kathlene Darden
 Wang, Laura K.
 Warner, Mary
 Watt, Phoebe
 Welch, C. Douglass
 Whiteleather, Hazel Glenne

Winegar, Roger McDannell
 Woelfel, Paul Grimaux
 Wolz, Elise Amalie
 Wood, Edna Maurine
 Wood, Laura-Linda Falconer
 Woodworth, Alice Anne
 Wortham, Robert Allen
 Zimmerman, Frances (*cum laude*)

COLLEGE OF SCIENCE

August, 1927

BACHELOR OF SCIENCE

Adams, Julius Gordon
 Beek, John, Jr.
 Holmes, Charles Merton
 Le Neve, Nina Faith
 Olson, Avary Herman

Pool, Stephen C.
 Pugsley, Frances
 Thompson, Randall Leslie (*cum laude*)

BACHELOR OF SCIENCE IN GEOLOGY

Jacobson, Duncan Andrew

BACHELOR OF SCIENCE IN HOME ECONOMICS

Clemmer, Ruth
 Finseth, Karen Dorothy
 Fox, Alta C.
 Himes, Velma Violette
 Jacobs, Winifred Ewell (*summa cum laude*)

Jones, Leola Grace
 Near, Maxine
 Patch, Esther ArLee
 Slick, Opal M.
 Van Tilborg, Elizabeth Dorciane

BACHELOR OF SCIENCE IN NURSING

Olcott, Virginia

Smith, Marian Alice

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Abrams, Evelyn Violet

BACHELOR OF SCIENCE IN ZOOLOGY

Floed, Frances Margaret

Morgan, Marjorie Lillian

December, 1927

BACHELOR OF SCIENCE

Barnett, Mack F.
 Broeren, Lawrence Theodore
 Dawson, John Cecil
 Fouts, Marcia Irma

Grahn, Edgar Rudolph
 Moffitt, David Dwight
 Pomeroy, Merritt Allan
 Sanchez y Glifonea, Isabelo

BACHELOR OF SCIENCE IN HOME ECONOMICS

Andrews, Harriett M.

BACHELOR OF SCIENCE IN MILITARY SCIENCE

Vincent, Russell

BACHELOR OF SCIENCE IN NURSING

Hall, Lura Florence

March, 1928

BACHELOR OF SCIENCE

Atkins, Charles Burwell
Harris, David Maurice

Hoff, Ebbe Curtis (*summa cum laude*)
Hoff, Hebbel Edward (*summa cum laude*)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Daggett, Annie Rachel
Eiffert, Opal Jean

Kleinlein, Esther Marie
Skagen, Cora Jean

June, 1928

BACHELOR OF SCIENCE

Adams, Sidney
Allen, Harvey Stuart
Barkley, Dorothy True
Chapple, Guernsey Phillips
Chatterton, Katherine W.
Churchward, Philip Edson
Cutter, Glen George
Dean, Florence Myrah (*cum laude*)
Eldridge, Una
Eng, Richard Tak
Forbes, Evelyn Gertrude (*cum laude*)
Gorow, Frank Fletcher
Greene, Henry Campbell
Hale, Warren W.
Hirschmann, Doris Joy
Kohlruss, Frederick J.
Lassek, Arthur Marvel

Leon, Gordon H.
McKay, Elizabeth Margaret
Marchand, Morgan Coble
Matsen, Roy
Miller, Hugh Kennedy
Montfort, Mary Leslie
Petersen, Alma F.
Phifer, Lyman DeArmond
Schimke, Harold
Scott, Sara
Snidow, Beulah F.
Snyder, James L.
Torney, John Alfred, Jr.
Williams, J. Aloysius
Williams, Kenneth Thurman
Wolthausen, Raymond Charles
Woodin, Vernetta Diadama
Zeeb, Kathryn Ardath

BACHELOR OF SCIENCE IN BACTERIOLOGY

Sogn, Harold Elmo

BACHELOR OF SCIENCE IN BOTANY

Jewett, Elsie Kristine

BACHELOR OF SCIENCE IN CHEMISTRY

Allison, Elton Roland
Anderson, Lucile
Dickinson, Lawton William
Long, James Glenn

Moore, Burta Louise
Semb, Balwen Arthur
Tilley, John Norman (*cum laude*)

BACHELOR OF SCIENCE IN HOME ECONOMICS

Archibald, Nina Margaret	Libbee, Frances Alice
Bidlake, Florence Harriet	Morrison, Marjorie Elizabeth
Blair, Sara Palmer	Parks, Goldie Sheets
Brewitt, Everilda	Parsons, Elizabeth Josephine
Butt, Dorothy Heath	Peterson, Elizabeth Catherine
Cory, Vilva Katherine	Potter, Ruth Antoinette
FitzGerald, Florence Hortense	Reichert, Marguerite Catherine
Jessen, Christine	Stickels, Carrie Elaine
Jones, Elisabeth Spalding	Swartz, Fanny Wintler
Kelly, Evelyn Lavene	Thode, Helen Virginia

BACHELOR OF SCIENCE IN MATHEMATICS

Kenyon, Juanita	Koth, Everett Francis
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BACHELOR OF SCIENCE IN MILITARY SCIENCE

Lauer, Charles Eugene

BACHELOR OF SCIENCE IN NURSING

Greer, Jean Elizabeth	Miller, Harriet Posey
Gustafson, Katherine Theodora	Sullivan, Ora Gertrude

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

Cook, Marjorie Jane	Newman, Ruth Levens
Dix, Florence	Pendleton, Dorothy Iris
Dudley, Dorothy Hale	Scott, Ruth Loretta
McMaster, Frances	Tainter, Frances Miller
Morris, Clydene Lauretta	

BACHELOR OF SCIENCE IN ZOOLOGY

Anderson, Andrew Leonard	Snoke, Albert Waldo (<i>magna cum laude</i>)
Schunke, Gustave Bernard	

SCHOOL OF EDUCATION

August, 1927

BACHELOR OF ARTS IN EDUCATION

Andersen, Agnes Ruth	Durrwachter, Irma Martha
Atwood, Gertrude Mae Guild	Egbers, Mark Wayne
Barker, Gertrude B. (<i>cum laude</i>)	Eidal, Otto Clarence
Bloomer, Cecilia	Elder, Raymond Washington
(Sister Elizabeth Clare)	Flavin, Ruth Anne
Brook, Alice Lee	Forster, Crescentia
Brown, Sarah Elizabeth	(Sister Mary Clementine)
Burpee, Margaret P.	Fuller, Frances Olive
Button, Arthur Oscar	Grebe, Enid Anita
Chastain, Maude	Green, Kathleen Marian
Dabney, Elmer Stratton	Hansen, Augusta
Daniels, Mary	Harrison, Aldine Madele
Davies, Anne (<i>cum laude</i>)	Howe, Ramel Elaine
Dittmer, Clarence Clifford	Hutton, Evelyn Ida

Ihle, Thilda
 Jones, Hannah
 Keene, Mildred Yockey
 Kelly, Genevieve
 (Sister Esther Mary)
 Knight, Rebecca Scott
 Lake, Maria Lucile
 Lloyd, Edna Beatrice
 McDonald, Cecelia Marie
 McGuinness, Charles D.
 McIntosh, Elizabeth Orr
 McKenzie, Earl Lincoln
 Mitchell, Perry Howard
 Moore, John H.
 Morgan, Coral
 Mullen, Loda Helen
 Odegaard, Leonard Sylvester
 Oliver, Egbert S.

Pearson, Anna Catherine (*cum laude*)
 Pedersen, Thora H.
 Purves, Neil H.
 Robison, B. B.
 Russell, Lelia M.
 Sievers, Esther Elsy
 Southard, Edna Lutz
 Sullivan, Frankie
 Taake, Yeteve Eames
 Van Hoomissen, Anna Maria
 (Sister Mary Veronica of Milan)
 Webster, Florence Downend
 Weymouth, Faye Caurice
 Whaley, Milo Ballard
 Whillans, Ellen
 Wood, Esther Mary
 Young, Catherine Augusta

BACHELOR OF SCIENCE IN EDUCATION

Fry, Iva Margaret
 Furgeson, Leora V.
 Geer, Willard (*cum laude*)
 Hurd, Guy Winfield

Neale, Mary Ellen
 Stowell, Ernest Paul
 Whittaker, Jack Ernest

December, 1927

BACHELOR OF ARTS IN EDUCATION

Freeman, Trunette Aust
 Gillespie, James Clark
 Glanville, Arthur Tennyson
 Knutson, Knute J.
 Le Blanc, Ethel Mildred
 Neilsen, Hazel Emma
 Posey, Naomi-Mae

Ryan, Mary (Sister Gabriel Ryan)
 Smith, Thomas S.
 Stout, Maxine
 Thune, Alta Lillian
 Van Zante, Jean
 Wallace, Marjorie
 West, Martha Alice

BACHELOR OF SCIENCE IN EDUCATION

Schusman, Dorothy Jean

March, 1928

BACHELOR OF ARTS IN EDUCATION

Calder, Mary Etta
 Cederberg, Theodore
 Domingo, Liberato S.
 Hynes, Philomena Lillian
 Leach, John Harvey (*summa cum laude*)
 Miller, Carrie Lowry

Neal, Russell Leroy
 O'Connell, Caroline (Sister Margaret of St. Dominic)
 O'Hara, William James
 Parker, Alfred
 Stuber, Esther Elouise

BACHELOR OF SCIENCE IN EDUCATION

Hurlburt, Frances Myrtle

Hurley, Coila Pearl

June, 1928

BACHELOR OF ARTS IN EDUCATION

- | | |
|---|---------------------------------|
| Albin, Vera G. | Jeffries, Mary Ethel |
| Alcabedas, Buenaventura P. | Kelleher, Marion Julia |
| Allez, George Clare | Kenyon, Ethel Mae |
| Anderson, Elmer Jerome | Lee, Burling Vincent |
| Anderson, Ruth Agda | Lee, Evelyn Rita |
| Baker, Dorothy | Lewis, Hannah Whiting |
| Berlin, Helen Marie | Lohse, Blanche Louise |
| Blauert, Paul Henry | Lyst, Miriam |
| Bower, Marie Patterson | McLean, Margery Elizabeth |
| Boyd, Helen | Martin, Robert Ray |
| Breakey, Glenn Maurice | Meeks, Ruby |
| Brickert, Josephine E. (<i>magna cum laude</i>) | Moller, Helen Badgley |
| Brown, Leela May | Monroe, John R. |
| Camp, Eva Marshall | Porter, Helen Annah |
| Case, Katherine Marie | Ramos, Manuel Somera |
| Casey, Mildred Laura | Reinken, Christine |
| Chute, Esther H. | Richardson, Mary Joyce |
| Craig, Genevieve Adelaide | Riley, Mary Elizabeth |
| Crowley, Mary Louise | Rousch, Minnie Aubrey |
| Culver, Mary L. | Savage, Anne Elizabeth |
| Darr, Dorothy | Savage, Audrey Christene Helenc |
| Davis, Manima Wilson | Shiple, Dorothy |
| Dedrick, Grace | Siderfin, Dorothy Gwendolyn |
| Derrah, Edward A. | Steed, Mable Ann |
| de Soto, Alexander Phillips | Stoll, Lorena Dorothy |
| DeYarmon, Ada L. | Takai, Sumi-ko |
| Dillon, Sue | Thomas, Ferne Agnes |
| Fairbanks, Eugenia | Tucker, Margaret |
| Fisher, Grace D. Hoover | Verney, Louise Estelle Summers |
| Fisken, Ruth Kerr | Walsh, Inez Josephine |
| Frisbie, Chester Calvin | Walsh, Mildred Ursula |
| Glenn, Harry Calvin | Waltz, Margaret Elizabeth |
| Goettling, Gladys Whitney | Warde, Gertrude Elizabeth |
| Gray, Rose | Whitnell, Helen Margery |
| Griggs, Jay Howard | Willer, Sonia June |
| Hall, Margaret Olive | Wilson, Earl Richard |
| Hartney, Margaret Ruth | Worman, Eugenie Hutchinson |
| Hatch, Charles Edward | Wright, Miriam Frances |
| Herren, Dora Smith (<i>cum laude</i>) | Wright, Paul Wernitch |
| | Yeck, Lois E. |

BACHELOR OF SCIENCE IN EDUCATION

- | | |
|---------------------------|--|
| Clark, Evelyn Gordon | Ouren, George Frederick (<i>cum laude</i>) |
| Guyer, Dorothea Pemberton | Skalley, Kathleen |
| Hall, Alvin Morris | Travis, Ira Merle |
| Jensen, Lucie Eleanor | |
| Kunde, Norman Fredrich | |

COLLEGE OF FINE ARTS

August, 1927

BACHELOR OF MUSIC

Hyland, Mary Adelaide
Olson, Gladys Judith

Pannell, Shirley Gwendolyn

BACHELOR OF FINE ARTS

Brown, Jane
Johnston, Marjorie Dean
McClain, Dorothy Elizabeth

Painter, Esther Elvira
Washington, Lillian M.

BACHELOR OF ARTS IN DRAMATIC ART

Glasgow, Marian Joyce

Macdonald, Aristelle

December, 1927

BACHELOR OF MUSIC

White, Lorna Carolyn

BACHELOR OF FINE ARTS

Gunnell, Mary Brunot

June, 1928

BACHELOR OF ARTS IN MUSIC

Polet, Emily P.
Potter, Dorothy Anne

Walton, Florence Elizabeth
Wilson, Helen Grace

BACHELOR OF MUSIC

Arneson, Gladys Amelia	Hedges, Elizabeth M.
Avery, Dorothea Patricia	Hepperle, Charlotte
Balsiger, Helen Margret	Hoska, Helen Rogene
Barker, Edna Thiele	Huff, Elizabeth Naomi
Barnhart, Margaret Helen	Johnson, Elizabeth Harriette
Bloxom, Virginia	Kretsinger, Helen Maury
Bromberg, Bernice	Myhre, Clara Margaret
Burgeson, Elna Marye (<i>cum laude</i>)	O'Keane, Frances Eleanor
Callender, Marguerite Weston	Peterson, Anabel (<i>cum laude</i>)
Chester, Helen Elizabeth	Schwarz, Eleanor Margaret
DeWitt, Ruth Evelyn (<i>magna cum laude</i>)	Scott, Mary Katharine
Dunham, Earline Viola	Shaw, Marian Estelle
Dunn, Lucy	Sicade, Sarah Belle
Flatebo, Helga	Smith, Alverna Rowena
Graves, Virginia Sheffield	Smith, Dorothy Louise
Greenberg, Eloise	Terwilliger, Beulah May
Gregg, Dorothy Dean	Tesack, Kathryn Elizabeth
Harrison, Helen Barlow	Weisberg, Hildegarde
Hartley, Zelma Jeanne	Wilson, Evelyn Minnie (<i>magna cum laude</i>)
Head, Pauline	Wooden, Retta Elberta
Hearty, Aileen Louise	

BACHELOR OF ARCHITECTURE

Bellamy, Tennys Francis
 Chester, William G.
 Loners, Harry

Noji, Oliver Katsu
 Russell, George Vernon

BACHELOR OF FINE ARTS

Arnold, Winifred Haynes
 Beckmann, Jewel Melba
 Compton, Ann Loretta
 Dearinger, Helen
 Eiffert, Dorothy Fae
 Field, Mary Louise
 Hall, Annabell Eleanor
 Hanson, Helen
 Harris, Marie Gertrude
 Hinckley, Kathryn
 Howell, Iras Claudia

Koger, Dorothy Mae
 Kroetch, Gertrude Claire
 Mallett, Mary Catharine
 Nyman, Rose M.
 Palpal-latoc, Paul P.
 Patten, Lawton Mikell
 Pearson, Mabel Valentine
 Schoppe, Mary Howat
 Smith, Frances Elaine
 Taylor, Kyle Eldon (*summa cum laude*)

BACHELOR OF ARTS IN DRAMATIC ART

Brandt, Evelyn Lila
 Lunn, Lois Josephine

Spear, Helen Elizabeth
 Williams, Helen Goss

COLLEGE OF ENGINEERING

August, 1927

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Porter, Charles Alexander

Wood, Lewis Clarke

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Bakeman, Charles T.
 Hunter, Stephen Carroll

Nelson, Paul Harry

BACHELOR OF SCIENCE (COMMERCIAL ENGINEERING)

Olson, Earl Stanley

December, 1927

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Thompson, Claude Sims

Wright, Calvert Charles

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Haner, Victor Cecil

Johnson, Oliver Bertrand

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Darragh, James B., Jr.
 Gammell, John
 Kelley, Warren Thomas
 Kossiakoff, Ivan Timothy

Manlucu, Alfonso Baluyut
 Morehodoff, John Alexis
 Yabroff, Elias

Smith, Herbert H.
 Stuermer, Ernest
 Swenson, Carl Russell
 Togo, Yone

Troitzky, Simeon P.
 Watt, Vernon Smails
 Willman, Richard Clabeau

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Byles, Elvin
 Castor, Thomas Davis

Newell, Richard L. (*cum laude*)
 Pennell, Donald Franklin
 Russell, Walter Harold

BACHELOR OF SCIENCE (COMMERCIAL ENGINEERING)

Asher, Benjamin Dyer
 Haller, Theodore

Russell, Alvia DeWitt

COLLEGE OF MINES

March, 1928

BACHELOR OF SCIENCE IN MINING ENGINEERING

Bard, Burton Edward

June, 1928

BACHELOR OF SCIENCE IN GEOLOGY AND MINING

Antonova, Helen

Smith, Harold B.

BACHELOR OF SCIENCE IN CERAMIC ENGINEERING

Baumann, Henry Nicholas, Jr.

COLLEGE OF FORESTRY

August, 1927

BACHELOR OF SCIENCE IN FORESTRY

Robertson, James Campbell Hay

March, 1928

BACHELOR OF SCIENCE IN FORESTRY

Champers, Jesse Earle
 Hartnagel, Nelson

Rowse, William Allen

June 1928

BACHELOR OF SCIENCE IN FORESTRY

Alutin, Alexander
 Blue, Albert Winston
 Bonamy, Douglas George
 Carlson, Floyd E.
 Gustafson, Rudolph O.
 Hart, Edward Graves
 Kidd, William Robert

McComas, Stanley
 Roberts, Cass Bentley
 Sankela, William E.
 Stratton, Harold Maxwell
 Walker, Cedric William
 Wiel, Kurt
 Woodworth, John William

COLLEGE OF FISHERIES

December, 1927

BACHELOR OF SCIENCE IN FISHERIES

Andreev, Nicholas N.
Greenwich, Alexander

McKee, Lynne G.
Thompson, Seton Hayes

March, 1928

BACHELOR OF SCIENCE IN FISHERIES

Brown, John Easton

Nizam, Ahamedur Rahman

June 1928

BACHELOR OF SCIENCE IN FISHERIES

Turnacliff, Dudley W.

COLLEGE OF PHARMACY

August, 1927

PHARMACEUTICAL CHEMIST

Fletcher, George Grant

Holland, Alfred M.

BACHELOR OF SCIENCE IN PHARMACY

Davis, Mildred A.

Holland, Alfred M.

December, 1927

PHARMACEUTICAL CHEMIST

Lee, Leo Raymond

March, 1928

PHARMACEUTICAL CHEMIST

Armstrong, Everett J.

BACHELOR OF SCIENCE IN PHARMACY

Hirose, Ruby Sato

June, 1928

PHARMACEUTICAL CHEMIST

Ballard, Noel Thaddeus
Blanchard, Margit Leonora
Borde, Ernest V.
Brown, Clarence H.
Campbell, Allen Donald
Cox, Cliveden Lloyd
Dassel, Walter Henery

Dean, Frederick Bonds
Doescher, Minnie Marguerite
Fields, Cecil R.
Garvey, Velma Clarine
Graham, Frederick A.
Gunderson, Harold Julien
Kelly, Edgar A. (*cum laude*)

Libert, Norman Francis (<i>magna cum laude</i>)	Smith, Margaret Armitha
Logg, Florence May	Thompson, Harry E.
McConkey, Roy C.	Todd, Oswald V.
McGraw, Ena K.	Verhulst, Herbert John
Millar, Melville M.	Walen, Harold Graydon
Neraal, Pauline	Wolff, Stanley D.
Plummer, Robert Hewetson	Woron, Ben

BACHELOR OF SCIENCE IN PHARMACY

Armstrong, Everett J.	Logg, Florence May
Benveniste, Isaac E.	McGraw, Ena K.
Blanchard, Margit Leonora	Magnuson, Carl Walter
Gunderson, Harold Julien	Monroe, Paul Alfred
Hayes, Margaret Mary	Poole, Abigail Beatrice
Jorgensen, Paul Simon	Tobey, Lono W.

COLLEGE OF BUSINESS ADMINISTRATION

BACHELOR OF BUSINESS ADMINISTRATION

August, 1927

Armstrong, William Lester	Shichinohe, Sanzo
Axe, Erwin Francis	Taylor, Robert Wallace
Cook, Arthur David	Waugh, Robert
Davis, William Richard	Weiss, Henry Carl
Johnson, Arnold Waldemar	Wolff, Thelma Blanche
Mehner, Pauline Esther	Wood, William Downie
Munn, B. Jane	Zener, Galen O.
Nelson, Earl John	

December, 1927

Borschell, Theron Alvin	Moran, Halbert S.
Briscoe, Jacob William	Nau, Thomas Potter
Davis, Frank Leslie	Odani, Juichi
Douglass, Donald David	Oliver, Orno R.
Harris, John D., Jr.	Orkney, James William
Hubbard, Ora	Pettit, Henry McEwan
Kilkenny, William Peter	Rogers, Russell
McKelvey, Muir	

March, 1928

Baker, Harold Valentine	Patchett, Ben Francis
Berg, Wilbur Ernest	Rae, Francis Harry
Camperson, Barton Hampton	Reep, Raymond Theodore
Denhof, Sherlie P.	Ripley, Cecil Ray
Dimalanta y Austria, Fortunato	Schlegel William Bernard
Dodson, James Milton	Sonju, Norman
Grahn, Clarence Alexander	Swearingen, Francis D.
Jensen, Henrietta Mae (<i>cum laude</i>)	Trow, Florence M.
Larson, David Raleigh	Walker, Edward Sawyer

June, 1928

Anderson, Carl G.

Behan, James Edward
Biggar, John Hall, Jr.
Bosco, Raymond
Brady, Culvin Ted
Brunner, Eugene CarlCarlson, Elmer William
Carlson, John, Jr. (*cum laude*)
Chinn, Yuin Kee
Churchill, Verne Gates
Clearman, Frederick Lloyd
Cochran, Neil Marcellus
Cole, Harold Cecil
Copenhaver, Edith Lucille
Cutting, Judson MillerDelanty, William Hugh
Draper, Dorothy Elizabeth
Dryden, Jane Caroline EysterEngdahl, Karl Enoch
Erickson, Allen Leonard
Evans, Milton J.
Falk, David Richard (*cum laude*)Felmley, Marion F.
Fitzgerald, Louis J.
Flanigan, Margaret Elizabeth
* Fowler, Wallace Elder
Fox, Bernard August
Fricke, Edgar Frederick
Froula, OliviaGardner, Bryson Ross
Geibel, Frederick W.
Glerup, Marius James
Gurian, Ted TeviaHadsell, Robert Lee
Hanson, Elsie Linnea
Harris, Charles Hartshorn
Hayes, Leroy E.
Hayward, William Stanley
Heath, Lawrence C.
Herbsman, Virginia
Hoff, Alice
Hone, Melville Walton
Hunt, George WillisInglis, Ralph Lamoyne
James, Flora Elizabeth
Jenks, Theodore Cook
Johnson, Harvey AlbertJoseph, Jean Butler
Jule, Walter William
Kamps, Charles AllenKondo, Tokuo
Koppang, Given Alphonso
Kwapil, RichardLarson, Richard Carl
Loncke, Madeleine R.
Lowary, Thaddeus A.McFarlane, Peter Alexander
McIlravy, Lowell Campbell
McKenzie, Kenneth D.
Martin, Bertha
Martina, John Dewey
Mason, Robert Harold
Mickelwait, Lowell Pitzer
Miller, B. Franklin
Moore, Russell Balcam
Morris, Gregory Scott
Mund, Vernon Arthur (*magna cum laude*)
Murray, Nellie
Myers, DorothyNelson, Clarence Leroy
Newbury, James VidlerOcampo, Pedro Viray
Ochs, Clyde E.
Okubo, Roco Rokuro
Orr, T. MackPeterson, William Clarence
Reed, Ruth Eileen
Rose, Jerome Joseph
Russell, Roy NickersonSackett, Percy Elzerah
Schneider, Robert J., Jr.
Schweizer, Carl Alvin
Sidell, Irving Theodore (*cum laude*)
Smith, Dorothy-Marie Burgess
Smith, Harriette Gladys
Spankie, Donald Frederick
Stone, Leslie Amos
Stout, Wesley Edward
Templeton, David Dryden
Thiele, Margarethe CarolineWarren, Charles Clair, Jr.
Weingartner, Richard Allenson
Wilder, Norman Boyd
Wood, Robert Edwin
Young, Ruth Margaret

*Died, April 28, 1928.

SCHOOL OF LAW

BACHELOR OF LAWS

August, 1927

Charleston, William M.

Mantei, Theodore

December, 1927

Dills, Leslie Harrison

June, 1928

Abel, George F.	Long, Stanley Burr
Anderson, Anton L.	Lucht, William F., Jr.
Anderson, Harold W.	Marion, Lucien Francois
Betts, Graham Kennedy, Jr.	Marsh, Shirley Reese
Brady, Bryant Denis (<i>magna cum laude</i>)	Mathis, Clinton L.
Carlson, Reuben Carl	Metcalfe, Gordon E.
Clayberg, Stephen Sylvester	Raichle, Marcus S.
Dodd, Gordon Bennett	Reilly, John Edward, Jr.
Doumit, Mitchell John	Rucker, Jasper Lincoln
Evenson, William Ellsworth (<i>cum laude</i>)	Schlosstein, Clifford F.
Falk, Ernest Thomas	Snyder, Loyal Truman Rhodes
Forrest, John K.	Southern, Vinton
Glenn, Wesley Stacey (<i>cum laude</i>)	Strong, Richard Sasnett
Harsch, Alfred Elmer (<i>cum laude</i>)	Stuntz, George Rudolph
Henke, Harry, Jr. (<i>cum laude</i>)	Swanson, Walter Vencliffe, Jr.
Ivers, Henry Thomas	Taets van Amerongen tot Woudenberg, Baron William John Anthony
King, Harold Gillingham	Weaver, Frank Parks
Kinzel, Maurice William	

LIBRARY SCHOOL

BACHELOR OF SCIENCE IN LIBRARY SCIENCE

*August, 1927*Barton, Lorna Durnford
Dorland, Drusilla

McKibben, Irene

March, 1928

Millar, Jean Malcolm

June, 1928

Binderup, Hortense	Kittell, George Henry
Bleeker, Alethea Sherbrooke	MacTavish, Isabel Grace
Burdic, Ila Mae	Martincevic, Patricia
Coale, Elizabeth Towson	O'Connor, Helen Margaret
Cohen, Rose (<i>cum laude</i>)	Patjens, Irene
Davis, Lenna Gladys	Predmore, Alice Elizabeth
Friderici, Hazel Eugenia	Putnam, Gertrude Eudora
Hartge, Lena Armstrong	Randall, Helen Jean
Jansen, Phyllis Luella	Robbins, Franc E.
Johns, Loeta Lois (<i>magna cum laude</i>)	Savage, Margaret Elizabeth
Johnson, Eloise Ruth	Shirk, Grace Anastasia
Johnston, Iris Francelle	Stone, Bessie Hazel
Jones, Vida M.	Strand, Elizabeth
	Turner, Helen Elizabeth
	Whitman, Jean Elisabeth

SCHOOL OF JOURNALISM

BACHELOR OF ARTS IN JOURNALISM

August, 1927

Kane, Margaret Marie

Wetherell, Ernest (*cum laude*)

December, 1927

Hultgrenn, Elart Fenelon
Schroeder, Marvin Leon

U'Renn, Cara Dorothy (*cum laude*)
Willard, Aileen

June, 1928

Baker, Mary Katharine
Berry, Theodore F.
Bogstad, Ruth Evangeline
Bradley, Arvid Marinus (*cum laude*)
Clearman, Louise H.
Craven, Eleanor Arnold
Hubley, Ruth

Impola, John
Mottelson, Mayer
Pickard, Ward L.
Thornton, Marion Janet (*magna cum laude*)
Whitner, Chester Lee

PROFESSIONAL DEGREES

CONFERRED, 1928

ELECTRICAL ENGINEER

Glen Harry Smith

B.S. in E.E., University of Washington, 1910

Thesis: Load Analysis and Business Forecasts for the Seattle Department of Lighting, 1910-1925

MECHANICAL ENGINEER

Walter Richard Jones

B.S. in M.E., University of Washington, 1928

Thesis: Design of Airplane Propeller

ENGINEER OF MINES

Ernest Newton Patty

B.S. in Geology and Mining, University of Washington, 1919

Thesis: The Engineering and Economic Problems Encountered in the Development of a New Coal Field in Alaska

GRADUATE DEGREES

CONFERRED, 1928

MASTER OF ARTS

Nellie Cornelia Appy (English)

B.A., Whitman College, 1924

Thesis: Three Transcendental Poets

Dorothy Frances Atkinson (English)

B.A., Vassar College, 1923

Thesis: Chaucer's Religious Satire

Frank Pierce Baird (Education)

B.S., University of Montana, 1905

Thesis: History of Education in Idaho through Territorial Days

Carl Oscar Baker (Economics)

B.B.A., University of Washington, 1921

Thesis: History of Public School Revenues and their Apportionment in California

- Otto Wathne Bardarson (Education)
B.Ed., University of Washington, 1922
Thesis: A History of Elementary and Secondary Education in Seattle
- Ivyl Constantine Barker (English)
B.A., Bethel College, 1920
B.S., Kansas State Agricultural College, 1925
Thesis: Six Short Stories for Children
- Elizabeth Holm Bondy (German)
B.A., Fairmont College, 1910
Thesis: Der Americanismus Gustav Freyssens
- Marguerite Johanna Brethorst (English)
B.A., Morningside College, 1917
Thesis: The Subject-Matter of Freshman English and Methods related thereto as shown by a Survey of Thirty-one Colleges and Universities with Registrations of over Two Thousand Students
- Nancy Kate Brodnax (Home Economics)
B.A., University of Oklahoma, 1921
Thesis: A Study of the Decoration of Costumes in the Sixteenth and Seventeenth Centuries
- Jennie Potgieter Burgess (English)
B.A., University of Iowa, 1912
Thesis: Margaret Fuller's Relation to the Women's Movement
- Mary Campbell (Education)
B.A., University of Washington, 1919
Thesis: Education of Girls in India
- Earl West Carle (History)
B.A., Broadview College, 1926
Thesis: Fashoda and the Entente Cordiale
- Joseph Cohen (Sociology)
B.A., University of Washington, 1925
Thesis: Juvenile Delinquency and the Broken Home
- Esther Josephine Converse (French)
B.A., University of Montana, 1924
Thesis: The Sources of Robert Garnier's *Antigone*
- Calvin Crumbaker (Economics)
B.S., Whitman College, 1911
Thesis: The Relation of the Panama Canal to Certain Economic Problems of Western United States
- Izora De Ette Devers (History)
B.A., University of Washington, 1924
Thesis: The Dred Scott Case
- William John Dickson (Economics)
B.A., University of Washington, 1927
Thesis: Labor in Municipal Politics: A Study of Labor's Political Policies and Activities in Seattle
- Geraldine Doheny (History)
B.A., University of Washington, 1925
Thesis: An Account of the Political and Commercial Relations of England with the Christian Kingdoms of the Spanish Peninsula at the Opening of the Hundred Years War, 1327-1340
- Lena Eldridge (Spanish)
B.A., New Mexico Normal University, 1919
Thesis: The Gracioso of Juan Ruiz de Alarcón
- Lela Marie Elledge (Education)
B.A., University of Washington, 1925
Thesis: Present Requirements for Teachers of Subnormal and Superior Children

Gertrude Catherine Ford (Education)

B.A., University of Washington, 1926
Thesis: A Study of Typewriting Errors

Maribeth Gerbel (Economics)

B.A., University of Washington, 1926
Thesis: The Attitude of Churches toward Labor

Jessie Edith Gibson (Education)

B.A., University of Idaho, 1908
Thesis: Social Values for Girls

Helen Goulard-Grauman (English)

B.A., Walla Walla College, 1920
Thesis: Architectural Principles and Ideals of John Ruskin

Muriel Lewin Guberlet (Education)

B.A., Bethany College, 1909
Thesis: Application of Objective Methods to Problems of the Literature Curriculum

Pedro Garaza Guiang (Education)

B.A., University of Washington, 1926
Thesis: An Analysis of the Major Aspects of Secondary Education in the Philippines

Alice Cable Hanson (Economics)

B.A., University of Washington, 1925
Thesis: Economic Theories of Consumption as Applied to Labor

Olaf Holen (Scandinavian)

B.A., University of Washington, 1916
Thesis: The Haugean Revival and its Place in the Norwegian Literature

Daniel Harvey Johnston (Education)

B.A., University of Washington, 1923
Thesis: A Survey of the Teaching of the Social Studies in the High Schools of the State of Washington

Maud Kane (Latin)

(Sister Mary Patrick)
B.A., St. Mary's College, 1915
Thesis: An Analysis of the Pathos of the Aeneid

Louise Valverde Kelley (Education)

B.A., University of Washington, 1926
Thesis: The Training of Music Supervisors in our State Universities

Kenneth Baumgardner Kizer (Education)

B.A., University of Washington, 1923
Thesis: Moral Education

Susumu Kobe (Economics)

B.A., University of British Columbia, 1926
Thesis: Governmental Control of Consumption in England

Herbert Satterthwaite Little (Political Science)

LL.B., University of Washington, 1923
Thesis: The Law of Reprisals with Special Treatment of the Corfu Incident

Lena Experience Littlefield (Education)

B.F.A., University of Washington, 1926
Thesis: A Determination of the Present Status of Public School Art in the Secondary Schools of the United States

Cecyl Bancroft Lovejoy (English)

B.A., University of Washington, 1924
Thesis: The Cabellian Romance

Ben Franklin Lowe (Education)

B.Ed., University of Washington, 1921
Thesis: Public School Publicity in the State of Washington

University of Washington

Sara Norris Mark (English)

B.A., University of Washington, 1911

Thesis: A Defense of Hamlin Garland as a Consistent Realist

Archibald Jennings Mather (Education)

B.A., University of Toronto, 1899

Thesis: The Educational System of New Zealand

Loren Holcombe Milliman (Journalism)

B.A., University of Washington, 1922

Thesis: The Influence of the Press of the State of Washington on the Commonwealth's Criminal Code

Bernice Starr Moore (Education)

B.A., University of Texas, 1924

Thesis: Art as a Social Agency

Helen Morrill (Psychology)

B.A., University of Washington, 1927

Thesis: Time Factors in Conditioning Finger Withdrawal

Robert Storrs Osgood (Spanish)

B.A., Grinnell College, 1894

B.D., Chicago Theological Seminary, 1898

Thesis: The Hebrew Element in the Writings of Fray Luis de Leon

Gladys Irene Pelz (Spanish)

B.A., University of Washington, 1925

Thesis: Don Pedro of Castile in History and Legend

Norman Claud Perring (History)

B.A., University of Washington, 1927

Thesis: The Political Philosophy of John Caldwell Calhoun

Mary Agnes Perry (English)

B.A., University of Washington, 1922

Thesis: Chaucer's Use of Proverbs

Mary Dayton Powell (English)

B.A., University of Washington, 1922

Thesis: Deeds of Henry the Fifth, King of England: A Translation of *Henrici Quinti Angliae Regis Gesta*

Marie Madden Power (Home Economics)

B.A., University of Kansas, 1914

Thesis: A Study of Household Operation Costs

Luther Laurence Pratt (English)

B.A., Reed College, 1918

Thesis: Some Implications of Philosophical Realism in the Novels of Theodore Dreiser

Hazel May Rennoe (Home Economics)

B.S., Columbia Teachers' College, 1925

Thesis: An Objective Test in Clothing

Arlie Margaret Salmons (Spanish)

B.A., University of Missouri, 1911

B.S. in Ed., University of Missouri, 1912

Thesis: The Madrid of Jose de Larra

Byron August Samuelson (Education)

B.A. in Ed., University of Washington, 1923

Thesis: The History and Present Status of Methods of College Entrance in the United States

Gertrude Paula Sater (French)

B.A., University of Washington, 1918

Thesis: An Examination of the Genesis and Sources of Robert Garnier's *Tragedy La Troade*

Louis Martin Schleier (Education)

B.A., State College of Washington, 1922

Thesis: Fundamental Difficulties of Beginning Teachers in Montana

Gail Walrath Smith (Education)

B.A., McKendree College, 1910

Thesis: Valuations of Stories in the American and the Cosmopolitan Magazines

Mary Eleanor Springer (Latin)
(Sister Mary Theresa of the Cross)

B.A., St. Mary's College, 1911

Thesis: Classification of Proverbs and Sententious Sayings Selected from the Plays of Plautus and Terence

Edgar Irving Stewart (History)

B.A. in Ed., University of Washington, 1923

Thesis: Northern Prison Camps of the Civil War

Ralph Ewing Storey (Education)

B.A., Brown University, 1899

Thesis: A Study of the Development of Teacher Rating: its Professional Significance and Implications

Lillian Bryce Tift (History)

B.Ed., University of Washington, 1918

Thesis: The Necessity and Means of Financing the American Revolutionary Army

Howard Emerson Timbers (Education)

B.A., University of Southern California, 1925

Thesis: A Study of Some of the Factors Determining the Pupils' Attitude toward Mathematics in the Secondary Schools

Lena Lucile Tucker (English)

B.A., University of Washington, 1904

B.S. in L.S., University of Washington, 1925

Thesis: A Bibliography of Fifteenth Century Literature

Walter Morton Underhill (History)

B.A., University of Washington, 1924

Thesis: William de la Pole; King's Merchant

Louise Morse Dodge Whitham (History)

Ph.B., University of Chicago, 1921

Thesis: Party Alignment in Colonial New York

Louis Eugene Williams (Education)

B.A., Seattle Pacific College, 1927

Thesis: Laymen versus Experts

Clotilde Marconnier Wilson (French)

B.A., University of Washington, 1923

Thesis: The Theme of Sophonisba as Treated by Corneille and Voltaire and their Romantic Predecessors

Karl Albert Windesheim (Economics)

B.A., Lawrence College, 1923

Thesis: Economic Aspects of Air Transportation

Asa A. Wood (Education)

B.A. in Ed., Iowa State Teachers' College, 1919

Thesis: The Relative Value of Oral and Written Arithmetic

Katharine Dally Woolston (Sociology)

B.A., University of Washington, 1922

Thesis: Japanese Standard of Living in Seattle

Harper Chapman Wren (History)

B.A., University of Washington, 1923

Thesis: Modern Literature on Magna Carta

MASTER OF SCIENCE

Luther Clare Altman (Zoology)

B.S. in Ed., University of Washington, 1923

Thesis: A New Species of Enchytraeidae, *Enchytraeus Marinus*

Rebecca Elizabeth Banks (Zoology)

B.S., University of Washington, 1926

Thesis: An Ecological Study of the Animal Life of Freshman Basin, University of Washington

Clifford Woodard Duncan (Chemistry)

B.S. in Ch.E., Oregon Agricultural College, 1923

Thesis: The Effect of Some Electrolytes upon the Stability of Emulsions

Lacey Heintzman Evans (Chemistry)

B.S., University of Washington, 1925

Thesis: The Absorption of Iodine from Dilute Aqueous Solution and its Possible Relation to Goiter

William Kenneth Ferrier (Chemistry)

B.S. in Ch.E., Oregon Agricultural College, 1923

Thesis: The Effect of Some Electrolytes upon the Stability of Emulsions

Julia Elizabeth Goodsell (Zoology)

B.S., University of Washington, 1926

Thesis: A Study of the Effect of Lugol's Solution on the Thyroid Gland of the Guinea Pig

Leland Stanford Harris (Bacteriology)

B.S., University of Washington, 1926

Thesis: Bacteriological Methods of Testing Ice Cream

Catherine Ann Hughes (Bacteriology)

(Sister Mary Frances Clare)

B.A., St. Mary's College, 1908

Thesis: Symbiotic Relations of Molds, Yeasts and Bacteria in Fruit Decay

Warner Melvin Karshner (Bacteriology)

B.S., University of Washington, 1898

M.D., Northwestern University, 1904

Thesis: Hemoagglutination

Luella Latham Kretchmar (Chemistry)

B.S., University of Washington, 1925

Thesis: Analysis of Mixtures of Calcium Phosphates

Bernard Vaughan Lamb (Chemistry)

B.S., Gonzaga University, 1925

Thesis: A Study of the Antirachitic Vitamin Content of Salmon Body Oils

Olive Gladys Lathers (Home Economics)

B.A., Reed College, 1919

Thesis: Health Education in the High School

John Maurice McAneny (Chemistry)

B.S. in Ch.E., University of Washington, 1927

Thesis: Analysis and Fusibility of Ash from Certain Washington Coals

Jessie Elizabeth Neville (Mathematics)

B.A., University of Washington, 1926

Thesis: Two Plane Curves in Point Correspondence

Robert Ingersoll Roth (Geology)

B.S., University of Washington, 1925

Thesis: Geology of the Central Part of the Mount Vernon Quadrangle

Norwood Korter Schaffer (Chemistry)

B.S., University of Washington, 1926

Thesis: The Influence of Acids and Alkalies on the Inhibitive Effect of Gelatin upon the Catalytic Decomposition of Hydrogen Peroxide by Colloidal Platinum

Thomas Francis Shea (Chemistry)

B.S., Massachusetts Agricultural College, 1923

Thesis: A Study of the Effects of Electrolytes on the Stability and Inversions of Emulsions

Vera Harriet Stedman (Botany)

B.S., University of Washington, 1925

Thesis: A Cultural Study of Two Species of Fungi Producing Bulbils

Ruth Evelyn Swingle (Bacteriology)

B.S., Montana State College, 1926

Thesis: Organisms Causing Spoilage of Pickled Herring

Andrew Allen Weymouth (Geology)

B.S., University of Washington, 1926

Thesis: The Cretaceous Stratigraphy and Paleontology of Sucia Island, San Juan Group, Washington

Dael Lee Wolfe (Psychology)

B.S., University of Washington, 1927

Thesis: The Relation of Manual Habits to the Organization of a Linguistic System

MASTER OF SCIENCE IN HOME ECONOMICS

Anne Columbia Platt

B.S., University of Washington, 1917

Thesis: Health Education in Universities and Colleges of the United States

MASTER OF FINE ARTS

Victorio Cecelia Edades

B.F.A., University of Washington, 1925

Thesis: Mural Decoration for the Art Department, University of Washington

John Ely

B.F.A., University of Washington, 1921

Thesis: Paintings on Exhibit at the Henry Art Gallery, University of Washington

Frances Ferry

B.F.A., University of Washington, 1926

Thesis: Mural Decoration for the Art Department, University of Washington

MASTER OF SCIENCE IN CERAMIC ENGINEERING

Vance Samuel Cartwright

B.S. in Ch.E., University of Washington, 1926

Thesis: Methods of Dewatering Clay Suspensions

Howard Harry Mansur

B.S. in Ch.E., University of Washington, 1926

Thesis: The Heat Balances of Some Ceramic Kilns in the Pacific Northwest

MASTER OF FORESTRY

Carl Salvatore Fery

B.S. in F., University of Michigan, 1924

Thesis: Timber Appraisal in the Douglas Fir Region .

Deshapande Narasimha Moorty Rao

B.A., Central College, Bangalore, 1916

P.F.S., Forest Research Institute, Dehra Dun, India, 1919

Thesis: Logging Methods in the Pacific Coast States and the Inland Empire and their Applicability to the Forests of the State of Mysore, India

University of Washington

MASTER OF SCIENCE IN PHARMACY

Marion Georgia Brimston

B.S. in Pharm., University of Washington, 1926
 Thesis: Some Reactions of Nitrosyl Chloride and Pharmaceuticals

Clementine Claire Evans

B.S. in Pharm., University of Washington, 1927
 Thesis: A Study of Atropa Belladonna and its Methods of Assay

Louis Fischer

B.S. in Pharm., University of Washington, 1926
 Thesis: Polypodium Occidentale and Comparison with Glycyrrhiza Glabra

Ruby Sato Hirose

B.S. in Pharm., University of Washington, 1927
 Thesis: Pharmaceutical Study of Hydrastis Canadensis

Leon Wright Richards

B.S. in Pharm., University of Washington, 1926
 Thesis: Ceanothus Velutinus

MASTER OF BUSINESS ADMINISTRATION

James Aitken

B.S., University of British Columbia, 1926
 Thesis: An Examination of Canadian Banking

Tung Chi Chu

B.B.A., University of Washington, 1927
 Thesis: The Labour Movement in China

Ruth Aeneas Grant

B.B.A., University of Washington, 1925
 Thesis: The Organization of a Course for Assistant Buyers in a Department Store

Verner Wilhelm Johnson

B.A., University of North Dakota, 1923
 Thesis: Accumulation and Uses of Accounting Data

Curtis Kelley

B.A., University of Washington, 1924
 Thesis: The Economic Problems Involved in the Flotation of Foreign Loans in the United States

Charles John Miller

B.B.A., University of Washington, 1922
 Thesis: A Statistical History of Manufacturing in the State of Washington from 1880 to 1923

Flora Louise Nadeau

B.A., University of Michigan, 1911
 Thesis: A Brief History of Accountancy

Ruby Rosenkranz Skeen

B.A., Willamette University, 1923
 Thesis: Modern Budgetary Procedure

Myrtle Minshall Stone

B.A., State College of Washington, 1923
 Thesis: Concepts of a Market as Developed in the Pittsburgh Plus Case

Degrees Conferred 1928

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DOCTOR OF PHILOSOPHY

Grace Baumgartner

B.M., University of Washington, 1923
M.A., University of Washington, 1925

Thesis: Rent as Cost and Rent as Surplus in Merchandising in Seattle

Arthur Sydney Beardsley

LL.B., University of Washington, 1918
B.S. in L.S., University of Washington, 1924
M.A., University of Washington, 1925

Thesis: An Introduction to the Study of Legal Bibliography and Research,
a Laboratory Method

Thomas William Bibb

B.A., William Jewell College, 1908
M.A., University of Washington, 1927

Thesis: History of Early Common School Education in Washington

Emmett Theodore Bodenberg

B.S., Capital University, 1925
M.S., Ohio State University, 1926

Thesis: Mineral Salt Transfer in Deciduous and Coniferous Woody Plants

Max Donald Cornu

LL.B., University of Washington, 1922
M.A., University of Washington, 1926

Thesis: A Biography and Bibliography of Owen Feltham with Some
Notes on His Poems and Letters

Arne Sigurd Jensen

B.A., University of Washington, 1919
M.A., University of Washington, 1923
Thesis: The Rural Schools of Norway

Arthur Rudolph Jerbert

B.S., University of Washington, 1916
M.S., University of Washington, 1923

Thesis: Projective Differential Geometry of a System of Linnar Differential
Equations of the First Order

James Richard Lorah

B.S. in Ch.E., University of Washington, 1921
M.S., University of Washington, 1925

Thesis: A Basic Phosphate of Calcium and of Strontium and the Systems
(acid range) $\text{SrO}-\text{P}_2\text{O}_5-\text{H}_2\text{O}$ and $\text{BaO}-\text{P}_2\text{O}_5-\text{H}_2\text{O}$

Roy Davison McLellan

B.A., University of Washington, 1915
M.S., University of Washington, 1922

Thesis: The Geology of the San Juan Islands

Paul Jahu Orr

A.B., McMinnville College, 1906
B.S., College of Puget Sound, 1907

Thesis: Transportation of Public School Children in the United States

Lurline Violet Simpson

B.A., University of Washington, 1920
M.A., University of Washington, 1923

Thesis: Borrowings of the Pleiade from Classical and Medieval Didactic Treatises

Blanchard Perley Steeves

B.A., Dalhousie University, 1898
M.A., University of Washington, 1925

Thesis: Status of Modern Foreign Languages in the American High School and College

Wallace Theodore Wait

B.S., Whitworth College, 1916
M.A., University of Washington, 1926

Thesis: An Examination and Critical Evaluation of the Elements of Geometry
Teaching in the Secondary Schools

University of Washington

Madge Watson Wilkinson

B.A., University of Washington, 1918

M.A., University of Washington, 1920

Thesis: Lateral Dominance in Motor Response

William Charles Eade Wilson

B.A., University of Montana, 1922

M.A., University of Washington, 1925

Thesis: The Historical Element in the Novels of Blest Gana

NORMAL DIPLOMAS—1928

UNIVERSITY FIVE-YEAR NORMAL DIPLOMA

August, 1927

- | | |
|--|---|
| Aalbu, Dorothy | Eidal, Otto Clarence |
| Adams, Julius Gordon | Elder, Raymond Washington |
| Andersen, Agnes Ruth | Farrar, Mayme |
| Anderson, Louise May | Finseth, Karen Dorothy |
| Arnold, Georgia Vera | Flavin, Ruth Anne |
| Atwood, Gertrude Mae Guild | Floed, Frances Margaret |
| Ayers, Ethel Florence | Forster, Crescentia
(Sister Mary Clementine) |
| Bartlett, Louise Isobel | Fry, Iva Margaret |
| Bassage, Harold Edwin | Fuller, Frances Olive |
| Beegle, Burton Linton | Furgeson, Leora V. |
| Blackenburg, Howard | |
| Bloomer, Cecilia
(Sister Elizabeth Clare) | Geer, Willard |
| Bondy, Elizabeth M. Holm | Glasgow, Marian Joyce |
| Brown, Jane | Godsey, Bess Helsel |
| Burns, Anna E. | Gorham, Helen Margaret |
| Burpee, Margaret P. | Grant, Jeanie Marion |
| Button, Arthur Oscar | Grebe, Enid Anita |
| | Green, Kathleen Marian |
| Carle, Earl West | Harrison, Aldine Madele |
| Clemmer, Ruth | Hawkins, Hazel Marion |
| Cole, Sylpha Josephine | Himes, Velma Violette |
| Cummings, Blanche Mary | Hine, Marie |
| | Howe, Ramel Elaine |
| Dabney, Elmer Stratton | Hughes, Martha Ellen |
| Davies, Anne | Hurd, Guy Winfield |
| Dickson, Belle Lucille | Hutton, Evelyn Ida |
| Dittmer, Clarence Clifford | |
| Dodson, Jesse Moody | Ihle, Thilda |
| | |
| Durrwachter, Irma Martha | Johnston, Margaret Edna |
| Easum, Ruth Lucile | Johnston, Marjorie D. |
| Egbers, Mark W. | Jones, Hannah |

Jones, Leola Grace	Pearson, Anna Catherine
Keene, Mildred Yockey	Pedersen, Thora H.
Kelly, Genevieve	Pool, Stephen C.
(Sister Esther Mary)	Purves, Neil H.
Kessler, George	Reed, Elizabeth Margaret
Knight, Rebecca Scott	Rhodes, Leonard
Le Neve, Nina Faith	Robison B. B.
Loneragan, Thyra Marie	Rothaus, Marie Theresa
McDonald, Cecelia Marie	(Sister Mary Rose de Lima)
McGuinness, Charles D.	(O.S.D.)
McKenzie, Earl Lincoln	Russell, Lelia M.
Macdonald, Aristelle	Scanzon, Anna Virginia
Madison, Lillian	Scott, Elsie Margaret
Mehner, Pauline Esther	Sherman, Winifred Claire
Miller, Amalia Frances	Shollenberger, J. Wayne
Mitchell, Perry Howard	Smith, Gail Walrath
Monteski, Gertrude Veronica	Stone, Ethel Viola
Moore, John H.	Stowell, Ernest Paul
Morgan, Coral	Sullivan, Frankie B.
Morgan, Marjorie Lillian	Timbers, Howard Emerson
Mullen, Loda Helen	Van Hoomissen, Anna Maria
Murton, M. Ethelwynne	(Sister Mary Veronica of Milan)
Myers, Carlyle Graves	Van Tilborg, Elizabeth Dorciane
Near, Maxine	Wahl, Leonora Marie
North, Stella May	Washington, Lillian M.
O'Brien, Elizabeth Marie	Weymouth, Faye Caurice
Odegaard, Leonard Sylvester	Whillans, Ellen
Odgers, George Allen	White, Rosalind F.
Oleson, Mabel Helena	Whittaker, Jack Ernest
Oliver, Egbert S.	Wiley, Frances Evans
Olson, Avary Herman	Wilson, Abe Y.
Olson, Gladys Judith	Wren, Harper Chapman
Painter, Esther Elvira	Wynstra, Stanley S.
Pannell, Shirley Gwendolyn	Young, Catherine Augusta

December, 1927

Andrews, Harriett M.	Neilsen, Hazel Emma
Attebery, Hester Josephine	Paysse, Doris
Barnett, Mack F.	Pearson, Mabel Didriksen
Bogert, Madeline Vanden	Posey, Naomi-Mae
Bolles, Thomas Darley	Ryan, Mary
Brook, Alice Lee	(Sister Gabriel Ryan)
Freeman, Trunette Aust	Scoville, June Idyline
Garden, Kathryn Louise	Stout, Maxine
Garner, Louella	Thune, Alta Lillian
Garrott, Jean	Van Stralen, Francis John
Hyland, Mary Adelaide	Van Zante, Jean
Kwapil, Dorothy Louise	Wallace, Marjorie
Miller, Eloise	Whaley, Milo Ballard
Neale, Mary Ellen	White, Lorna Carolyn

March, 1928

Cederberg Theodore	Elliott, Stanley Minto
Cole, Marjorie Edith	Hanley, Mary Veronica
Dishnow, P. Sylvia	Henry, Florence
Dusenberry, Inez Mae	Hurlburt, Frances Myrtle
Eiffert, Opal Jean	Hurley, Coila Pearl

Hynes, Philomena Lillian
 Kleinlein, Esther Marie
 Leach, John Harvey
 Miller, Carrie Lowry
 Nichols, Jane
 Nissley, Maria Anne
 O'Connell, Caroline
 (Sister Margaret of St. Dominic)
 O'Hara, William James

Parker, Alfred
 Riste, Victor Emerson
 Schusman, Dorothy Jean
 Shannon, Henry Alvieus
 Skagen, Cora Jean
 Smith, Thomas S.
 Stuber, Esther Elouise
 West, Martha Alice

June, 1928

Adamson, Anna Robinson
 Albin, Vera G.
 Allez, George Clare
 Anderson, Esculene
 Anderson, Lloyd A.
 Anderson, Lucile
 Anderson, Ruth Agda
 Archibald, Nina Margaret
 Arneson, Gladys Amelia
 Ashley, Wanda Josephine
 Avery, Dorothea Patricia

Baker, Dorothy
 Barc, Margaret Hope
 Barker, Edna Thiele
 Barkley, Dorothy True
 Barnhart, Margaret Helen
 Beckwith, Frances Kay
 Bell, Hazel Lamar
 Berlin, Helen Marie
 Bidlake, Florence Harriet
 Blauert, Paul Henry
 Bloxom, Virginia
 Bogstad, Ruth Evangeline
 Botsford, James Lawrence
 Bower, Marie Patterson
 Boyd, Helen
 Boyd, Jennette Dorothy
 Brandmeier, Blanche Wilhelmina
 Breakey, Glenn Maurice
 Brickert, Josephine E.
 Brisbin, Wilma
 Bromberg, Bernice
 Brown, Leela May
 Brownell, Ruth
 Bungay, Ellen Louise
 Bunge, Winifred Mathilde

Calder, Mary Etta
 Callender, Marguerite Weston
 Cardwell, Elizabeth Katharine
 Carlson, Carl R.
 Cartano, Margaret C.
 Carter, Nellie Cordelia
 Case, Katherine Marie

Casey, Mildred Laura
 Chapman, Virginia
 Chapple, Guernsey Phillips
 Chatterton, Katherine W.
 Chester, Helen Elizabeth
 Churchward, Philip Edson
 Chute, Esther H.
 Clark, Evelyn Gordon
 Cook, Marjorie Jane
 Copenhaver, Edith Lucille
 Cowling, Merle Winnifred
 Craig, Genevieve Adelaide
 Craven, Eleanor Arnold
 Crowley, Mary Louise
 Culver, Mary L.
 Cutting, Judson Miller

Darr, Dorothy
 Dean, Florence Myrah
 Dedrick, Grace
 DeFreest, Grace Helene
 DeGabriele, Eugene Marius
 Derrah, Edward A.
 de Soto, Alexander Phillips
 DeWitt, Ruth Evelyn
 DeYarmon, Ada L.
 Dickinson, Lawton William
 Dillon, Sue
 Dishnow, Jay V.
 Dix, Florence
 Drew, Demerice Ebbley
 Dudley, Dorothy Hale
 Dunham, Earline Viola

Eastwood, Emily Louise
 Ehrhardt, Dorothy Chace
 Eide, Gudrun Cecelia
 Eiffert, Dorothy Fae
 Embree, Mary John
 Endres, Teresa
 Ennis, Mercedes Elouise
 Evans, Clementine Claire
 Fairbanks, Eugenia
 Field, Mary Louise
 Fisher, Grace D. Hoover

Fisken, Ruth Kerr
 FitzGerald, Florence Hortense
 FitzGerald, John Loyola
 Fjarlie, Aagot Jeannette
 Fletebo, Helga
 Forbes, Evelyn Gertrude
 Franke, Elizabeth Louise
 Freund, Julia Clara
 Fricke, Edgar Frederick
 Frisbie, Chester Calvin

Garrecht, Caroline Teresa
 Gates, Alice Elizabeth
 George, Evaline Beryl
 Gillespie, Margaret R.
 Glenn, Harry Calvin
 Goettling, Gladys Whitney
 Goldblatt, Helen Bertha
 Good, Lydia May
 Gorow, Frank Fletcher
 Gowen, Sylvia Mary
 Graham, Elizabeth Emily
 Graves, Virginia Sheffield
 Gray, Rose
 Greenwood, Lucille
 Griggs, Jay Howard
 Guyer, Dorothea Pemberton

Hagen, Evelyn
 Hall, Alvin Morris
 Hall, Margaret Olive
 Hansen, Inga Marjory
 Hanson, Elsie Linnea
 Harrison, Helen Barlow
 Harsch, Orleana Frances
 Hartley, Zelma Jeanne
 Hartney, Margaret Ruth
 Hastings, Jessie Lou
 Hatch, Charles Edward
 Hayes, Margaret Mary
 Head, Pauline
 Hearty, Aileen Louise
 Hedges, Elizabeth M.
 Hemphill, Elizabeth
 Hepperle, Charlotte
 Herren, Naomi Elizabeth
 Higgins, Myra Marie
 Hill, Martha Emily
 Hillyer, Theo Frances
 Hoff, Alice
 Hoska, Helen Rogene
 Howell, Iras Claudia
 Hubbell, Myra-Leslie
 Huff, Elizabeth Naomi
 Hunt, Frances Clarke

Jacobs, Maxine Rosalie
 Jennings, Elizabeth
 Jensen, Lucie Eleanor
 Jessen, Christine
 Jewett, Elsie Kristine
 Johnsen, Pauline Bernice

Johnson, Alida Ruth
 Johnson, Anne Irene
 Johnson, Elizabeth Harriette
 Joseph, Jean Butler

Kelleher, Marion Julia
 Kenyon, Ethel Mae
 Kenyon, Juanita
 King, Esther
 Knight, Annalou
 Knight Homer Tibbetts
 Knutson, Marie Louise
 Koth, Everett Francis
 Kramer, Ferdinand
 Kroetch, Gertrude Claire

Lansdowne, Elizabeth
 Lauer, Edna W.
 LeBlanc, Ethel Mildred
 Lee, Burling Vincent
 Lee, Evelyn Rita
 Lewis, Hannah Whiting
 Libbee, Frances Alice
 Lindquist, Irene
 Ludington, Kathryn Lee
 Lund, Esther Ragnhild
 Lunn, Lois Josephine
 Lynch, Elizabeth

McAnally, Carrie
 McCartney, Francine Lee
 McDonald, Georgene
 McGill, Ruth
 McKay, Elizabeth Margaret
 McLean, Margery Elizabeth
 McMaster, Frances
 March, Martha Jane
 Martin, Bertha
 Martin, Robert Ray
 Meeks, Ruby
 Melder, Frederick Eugene
 Miller, Helen Edythe
 Milton, Fletcher Roberts
 Milward, Doris Lillian
 Mitchell, John George
 Monroe, John R.
 Montfort, Mary Leslie
 Moore, Burta Louise
 Morris, Clydene Lauretta
 Morry, Lucile Katherine
 Murray, Nellie
 Myers, Dorothy
 Myhre, Clara Margaret

Nahas, Emmeleine Edith
 Nelson, Helen Clare
 Ness, Conrad Christian
 Newman, Ruth Levens

Norie, Martha Gertrude	Smith, Dorothy Louise
O'Keane, Frances Eleanor	Smith, Frances Elaine
Oliver, Marguerite Josephine	Steed, Mable Ann
O'Mahony, Mary Helene	Stewart, Una Andrew
Opstad, Edwin R.	Stidd, Ruth Margaret
Ouren, George Frederick	Stoll, Lorena Dorothy
Packwood, Ruth Ward	Stone, Ida Sue
Parr, Katherine Eugenia	Swan, Clarice
Parrington, Louise Wrathal	Swartz, Fanny Wintler
Pearson, Mabel Valentine	Tainter, Frances Miller
Pendleton, Dorothy Iris	Taylor, Kyle Eldon
Petersen, Alma F.	Terwilliger, Beulah May
Peterson, Anabel	Tesack, Kathryn Elizabeth
Peterson, Arleen May	Thiele, Margarethe Caroline
Polson, Genevieve Corine	Thomas, Ferne Agnes
Poole, Abigail Beatrice	Torney, John Alfred, Jr.
Porter, Helen Annah	Travis, Ira Merle
Potter, Helen Agnes	Tucker, Margaret
Potter, Ruth Antoinette	Underwood, Irma Victoria
Raban, Adelyne F.	Vandercook, Esther
Ratliff, Coralie Esther	Verney, Louise Estelle Summers
Reed, Ruth Eileen	Wall, Kathlene Darden
Reichert, Marguerite Catherine	Walsh, Inez Josephine
Richardson, Mary Joyce	Walsh, Mildred Ursula
Riley, Mary Elizabeth	Waltz, Margaret Elizabeth
Rohrbough, Wanda Marie	Wang, Laura K.
Rose, Jean Margery	Warde, Gertrude Elizabeth
Rose, Julia Florence	Watt, Phoebe
Rossman, Kathryn Jeanette	Weisberg, Hildegarde
Rousch, Minnie Aubrey	Whiteleather, Hazel Glenne
Ryan, Grace Henrietta	Whitnell, Helen Margery
Saunders, Virginia	Wilder, Norman Boyd
Savage, Anne Elizabeth	Willer, Sonia June
Scheitlin, Frieda	Williams, J. Aloysius
Schunke, Gustave Bernard	Williams, L. Eugene
Scott, Sara	Wilson, Evelyn Minnie
Sears, Edith Katherine	Wolz, Elise Amalie
Semb, Balwen Arthur	Wood, Edna Maurine
Shaw, Marian Estelle	Wood, Hazel Frances
Shepard, Evelyn Elizabeth	Wooden, Retta Elberta
Sherman, George Witter	Woodin, Vernetta Diadama
Shipley, Dorothy	Woodworth, Alice Anne
Siderfin, Dorothy Gwendolyn	Wright, Miriam Frances
Skalley, Kathleen	Wright, Paul Wernitch
Smith, Adelia Louise	Yeck, Lois E.
Smith, Alverna Rowena	Zeeb, Kathryn Ardath

CERTIFICATE OF PROFESSIONAL TRAINING IN EDUCATION

August, 1927

Appleton, C. Floyd
Glanville, Arthur Tennyson

Mather, Archibald Jennings
Monsen, Hildur Stahrfooss

June, 1928

Dawson, John Cecil
Jorgensen, Erna Martha
Morrison, D. Grant
Morrison, Marjorie Elizabeth

Savage, Audrey Christene Helene
Takai, Sumi-ko
Wood, Laura-Linda Falconer

UNIVERSITY LIFE DIPLOMA

August, 1927

Allen, Doris Martha
 Anderson, Muriel C.
 Anderson, Olga M.
 Anderson, Pearl Adella
 Bingham, Blanche Irene
 Blanchard, Elizabeth Estelle
 Boggs, Thelma Viola
 Bonnett, Howbert Bainter
 Bowman, Edna Elizabeth
 Buchanan, Lorna May
 Bush, Elizabeth Pauline
 Carmichael, Ruth Pearce
 Carr, Howard Maynard
 Case, E. Nydia
 Clifton, Mary Evelyn
 Christman, Martha E.
 Crofoot, Mentha Lucina
 Davis, Paul A.
 Davis, Ray Nathan
 Dekker, Kate
 Devers, Izora De Ette
 Easton, Inez
 Edwards, Lucile Hyndman
 Elledge, Gladys Pearl
 Elledge, Lela Marie
 Erickson, Sylvia Patricia
 Farrar, Myrtle I.
 Finn, Mary
 (Sister Mary Josephine)
 Foster, Dorothy Vaughan
 French, Hazel
 Furgeson, Paul F.
 Gerritt, Harriet Ina
 Goodrich, Haven G.
 Hagerty, Nellie
 Hall, Vesper Trevor
 Hamilton, Laura Hoover
 Hammond, Allen Odell
 Hanson, Esther Annette
 Hartman, Claris Hazen
 Hatlen, Charles Bernard
 Hill, Glen Gordon
 Hoffland, Henry Harrison
 Huston, Jessie Victoria
 Jerome, Vincent Barnes
 Johnson, Myrtle Dorothy
 Johnson, Venus June
 Kelley, Curtis
 Lammers, Frieda
 Lindsay, Mazie Palmer
 McCarty, Marguerite Helen
 Macomber, Leone Faris McBride
 Mahaffey, Audley Fleming
 Maus, Mildred Palmer
 Miner, Grace Edith
 Nash, L. Catherine
 (Sister Mary Edwardine)
 Nelson, Andrew Nathaniel
 Nelson, Esther Olive
 Owen, Nellie McCall
 Pennell, Geneva Estora
 Perry, Mary Agnes
 Pickrell, Evelyn Ann
 Potts, Theresa Ann
 (Sister Mary Lourdina)
 Raymond, Ethel Gertrude
 Remley, Miriam
 Ridley, Elsie Waddingham
 Rollinger, Dorothy
 (Sister Mary Josepha)
 Russell, Pearl Elizabeth
 Sadler, Estella Jackson
 Satre, Alice
 Selgelid, Orville J.
 Shaw, Anna Belle
 Shaw, Gretchen Adella
 Shultz, Celia Barbara
 Sielk, William Henry
 Silvers, Josephine Lois
 Sim, Ida Grace
 Smith, Ethel Beryl
 Stickney, Amy Eunice
 Stone, Lucia May
 Stowasser, Frances Marie
 Sullivan, Nellie
 (Sister Mary Louise)
 Swanson, Florence Lillian
 Thayer, Jean Ellen
 Turner, Cecilia Helen
 Turner, Mary
 Tuttle, Marian E.
 Underhill, Walter Morton
 Van Houten, Lois
 Waldo, Josephine A.
 Walsh, Grace Ann
 (Sister Mary Michael)
 Weage, Mary De Ella
 Westervelt, Howard Wilson
 Wolf, Katherine C.
 Wright, Jack Willis
 Wright, Leota Sadie

December, 1927

Curtiss, Verne Elizabeth
 Dalgity, Jean V.
 Hassenmiller, Kenneth Lyndon
 Hoag, Ruth Gilberta

McLain, Ada Esco
 Olson, Olaf Ebert
 Rummel, Edith E.
 Werner, Winnifred

March, 1928

Barlow, Marie S.
 Bolman, James
 Brown, Marie J. Evans
 Bullock, Cecil Frank
 Chisholm, Dorothy M.
 Coke, Martha Evelyne
 Daubenspeck, Marion Henderson
 Harrison, Mae
 Keilholtz, Ruth W.
 King, Dorothy

Livingston, Louis Smith
 MacDonald, Gladys Eora
 Oldfield, Alice A. Dominica
 (Sister Mary Dolores)
 Olsen, Esther Olinda
 Peters, Henry William
 Russell, Helen Madden
 Selby, Kenneth Edgerton
 Valleau, Verna
 Van Gilder, Florence Myrtle

June, 1928

Anderson, Alma Carolyn
 Barnes, Frances Jane
 Biggs, Mary Catherine
 Bolt, Emma (Sister M. Leonella)
 Byrd, Evelyn L.
 Campbell, Maurine Prescott
 Campbell, Robert Andrew
 Cook, Faustine Douglas
 Davies, Anne
 Erickson, Elisabeth Evelyn
 Forrester, Louise D.
 Gorrell, Winifred Genevieve
 Grebe, Louisa Edith
 Hansen, Bert Benjamin
 Hazen, Kathryn Amelia
 Hiersch, Wilhelmina A.
 Hodges, Mable Emma
 Koenig, John
 Kraus, Ada Maud
 Leaf, Alice
 Lucas, Helen Mary

Lynch, Minnie Jane Watkins
 McCaig, Grace Ralston
 Miller, Charlotte Elizabeth
 Miner, Eva Lee
 Percival, Dorothy Louise
 Peterson, Georgia Nicholson
 Phillips, Dorothy Myers
 Robertson, Sadie MacDonald
 Rucker, Gladys Louise
 Sanders, Carrie
 Schertel, Max
 Shelton, Arthur Loring
 Stewart, Edgar I.
 Storey, M. Eugenia
 Swanson, Ruby F.
 Thomas, Roscoe Gillespie
 Tibbits, Erva Lillian
 Udden, Esther Dorothy
 Van Orsdall, Otie Pearl
 Weythman, Ruth

CERTIFICATE IN PUBLIC HEALTH NURSING

August, 1927

Brown, Edith Lucille
McKay, Mary E.

Richman, Ethel Hester
Wicke, Mary V.

December, 1927

Beckley, A. Verna
Brunken, Katherine Adolene
Carlson, Anna E.
Dubé, Emma B.
Glover, Augusta Suson
Harris, Irene Louise
Le Riche, Irma Scott

Nelson, Nora V.
Nichols, Iva V.
Seals, Meda Beatrice
Smale, Myrtle R.
Thon, Martha
White, Helen Morrison

March, 1928

Haugen, Hilda

June, 1928

Charron, Laura
Fraser, Florence
Fuller, Fern Beimus
Gupwell, Edwina May
Hall, Lura Florence
Koerner, Marsa Riddell

McFadgen, Ellen
Robitaille, Eva
Seymour, Winifred
Storme, Illa McPherson
Tiber, Bertha Margaret

FELLOWSHIPS, SCHOLARSHIPS AND PRIZES

JUNE 11, 1928

THE LORETTA DENNY FELLOWSHIPS

Herbert Ellsworth Childs (English)
B.A., Oberlin College, 1926

John Liska (Physics)
B.A., Ripon College, 1928

Theodore William Evans (Chemistry)
B.S., College of Puget Sound, 1927

Alternates

J. Raymond Cluck (Philosophy)
B.A., University of Washington, 1928

Julius Peter Jaeger (English)
B.A., Spokane University, 1918
M.A., University of Washington, 1926

James Lawrence Botsford (Mathematics)
B.A., University of Washington, 1928

THE ARTHUR A. DENNY FELLOWSHIPS

Genevieve Georgiana Bale (History)
B.A. in Ed., University of Washington, 1927

University of Washington

Melvin Miller Rader (English)

B.A., University of Washington, 1925

M.A., University of Washington, 1927

Abigail Beatrice Poole (Pharmacy)

B.S. in Pharm., University of Washington, 1928

Walter Allen Nicholson (Mining Engineering)

B.S. in Ch.E., University of Washington, 1928

(For 1927-1928)

Leo Alexander Carter (Civil Engineering)

B.S. in C.E., University of Washington, 1928

(For 1928-1929)

William Theodore Wright (Civil Engineering)

B.S. in C.E., University of Washington, 1928

Not yet awarded in Education

FELLOWSHIPS IN THE COLLEGE OF MINES AND THE NORTHWEST EXPERIMENT
STATION, UNITED STATES BUREAU OF MINES

(For 1927-1928)

Vance Samuel Cartwright (Ceramics)

B.S. in Ch.E., University of Washington, 1926

Howard Harry Mansur (Ceramics)

B.S. in Ch.E., University of Washington, 1926

Lewis Clarke Wood (Metallurgy)

B.S. in Ch.E., University of Washington, 1927

(For 1928-1929)

Howard Smith Davis (Ceramics)

B.S. in Min.E., Pennsylvania State College, 1925

M.S. in Min.E., University of Washington, 1927

Italo Peter Crivelenti (Mining)

Ch.E., Polytechnic Institute of Brooklyn, N.Y., 1923

THE DUPONT FELLOWSHIP

Victor Elliott Wellman

THE BON MARCHE INDUSTRIAL FELLOWSHIP

Lillian Imrie (1927-1928)

THE EFFIE I. RAITT RESEARCH FELLOWSHIP IN NUTRITION

Lucile Streator

COLUMBIA UNIVERSITY FELLOWSHIP IN MINING ENGINEERING AND CHEMISTRY

Charles Alexander Porter

THE NAKATA FELLOWSHIP IN ORIENTAL STUDIES

Marjorie Frances Thole

THE SKAGIT VALLEY GOLDENSEAL FARM RESEARCH FELLOWSHIP
IN PHARMACY

Paul Alfred Monroe

University of Washington

THE JUDGE ALFRED BATTLE PRIZE IN PUBLIC SPEAKING AND DEBATE
Ciel Evan Georgetta Charles Reddell Strother

THE FRATERNAL ORDER OF EAGLES PRIZES IN EXTEMPORE SPEAKING
Ciel Evan Georgetta J. Raymond Cluck
Charles Reddell Strother

THE CARKEEK PRIZE IN LAW
Alfred Elmer Harsch

THE HELENE BOETZKES PRIZE IN GERMAN
Max Schertel

THE WASHINGTON MUTUAL SAVINGS BANK ESSAY PRIZE IN BUSINESS
ADMINISTRATION
Vernon Arthur Mund Robert Julius Schneider
Ludwig Schreuder

THE CHARLES H. BEBB PRIZES IN ARCHITECTURE
George Katsutoshi Nakashima Robert John Stanley Paterson
Harry Kirke Wolfe

THE GLADDING-McBEAN TERRA COTTA COMPANY PRIZES
Stanley Carl Brogren George Katsutoshi Nakashima
Waldo Emerson McKinney

THE CHARLES LATHROP PACK FOUNDATION PRIZE IN FORESTRY
George Clemens Flanagan

THE OMICRON NU PRIZE IN HOME ECONOMICS
Alice Elizabeth Anderson

THE CHI OMEGA PRIZE IN SOCIOLOGY
Helen Ethel Morgan

THE NORTHWEST CONCRETE PRODUCTS ASSOCIATION PRIZE IN
CIVIL ENGINEERING
(For 1927-1928)
Roe Parker Rodgers William Theodore Wright

THE McKEAN BOOK PRIZE
Shige Ninomiya

THE ITALIAN COMMERCIAL CLUB GOLD MEDAL FOR EXCELLENCE IN ITALIAN
Phyllis Pilkington

THE LEHN AND FINK GOLD MEDAL FOR PHARMACEUTICAL ESSAY
Cliveden Lloyd Cox

THE AMERICAN PHARMACEUTICAL ASSOCIATION GOLD MEDAL FOR
EXCELLENCE IN PHARMACY
Norman Francis Libert

THE AMERICAN INSTITUTE OF ARCHITECTS MEDAL FOR DISTINCTION
IN DESIGN
Paul Albert Thiry

THE LINTON MEMORIAL AWARD
Clarence Hunter Brown

THE JUNIOR MILITARY PRIZE
Robert Bruce Hitchman

Not Yet Awarded

PUYALLUP UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP
CLALLAM COUNTY UNIVERSITY OF WASHINGTON ALUMNI SCHOLARSHIP

THE JUDGE KENNETH MACKINTOSH PRIZE IN DEBATE

THE JAGGARD ESSAY PRIZE

THE PHILO SHERMAN BENNETT ESSAY PRIZE IN POLITICAL SCIENCE

THE CHINA CLUB ESSAY PRIZE

THE FRANK BUTY ESSAY PRIZE

THE A. MERLINO ESSAY PRIZE

THE FREDERICK AND NELSON SMALL HOUSE COMPETITION

COMMISSIONS IN THE OFFICERS' RESERVE CORPS,
UNITED STATES ARMY

SECOND LIEUTENANT, INFANTRY

George Samuel Cook
Richard Laurance Dilworth
Milton Jacob Evans
Par Jerome Gehring
Clarence Alexander Grahn
Charles Hartshorn Harris
Delfer Hope Jackson
Theodore Cook Jenks

George Ross Kingston
Bernard Lowenstein
Richard King Neal
Elmer Ogawa
Russell Smith Price
James Allen Tower
Theodore Busick Weld

SECOND LIEUTENANT, COAST ARTILLERY

Carl William Bernhard
Lee Reno Dawson
Cullen Jerrold DeGraw
Hiram DePuy, Jr.
Schuyler Leverich Duryee
Allen Ellsworth Horning
Charles Walter Huffine
Malcolm Faulknor Judkins
Palmer Gates Lewis

Ralph Herbert McClarren
Donald Franklin Pennell
Arthur Corbett Peterson, Jr.
Selby Millmore Skinner
Richard Lewis Stith
Carl Russell Swenson
Clayton Kenus Watkins
Richard Clabeau Willman

SECOND LIEUTENANT, AIR CORPS

Jesse Earle Champers
Edward Eaton Gutherless
Charles Eugene Lauer

Edward McLean Lewis
Harold Maxwell Stratton
Wallace William Quistorff

CERTIFICATION FOR APPOINTMENT IN OFFICERS' RESERVE CORPS

Infantry

Quentin R. Davis

Albert Gallatin Flournoy

Air Corps

John Gammell

HONOR GRADUATES OF THE RESERVE OFFICERS' TRAINING CORPS

Quentin R. Davis

Edward Duval Hoffman

Donald Franklin Pennell

REGISTER OF STUDENTS—1927-1928

Aagaard, Helen, LA.....	Seattle	Allen, Alleen, LA.....	Seattle
Aaron, Norman, LA.....	South Bend	Allen, Anne B, LA.....	Olympia
Abbott, Isabel, LA.....	Seattle	Allen, Bessie Lee, LA.....	Petersburg, Alaska
Abel, Dorothy Louise, LA.....	Montesano	Allen, Bruce D, Bus.....	Seattle
Abel, George F, LA.....	Montesano	Allen, Capitola, Grad.....	Seattle
Abel, Marian, LA.....	Aberdeen	Allen, Edith H, LA.....	Seattle
Abel, Ruth, LA.....	Montesano	Allen, Erms, FA.....	Seattle
Abell, Charles H, Grad.....	Seattle	Allen, Estelle M, LA.....	Seattle
Abella, Roman V, Engr.....	Seattle	Allen, Frank, FA.....	Seattle
Abella Sebastian, LA.....	Philippines	Allen, Flora S, FA.....	Seattle
Abellera, Antonio Diaz, LA.....	Philippines	Allen, Frances, FA.....	Tacoma
Abian, Federico B, LA.....	Philippines	Allen, Glenn B, Bus.....	Highwood, Mont
Abian, Guillermo, Fsh.....	Philippines	Allen, Harvey S, Sci.....	Spokane
Abramowitz, Mary, LA.....	Seattle	Allen, Herbert Eugene, Engr.....	Seattle
Abrams, Madeleine, LA.....	Seattle	Allen, John Beresford, LA.....	Seattle
Abry, Joseph E, Bus.....	Seattle	Allen, Josephine, Sci.....	Seattle
Acena, Mena A, Engr.....	Seattle	Allen, Kathryn, LA.....	Seattle
Acena, Bernardo, Sci.....	Philippines	Allen, Marjorie E, LA.....	Tacoma
Acena, Casimiro A, LA.....	Philippines	Allen, Ralph K, Grad.....	Ottawa, Kan
Acker, Margaret E, LA.....	Spokane	Allen, Richard B, LA.....	Seattle
Ackley, Lee, FA.....	Seattle	Allen, Stanley, LA.....	Seattle
Adair, Beryl E, FA.....	Carnation	Allen, Wendell, Sci.....	Seattle
Adair, Chester Cole, LA.....	Seattle	Allen, Wm H, Engr.....	Seattle
Adair, Helen Janet, LA.....	Seattle	Allex, George C, Edu.....	Seattle
Adamec, Ermgard, FA.....	Seattle	Allison, Dorothy, LA.....	Goldendale
Adami, Dorothy, LA.....	Wallace, Ida	Allison, Elton R, Sci.....	Centralia
Adams, Betty D, LA.....	Seattle	Allison, Helen Lance, Grad.....	Seattle
Adams, Clyde B, Sci.....	Richmond Beach	Allison, Marshall D, Engr.....	Los Ang, Calif
Adams, Frank C, Fsh.....	Seattle	Almaden, Philip J, Sci.....	Hogulam
Adams, Harold L, Engr.....	Seattle	Almquist, Eddie E, LA.....	Seattle
Adams, Helen E, Grad.....	Naches	Altick, Grace, FA.....	Seattle
Adams, Joseph, LA.....	Seattle	Altose, Anne, FA.....	Bellingham
Adams, Lucile D, LA.....	Tacoma	Alutin, Alexander, For.....	Russia
Adams, Margaret G, LA.....	Seattle	Alyea, Milton, Sci.....	Seattle
Adams, Marlon E, Engr.....	Seattle	Alutin, Seraphima, Sci.....	Seattle
Adams, Robert Leroy, Engr.....	Vancouver	Ames, Marshall B, Min.....	Yakima
Adams, J Russell, Engr.....	Cheney	Ames, Martina, LA.....	Seattle
Adams, Ruth Marjorie, LA.....	Seattle	Amick, Helen, Bus.....	Seattle
Adams, Sidney, Sci.....	Peshastin	Amundsen, E M, LA.....	Long Beach, Calif
Adams, Terrel B, LA.....	Seattle	Ancheta, Andres, Sci.....	Philippines
Adams, Wm E, Pharm.....	Sumner	Andersen, Edwin, Sci.....	Bellingham
Adamson, Anna R, LA.....	Seattle	Andersen, Leona, Sci.....	Mabton
Adamson, Claribel, Sci.....	Toppenish	Andersen, Ruth M, LA.....	Seattle
Adamson, Lee J, Bus.....	Seattle	Andersgaard, Amber, Sci.....	Comstock, Minn
Adamson, Ruth L, Bus.....	Seattle	Andersgaard, Helen V, LA.....	Comstock, Minn
Adatto, Emma, LA.....	Seattle	Anderson, Alice E, Sci.....	Seattle
Adjutant, Dorothy G, Bus.....	Seattle	Anderson, Anton L, Law.....	Creston
Africh, Marye, LA.....	Douglas, Alaska	Anderson, Andrew Leonard, Sci.....	Hogulam
Agbayani, Pedro B, Grad.....	Philippines	Anderson, Carl G, Bus.....	Seattle
Aguinaldo, Roman L, LA.....	Philippines	Anderson, Carletta K, Sci.....	Seattle
Agustines, Pedro R, Engr.....	Philippines	Anderson, Charles Axel, Engr.....	Hoh
Ahquist, Helen L, FA.....	Buhl, Ida	Anderson, David T, FA.....	Seattle
Ahnquist, Carl G H, Grad.....	Everett	Anderson, Dean, Bus.....	Eatonville
Airth, Jane L, Sci.....	Seattle	Anderson, Edith L, Grad.....	Spokane
Aitken, Hugh, LA.....	Centralia	Anderson, Edward C, Engr.....	Bellingham
Aitken, James, Bus.....	Vancouver, BC	Anderson, Eleanor Sue.....	Seattle
Akey, K T, Engr.....	Seattle	Anderson, Elizabeth M, LA.....	Seattle
Akshina, Alex, Engr.....	Moscow, Russia	Anderson, Elizabeth A, Grad.....	Seattle
Albin, Tom B, LA.....	Mercer Island	Anderson, Elsie, LA.....	Republic
Albin, Vera G, LA.....	Portland, Ore	Anderson, Enoch A, Engr.....	Seattle
Albrecht, Elsie M, LA.....	Seattle	Anderson, Eric, For.....	Seattle
Aldridge, Edwin R, Bus.....	Seattle	Anderson, Elmer J, Edu.....	Seattle
Albright, Harry G, LA.....	Seattle	Anderson, Georgia E, LA.....	Seattle
Alcabedas, B P, Edu.....	Philippines	Anderson, Grace Edna, Sci.....	Lynden
Alcorn, Gerald F, Engr.....	Yakima	Anderson, C Brmont, LA.....	La Center
Aldrich, Berta, Grad.....	Everett	Anderson, Esculene, LA.....	Seattle
Aldrich, Dorothy C, LA.....	Billings, Mont	Anderson, Evelyn Martha, Grad.....	Seattle
Aldrich, Ione U, LA.....	Everett	Anderson, Fred, Engr.....	Spokane
Aldrich, Luman F, Bus.....	Aberdeen	Anderson, J Harold, Law.....	Seattle
Aldrich, Weston C, LA.....	Seattle	Anderson, Harold W, Law.....	Seattle
Alexander, Lavenia, LA.....	Seattle	Anderson, Hallie B, LA.....	Seattle
Alexander, Mary M, FA.....	Seattle	Anderson, Helen B, LA.....	Seattle
Alexander, Paul H, LA.....	Sedro-Woolley	Anderson, Helen C, LA.....	Port Angeles
Alford, Grace R, LA.....	Seattle	Anderson, Helen Marie, Sci.....	Seattle
Alfredson, Ellen, LA.....	Seattle	Anderson, Herbert H, LA.....	Seattle
Alhadef, Charles, Fsh.....	Seattle	Anderson, Hulda E, LA.....	La Grande, Ore
All, Ashraf, Engr.....	India	Anderson, Herman A, Bus.....	Seattle
Alkema, Herman J, Bus.....	Portland, Ore	Anderson, Isabella, LA.....	Seattle

Anderson, John A, Grad.....	Seattle
Anderson, Katherine G, Libr.....	Portland, Ore
Anderson, Kenneth G S, Bus.....	Hawaii
Anderson, Kenneth R, Engr.....	Seattle
Anderson, Larz, LA.....	Seattle
Anderson, Lennart, Bus.....	Anacortes
Anderson, Leo, For.....	Curlew
Anderson, Lucile, Sci.....	Seattle
Anderson, Luella, Sci.....	Seattle
Anderson, Lydia L, Grad.....	Sedro-Woolley
Anderson, Lloyd A, Grad.....	Roy
Anderson, Magnus O, LA.....	Blanchard
Anderson, Martha, LA.....	Seattle
Anderson, Melvin A, LA.....	Seattle
Anderson, Mildred J, Sci.....	Row
Anderson, Paul H, Bus.....	Du Pont
Anderson, Richard H, Sci.....	Seattle
Anderson, Robert C, LA.....	Tacoma
Anderson, Rolfe E, For.Coeur d'Alene, Ida	
Anderson, Ruth Agada, Edu.....	Seattle
Anderson, Ruth L, FA.....	Seattle
Anderson, Ruth E, FA.....	Seattle
Anderson, Stephen B, LA.....	Seattle
Anderson, Theodore R, Engr.....	Creston
Anderson, Neill, Fsh.....	Seattle
Anderson, Thor, Engr.....	Port Blakeley
Anderson, Theresa E, LA.....	Kent
Anderson, Virginia L, LA.....	Tekoa
Anderson, Virgil V, LA.....	Seattle
Anderson, Webster B, LA.....	Seattle
Anderson, William, Engr.....	Winthrop
Andonian, Mihran P, Bus.....	Olympia
Andre, Floyd C, For.....	Tacoma
Andreasen, Louis, For.....	Enumclaw
Andreson, E H, Bus.....	Long Beach, Calif
Andrew, Nicholas N, Fsh.....	Seattle
Andrew, Helen, LA.....	Seattle
Andrew, Maurice B, Engr.....	Yakima
Andrews, Charles W, Sci.....	Seattle
Andrews, Edith, LA.....	Seattle
Andrews, Emery, Grad.....	Seattle
Andrews, Harriett, Sci.....	Seattle
Andrews, Marjorie Sue, FA.....	Seattle
Andrews, Robert M, Bus.....	Scenic
Andrus, Eleanor, LA.....	Tacoma
Andrus, Margaret P, LA.....	Seattle
Annis, Wilbert, Engr.....	Seattle
Anln, Caroline, LA.....	Seattle
Anglea, T H, Bus.....	Seattle
Angst, Dorothy E, LA.....	Seattle
Angst, Ernest Clement, Grad.....	Seattle
Angst, Raleigh, Engr.....	Seattle
Angus, Dulcie, LA.....	Seattle
Anholt, Harry M, LA.....	Richmond Beach
Ankeny, Levi, Law.....	Seattle
Anthony, Richard Wayne, FA.....	Toppenish
Antonova, Helen A, Min.....	Seattle
Antoncich, Michael A, LA.....	Winslow
Anunciacion, Lucas, Sci.....	Philippines
Appelgren, Fredrik W, Fsh.....	Portland, Ore
Applegate, Lindsay M, Grad.....	Walla Walla
Aquino, Valentin R, LA.....	Philippines
Aral, Hobel, Engr.....	Seattle
Archibald, Nina, Sci.....	Lewiston, Ida
Arima, John Kiyoshi, Engr.....	Auburn
Armentrout, Myra, LA.....	Auburn
Armistead, Helen, LA.....	Seattle
Armstrong, Clifford, Bus.....	Seattle
Armstrong, Dale, Engr.....	Dayton
Armstrong, Everett, Phar.....	Havre, Mont
Armstrong, Homer B, Bus.....	Seattle
Armstrong, Mildred, LA.....	Seattle
Armstrong, Nelson B, LA.....	Bowmanville, Can
Armstrong, Thos G, LA.....	Chehalis
Armstrong, W Grant, Law.....	Chehalis
Armstrong, Wallace, Sci.....	Vancouver
Arndt, Wm, LA.....	Portland, Ore
Arnett, Emery G, FA.....	Seattle
Arney, Clifford, FA.....	Kent
Arneson, Gladys, FA.....	Big Timber, Mont
Arnold, Elizabeth, FA.....	Seattle
Arnold, Evert F, Law.....	Livingston, Mont
Arnold, Wilson, LA.....	Seattle
Arnold, Winifred H, FA.....	Oswego, Ore
Arntson, Anthony W, Law.....	Tacoma
Aronin, Anne, LA.....	Seattle
Aronin, Sally, Bus.....	Seattle
Aronow, Cedar B, LA.....	Shelby, Mont
Aronson, Sam, Sci.....	Seattle
Arps, Johanna R, FA.....	Vancouver
Asp, Nogi A, Engr.....	Seattle
Arquero, Lazar, LA.....	Seattle
Arthur, Delmar B, Engr.....	Pinehurst
Asanuma, Frank Takajiro, Bus.....	Japan
Ashby, Paul F, LA.....	Seattle
Asher, Adolph, Bus.....	Portland, Ore
Asher, Ben D, Engr.....	Portland, Ore
Asher, Katharine, LA.....	Portland, Ore
Ashley, Wanda J, LA.....	Seattle
Ashwell, Leonard W, Bus.....	Seattle
Askren, Marie, LA.....	Olympia
Asp, Nogi A, Engr.....	Seattle
Aspray, Joseph M, Sci.....	Spokane
Asseln, William W, Engr.....	Anacortes
Aster, Doris M, FA.....	Spokane
Atchison, Reta Mae, LA.....	Seattle
Atkins, C Burwell, Sci.....	Butte, Mont
Atkinson, Dorothy F, Grad.....	Spokane
Atkinson, Pryde, LA.....	Seattle
Atmore, Josephine L, Sci.....	Santa Paula, Cal
Attix, Julia P, LA.....	Seattle
Attridge, Sarah H, Sci.....	Bremerton
Atwood, Milan, Sci.....	Seattle
Audley, Robert S, LA.....	Seattle
Ault, Peggy, LA.....	Honolulu
Aumann, Dorothy M, Grad.....	Port Angeles
Augsburger, Olga Ellen, FA.....	Los Angeles, Cal
Ausman, Frank Carl, Fsh.....	Seattle
Aust, Emil, Bus.....	Pe Ell
Austin, Catherine L, FA.....	Seattle
Austin, Helen Jean, LA.....	Spokane
Austin, Lucia, LA.....	Spokane
Austin, Margie L, LA.....	Lyman
Austin, Mary Catherine, LA.....	Seattle
Avery, Edith, LA.....	Seattle
Avery, Patricia, FA.....	Los Angeles, Cal
Avery, Ruth Eleanor, LA.....	Renton
Awender, Peter J, Bus.....	Lefar, N.D.
Axling, Glenn D, Fsh.....	Lynden
Ayabe, Taka, Sci.....	Japan
Ayers, Mildred, FA.....	Olympia
Ayres, Horace C, Engr.....	Seattle
Babcock, Jack, LA.....	Spokane
Babcock, Lola, Sci.....	Seattle
Bache, Hazel K, LA.....	Seattle
Bachelor, Nina, LA.....	Everett
Backeberg, Floyd H, Engr.....	Longview
Backlund, John, Jr, LA.....	Seattle
Backus, Manson F, Sci.....	Seattle
Bacon, Cecil D, LA.....	Bellingham
Bacon, Cecil H, Jr, LA.....	Seattle
Bacon, Kenneth S, LA.....	Yakima
Baden, Alvina, LA.....	Spangle
Badger, Harold R, Engr.....	Centralia
Badgley, Edwin M, LA.....	Seattle
Baer, Donald, Law.....	Seattle
Baer, Geo F, Engr.....	Seattle
Bagaasan, Juan Z, Bus.....	Philippines
Bagby, Loretta, LA.....	Billings, Mont
Bagby, William E, Sci.....	Bremerton
Bagley, Lillian Mae, Sci.....	Sedro-Woolley
Bailey, Edward W, Engr.....	Seattle
Bailey, Katherine A, LA.....	Seattle
Bailey, Lawrence, LA.....	Seattle
Bailey, Myrtle Ellen, LA.....	Seattle
Bailey, Raymond L, LA.....	Seattle
Bailey, Robert H, LA.....	Seattle
Bailey, Warren W, Engr.....	Seattle

Baily, Ray A, Bus.....	Seattle	Barnett, Elmer H, Grad.....	Burlington
Bain, David Russel, Bus.....	Seattle	Barrett, John P, LA.....	Crestan
Bair, George W, LA.....	Bowbells, ND	Burnett, Kelso C, LA.....	Seattle
Baird, Cora May, LA.....	Everett	Barnett, Margaret V, LA.....	Haines, Alaska
Baird, Elinor L, LA.....	Seattle	Barnett, Virginia, LA.....	Seattle
Baird, Flora, LA.....	Worland, Wyo	Barnett, Zelma, FA.....	Longmire Springs
Baird, Harriet, LA.....	Seattle	Barham, Anne Josephine, LA.....	Seattle
Baird, Hugh, Jr, Bus.....	Seattle	Barnum, Robert, Bus.....	Stanwood
Baisler, Edward N, LA.....	Seattle	Barnhart, Estel H, Engr.....	Spokane
Baisler, Perry E, LA.....	Seattle	Barnhart, Margaret, FA.....	Seattle
Bakenhus, Priscilla, LA.....	Seattle	Barubart, Thomas, LA.....	Snohomish
Baker, Dorothy, Edu.....	Seattle	Barr, Eric L, LA.....	Seattle
Baker, Evangeline, Sci.....	Seattle	Barraclough, Jordan, Bus.....	Seattle
Baker, Gerald M, Sci.....	Ellensburg	Barrett, Anna K, FA.....	Albany, Ore
Baker, Geraldine, FA.....	Seattle	Barrett, Elsie R, LA.....	Centralia
Baker, Gilbert M, Bus.....	Helena, Mont	Barrett, Frederick M, LA.....	Seattle
Baker, Harold E, Engr.....	Yakima	Barrett, Lawrence O, Engr.....	McCarthy, Alas
Baker, Harold V, Bus.....	Whitefish	Barrett, Rosamond, LA.....	Bellingham
Baker, Irene H, LA.....	White Salmon	Barrows, Omar McK, LA.....	Wenatchee
Baker, Isabel McArthur, FA.....	Seattle	Barry, Agnes June, FA.....	Puyallup
Baker, Lee E, Grad.....	Seattle	Barry, Dorothy, LA.....	Puyallup
Baker, Louisa, LA.....	Seattle	Barreau, Gordon, LA.....	Seattle
Baker, Lucille, FA.....	Seattle	Barbells, Clifford A, Engr.....	Seattle
Baker, Marlon, FA.....	Seattle	Barth, Francis A, Bus.....	Great Falls, Mont
Baker, Marlon H, Sci.....	Seattle	Barthell, Russell Wm, LA.....	Seattle
Baker, Mary K, Jour.....	Seattle	Bartholet, Juliana M.....	Yakima
Baker, Priscilla, LA.....	Spokane	Bartholomew, Wallace, LA.....	Seattle
Baker, Sue, FA.....	Richmond Beach	Bartlett, George K, LA.....	Boise, Ida
Baker, Sylvia, FA.....	Pasadena, Cal	Bartlett, Margaret M, LA.....	Portland, Ore
Baker, Virginia, FA.....	Seattle	Bartlett, Mariana, FA.....	Seattle
Balch, Donna Ellen, LA.....	Seattle	Bartlett, Rose, Sci.....	Seattle
Balcon, Maurice, LA.....	Grandview	Bartley, Bruce, LA.....	Zillah
Baldauf, Cora, Sci.....	Seattle	Bartley, Deane, LA.....	Zillah
Balderston, Helen E, Sci.....	Seattle	Bartley, Dorothy, Bus.....	Seattle
Baldrige, Joe Vern, Sci.....	Sedro-Woolley	Bartolome, Gregorio P, Fah.....	Dingras, PI
Baldwin, Albert, Engr.....	Seattle	Barton, Eleanor R, Bus.....	Boise, Ida
Bale, Robert, Bus.....	Seattle	Barton, Louise Beal, LA.....	Seattle
Ball, Frederic L, Sci.....	Yakima	Basildes, Ruth, FA.....	Seattle
Ball, Gerald, Bus.....	Tacoma	Baskerville, Robert, Grad.....	Tacoma
Ball, John K, Engr.....	Spokane	Bass, Adelle, LA.....	Seattle
Ballaine, F K, LA.....	Seattle	Bass, Ernest, Bus.....	Seattle
Ballaine, Jerrold F, Bus.....	Seattle	Bass, John M, Bus.....	Seattle
Ballaine, Wesley C, Grad.....	Bellingham	Bassford, Lois, LA.....	Seattle
Ballantyne, Verne, Bus.....	Hoquiam	Bassi, Agapito L, LA.....	Philippines
Ballard, Donald A, Sci.....	Auburn	Basthelm, Helen, LA.....	Seattle
Ballard, Herbert N, Engr.....	Auburn	Bate, Burton, Engr.....	Wenatchee
Ballard, Noel, Phar.....	Seattle	Bates, Charles H, Bus.....	Seattle
Ballou, William H, LA.....	Seattle	Bates, Erma Louise, LA.....	Seattle
Bald, Burton E, Min.....	Seattle	Bates, James W, Sci.....	Seattle
Balsiger, Helen M, FA.....	Ione, Ore	Bates, Ruth T, LA.....	Tacoma
Banker, Earl, LA.....	Seattle	Bates, Wm E, Jr, Engr.....	Honolulu
Banker, Grant, Bus.....	Seattle	Battelle, Charles N, Bus.....	Tacoma
Banta, Helen, LA.....	Seattle	Battle, Charles E, Sci.....	Vancouver, BC
Banton, Mary Elizabeth, Sci.....	Walvelle	Bauer, Hubert, Sci.....	Seattle
Barangan, Crescencio J, LA.....	Philippines	Baughman, E Leroy, Bus.....	Portland
Barber, Clarence A, Bus.....	Seattle	Baum, George F, LA.....	Seattle
Barberis, Edward, Bus.....	Seattle	Baunsgard, Lee A, Engr.....	Seattle
Barbour, Dana Mills, LA.....	Seattle	Bautista, Felino, For.....	Philippines
Barclay, Wm Lloyd, For.....	Seattle	Baxter, William R, Bus.....	Seattle
Bard, Elliott E, Engr.....	Seattle	Bayes, Russell R, LA.....	Lynden
Barde, Muriel C, LA.....	Seattle	Bayles, Edith, FA.....	Seattle
Bare, Edwin E, Jr, Bus.....	Tacoma	Bayles, George, Bus.....	Seattle
Bare, Margaret, LA.....	Tacoma	Bayly, Esther Rose, LA.....	Monroe
Bargmeyer, Ernest G, Engr.....	Montesano	Bayley, Frank S, LA.....	Seattle
Bargreen, Howard, Bus.....	Everett	Beach, D W, Sci.....	New Westminster, BC
Barker, Burke G, LA.....	Seattle	Beach, R W, Engr.....	New Westminster, BC
Barker, Edna Thiebe, FA.....	Seattle	Beachwood, Edith M, Bus.....	Seattle
Barker, Helen, FA.....	Seattle	Beagles, Floyd C, Bus.....	Seattle
Barker, Robert W, Engr.....	Seattle	Beal, Maud L, LA.....	Seattle
Barkhuff, Delbert, Bus.....	Seattle	Beall, Constance, LA.....	Vashon
Barkley, Dorothy, Sci.....	Ellensburg	Beall, Virginia, LA.....	Vashon
Barlow, Max E, LA.....	Bellingham	Beamer, Gladene, FA.....	Spokane
Barmon, Richard, LA.....	Seattle	Beamer, Helen R, LA.....	Seattle
Barnaby, J T, Fsh.....	Seattle	Beamish, Ernest L, LA.....	Brooklyn, NY
Barnard, Ruth K, LA.....	Seattle	Bean, Hazel R, FA.....	Seattle
Barnes, Chester F, LA.....	Seattle	Bean, Kathryn C, FA.....	Yakima
Barnes, Clifford, Sci.....	Goldendale	Bean, Ruth I, Sci.....	Presque Isle, Me
Barnest, Howard E, Engr.....	Waterville	Beans, Margaret, Sci.....	Everett
Barnes, John F, Sci.....	Chappell, Neb	Bear, Ada L, LA.....	Seattle
Barnett, Arthur G, LA.....	Seattle	Bearse, Muriel, Sci.....	Seattle

Beasley, John Lewis, Bus.....	Seattle	Berg, Alice May, Sci.....	Seabeck
Beatty, Donald T, LA.....	Wenatchee	Berg, Claude, FA.....	Clinton
Beatty, Eileen, FA.....	Bremerton	Berg, Geraldine, LA.....	Seattle
Beautista, Raimundo, LA.....	Philippines	Berg, Mildred, Sci.....	Yakima
Beck, Signe E, FA.....	Seattle	Berg, Melvin Alex, Bus.....	Seattle
Becker, Albert, Engr.....	Seattle	Berg, W E, Bus.....	Seabeck
Beckstead, James M, LA.....	Enumclaw	Berger, Lewis C, Bus.....	Seattle
Becker, Henry, Bus.....	Seattle	Bergh, Willard A, LA.....	Seattle
Beckett, E Edgar, Sci.....	Seattle	Berglund, John L, Bus.....	Bellingham
Beckett, Eleanor May, LA.....	Seattle	Berglund, Ralph Martin, Fsh.....	Tacoma
Beckman, Elizabeth, FA.....	Seattle	Berquist, Ivan W, For.....	Geneva, Ill
Beckmann, Jewel, FA.....	Seattle	Bergstrom, Charlotte, Sci.....	Mukilteo
Beckmann, Perry H, Bus.....	Seattle	Bergstrom, Theodore, Engr.....	Seattle
Beckwell, Bessie, LA.....	Seattle	Berkman, Dorothy R, FA.....	Seattle
Beckwith, Frances, LA.....	Seattle	Berlin, Clarence, Bus.....	Seattle
Beeks, William T, Jr, Bus.....	Seattle	Berlin, H Merie, LA.....	Kent
Beeler, George W, Bus.....	Seattle	Berling, Marion, FA.....	Port Orchard
Beeler, Modison, LA.....	Seattle	Bernardino, Alajandro, LA.....	Philippines
Beller, Jack, Edu.....	Los Angeles, Cal	Bernhard, Carl Wm, Engr.....	Seattle
Beeler, Mae B, LA.....	Seattle	Bernstein, Emanuel, Edu, Los Angeles, Cal	
Beers, Frank T, Jr, LA.....	Du Pont	Berry, Marguerite E, Sci.....	Seattle
Beller, Samuel, Grad.....	Los Angeles, Cal	Berry, Phyllis E, Sci.....	Seattle
Beers, Margaret, Sci.....	Du Pont	Berry, Rachel, LA.....	Pachuca, Max
Beers, Geo L, Bus.....	Issaquah	Berry, Ted F, LA.....	Seattle
Beert, Conrad, Grad.....	Belgium	Berry, Warren Hayden, LA.....	Seattle
Reeson, Paul B, Sci.....	Ketchikan, Alaska	Berryman, Elizabeth, FA.....	Seattle
Beewukes, Reinier, Engr.....	Seattle	Bertling, Regine, FA.....	Spokane
Beezer, Ross J, LA.....	Seattle	Bertsch, Wm, Jr, Bus.....	Great Falls, Mont
Beggs, Mary Katherine, LA.....	Spokane	Bertucci, Joe, LA.....	Tacoma
Beggs, Margaret, LA.....	Portland, Ore	Best, Charles A, Bus.....	Seattle
Begley, Catherine, LA.....	Seattle	Best, Robert D, LA.....	Everett
Behan, James A, Bus.....	Seattle	Best Norman, LA.....	Coeur d'Alene, Ida
Behnke, Alaska, LA.....	Seattle	Bettloll, Silvio Theodore, LA.....	Seattle Heights
Behurst, Don, Sci.....	Seattle	Betts, Kennedy, Law.....	Seattle
Behurst, Dorothy Ruth, LA.....	Seattle	Betts, Rachel M, Sci.....	Seattle
Beisse, Gertrude, Sci.....	Longview	Beutel, Mary Gail, LA.....	Burton
Belcher, Thelma Brooks, LA.....	Seattle	Bevens, Jack, Engr.....	Ridgefield
Belden, Eileen, LA.....	Seattle	Beveridge, Jean M, LA.....	Honolulu
Belknap, Mae, Grad.....	Seattle	Bevier, Dorothy Rae, FA.....	Juneau, Alaska
Bell, Carleton W, Phar.....	Bellingham	Bevilacqua, Alice, Edu.....	Seattle
Bell, Hazel, LA.....	Seattle	Bible, T W, Grad.....	Seattle
Bell, Mabel, LA.....	Seattle	Bicknell, Doreen A, LA.....	Honolulu
Bell, Merriel Garde, Bus.....	Seattle	Bidlake, Florence H, Sci.....	Seattle
Bell, Mervyn F, LA.....	Seattle	Bidwell, Edna Mae, LA.....	Wrangell, Alaska
Bell, Milo C, Engr.....	Seattle	Biggar, Howard, LA.....	Pasadena, Cal
Bell, Richard Barry, LA.....	Seattle	Biggar, John H, Bus.....	Pasadena, Cal
Bell, Vera F, LA.....	Seattle	Biglow, Eugene A, Bus.....	Middle River, Cal
Bell, Westey, Engr.....	Spokane	Bike, Charles Edwin, LA.....	Spokane
Bellamy, Tenny, FA.....	Seattle	Bille, Harold H, For.....	Tacoma
Bellingar, Earl E, Bus.....	Lynden	Billings, Earline, Sci.....	Tacoma
Bellman, Barbara, LA.....	Seattle	Billings, Lois Aileen, Sci.....	Grandview
Bellosillo, Leon A, LA.....	Seattle	Binderup, Hortense, Libr.....	Seattle
Bendzak, Elizabeth, Bus.....	Roslyn	Bingham, Arthur M, Bus.....	Port Angeles
Benedict, A H, Engr.....	Melatine Falls	Bingham, Florine, Sci.....	Seattle
Benedict, Chas E, LA.....	Spokane	Binkley, Bruce, LA.....	Orchards
Benediktson, Herdis, LA.....	Toppenish	Bird, Byron M, Grad.....	Seattle
Benediktson, Nordis, LA.....	Toppenish	Bird, W W, Grad.....	Fennimore
Beneker, Louise, LA.....	Seattle	Bills, Eleanor A, FA.....	Seattle
Benham, Merton R, LA.....	Seattle	Billingsley, Bessie, FA.....	Wenatchee
Benjamin, Frank, Bus.....	Tacoma	Billingsley, Kirby, LA.....	Wenatchee
Benlro, Antonio, LA.....	Philippines	Blackaller, Mary Louise, Grad.....	Seattle
Bennett, Claude A, LA.....	Chelan	Birdseye, Story, Law.....	Spokane
Bennett, June, LA.....	Wenatchee	Birdwell, Walter, LA.....	Holtton
Bennett, John L, LA.....	Tacoma	Bishop, Edwin J, Bus.....	Seattle
Bennett, Mabel A, Edu.....	Seattle	Bishop, Glen O, LA.....	Seattle
Bennett, V Ray, For, Santa Barbara, Cal		Bishop, Jean L, Sci.....	Seattle
Bennett, Raymond, LA.....	Seattle	Bishop, T W, Phar.....	Kelso
Bennett, Willard B, Bus.....	Bremerton	Bissonnette, William A, LA.....	Okanogan
Benson, Margaret, FA.....	Seattle	Bistrom, F Vernon, Engr.....	Seattle
Benson, W Ronald, Engr.....	Seattle	Bitar, Edward C, Bus.....	Hoquiam
Benthien, Vesta, Edu.....	Mt Vernon	Bitar, Wilhelmina, LA.....	Hoquiam
Bentley, Gladys Ann, LA.....	Seattle	Bitney, Leslie W, Bus.....	Aberdeen
Benton, Charles Wm, Engr.....	Seattle	Bittner, Frances, LA.....	Seattle
Benton, Dorothy, LA.....	Seattle	Bixby, Jane, LA.....	Seattle
Benton, Hugh H, Jr, LA.....	Seattle	Bixby, Mary E, Sci.....	Vancouver
Bennington, Olga, LA.....	Sunnyside	Bjornstad, Thorleif, Engr.....	Seattle
Benveniste, I E, Phar.....	Seattle	Blabon, W C, Engr.....	Cupertino
Bereler, Catherine, Sci.....	Seattle	Black, Candace O, LA.....	Seattle
Berenson, Milton H, LA.....	Everett	Black, Douris A, Sci.....	Spokane
Berezovsky, Cyril, Engr.....	Moscow, Russia	Black, Evelyn, LA.....	Everett

Black, Janet, LA.....	Ellensburg	Bollershev, Chas B, For.....	Seattle
Black, Roswell Jr, LA.....	Sumner	Bolles, Thos D, LA.....	Seattle
Blackaller, George C, LA.....	Seattle	Bolstad, Percy, LA.....	Seattle
Blackburn, Wm F, Bus.....	Seattle	Boister, William, Engr.....	Seattle
Blackledge, Marjorie, Sci.....	Mukilteo	Bolton, Raymond, LA.....	Everett
Blacknell, L H, FA.....	Seattle	Bomar, Richard J G, Sci.....	Seattle
Blackstone, Donald, LA.....	Chinook, Mont	Bolman, James, Grad.....	Seattle
Blackwood B D, Bus.....	Seattle	Bolton, John H, LA.....	Seattle
Blackwood, Helen, LA.....	Omak	Bona, H Milton, LA.....	Tillamuc
Blade, Walter, Bus.....	La Conner	Bonamy, Douglas, For.....	Seattle
Blades, Lucille, LA.....	Seattle	Bonamy, Jack, FA.....	Seattle
Blair, Dorothea M, LA.....	Seattle	Bonar, Marjorie I, LA.....	Seattle
Blair, Lawrence E, Sci.....	Bremerton	Bond, Beatrice A, LA.....	Yakima
Blair, Margaret, Sci.....	Bremerton	Bond, Lillian C, Bus.....	South Bend
Blair, Mary E, LA.....	Seattle	Bond, Willbur T, Bus.....	Sunnyside
Blair, Ralph, LA.....	Spokane	Bong, Tom, Engr.....	Seattle
Blair, Sara Palmer, Sci.....	Seattle	Bonham, Kelshaw, Sci.....	Seattle
Blair, Seabury, LA.....	Spokane	Bonham, H Robelen, LA.....	Palo Alto, Cal
Blair, Virginia, Sci.....	Seattle	Bonnar, Robert U, Sci.....	Seattle
Blake, Elizabeth, Bus.....	Seattle	Bontemps, Ray John, Engr.....	Seattle
Blake, Maxine, Jour.....	Seattle	Booker, Thomas R Jr, Bus.....	Seattle
Blakemore, Maxine, FA.....	Spokane	Boole, Warren, LA.....	Seattle
Blakesley, Paul W, Engr.....	Anacortes	Boomer, Frances N, Sci.....	Sunnyside
Blakesley, Rhena E, FA.....	Anacortes	Boone, Julian H.....	Seattle
Blakestad, Eleanor, LA.....	Seattle	Booth, Laurence S Jr, Law.....	Seattle
Blanchard, Fred C, Grad.....	Skagway, Alaska	Booth, Willard A, LA.....	Kirkland
Blanchard, Ida, Edu.....	Seattle	Booth, William N, FA.....	Seattle
Blanchard, Kenneth, LA.....	Skagway, Alaska	Boothby, E Lynn, LA.....	St John
Blanchard, Leonora, Phar.....	Seattle	Boothroyd, Philip N, Engr.....	Enumclaw
Bianco, Guillermo J, Fsh.....	Philippines	Borde, Ernest V, Pharm.....	Glenwood
Bianco, Simon Julian, Engr.....	Philippines	Bordeaux, Theodore, Bus.....	Olympia
Bianco, Jose B, LA.....	Philippines	Borgen, Bernice, LA.....	Seattle
Blankenhorn, John W, Bus.....	Bremerton	Borschell, Theron A, Bus.....	Seattle
Blanks, Evangeline, FA.....	Everett	Bosco, Ray, Bus.....	Vancouver
Blanton, Georgian Evalyn, LA.....	Seattle	Boselly, Lillian K, Sci.....	Seattle
Blatt, Ben, Bus.....	Bremerton	Boster, Margaret J, FA.....	Seattle
Blauert, Paul H, Edu.....	Spangle	Bothell, Raymond E, Engr.....	Seattle
Bleakney, Catherine, Sci.....	Walla Walla	Botsford, J Lawrence, LA.....	Seattle
Bleakney, William, Grad.....	Walla Walla	Bottoms, Geo C, Bus.....	Portland, Ore
Bleeker, Alethea S, Libr.....	Elizabeth, NJ	Boucher, Charles A, Bus.....	Vancouver
Blenkinsop, Willis, Bus.....	Spokane	Boudin, Lillian, FA.....	Tacoma
Blenkner, Margaret, LA.....	Broadus, Mont	Bouck, Noel, Engr.....	Sedro-Woolley
Bliethen, Clarence B, 2nd, Jour.....	Seattle	Bouley, Noel Warner, Engr.....	Olympia
Bliss, Emmagrace, Sci.....	Seattle	Boundy, James W, Bus.....	Seattle
Bloom, Howard E, Engr.....	Marysville	Bourke, Edward, FA.....	Seattle
Bloomfield, E Jervis, LA.....	Vancouver, BC	Bourns, Frank, Sci.....	Seattle
Bloomquist, Brandt, FA.....	Tacoma	Bousquet, Charlemagne, Bus.....	Wenatchee
Bloxham, Mable G, FA.....	Seattle	Boutan, Willabelle, FA.....	Seattle
Bloxom, Virginia.....	Seattle	Bowen, Charles H, LA.....	Olympia
Blue, A W, For.....	Seattle	Bowen, Dorothy Ruth, LA.....	Centralia
Blugerman, Leonide, Engr.....	Moscow, Russia	Bowen, Gilbert T, LA.....	Los Angeles, Cal
Bium, Alan L, LA.....	Seattle	Bowen, Grace Louise, FA.....	Centralia
Bium, Robert, LA.....	San Francisco, Cal	Bowen, Helen B, LA.....	Seattle
Blumenfeld, Irwin, LA.....	Seattle	Bowen, Joe E, Bus.....	Centralia
Blumenstock, Loraine, Grad.....	Michigan	Bowen, Margaret I, Sci.....	Centralia
Blumenthal, Julius, Bus.....	Seattle	Bowen, Mary E, LA.....	Centralia
Blumenthal, Louis, Bus.....	Seattle	Bower, Marie P, FA.....	Helena, Mont
Blythe, Alice, FA.....	Vancouver	Bower, Mary M, LA.....	Delano, Cal
Bob, Arthur L, Bus.....	Liberty	Bowers, Ben F, Bus.....	Seattle
Bobsen, Marjorie M, Bus.....	Seattle	Bown, Robert Frederick, Grad.....	Tacoma
Bock, Russell S, Bus.....	Spokane	Bowly, James W, Bus.....	Wendell, Ida
Bodenberg, Emmett T, Grad.....	Tacoma	Bowles, John C, Bus.....	Piedmont, Cal
Bodkin, Jack H, Bus.....	Seattle	Bowles, Rollin E, Sci.....	Port Angeles
Boeing, Lois, LA.....	Seattle	Bowles, Wallace D, LA.....	Seattle
Boettner, Roland B, Sci.....	Everett	Bowman, Clarence, FA.....	Seattle
Boettcher, Antone R, Edu.....	Richland	Bowman, Donald, LA.....	Seattle
Bogert, Elliott D V, Bus.....	Seattle	Bowman, Nellie H, Edu.....	Springfield, Mo
Bogert, Geraldine, LA.....	Seattle	Boyd, Arthur J, Bus.....	Valleyford
Bogert, Madeline, LA.....	Seattle	Boyd, Catharine, Grad.....	Seattle
Bogle, Betty, FA.....	Seattle	Boyd, Dwan D, Bus.....	Des Moines, Ia
Bogstad, Ruth E, LA.....	Everett	Boyd, Elizabeth, FA.....	Seattle
Bogue, H H Jr, Bus.....	Seattle	Boyd, Helen, LA.....	Seattle
Bogue, Jane, FA.....	Seattle	Boyd, Jeannette D, LA.....	Seattle
Bohart, Ruby M, Sci.....	Seattle	Boyd, Richard, Bus.....	Fairbanks, Alaska
Bohn, Blair D, Bus.....	Yakima	Boyer, Eloise, LA.....	Seattle
Bohn, J Reamer, Bus.....	Seattle	Boyer, E Virginia, Sci.....	Seattle
Boidan, Veronica, LA.....	Silver Bow, Mont	Boyken, Mary M, LA.....	Seattle
Bollen, Forrest, Engr.....	Vancouver	Boyle, J Watson, Sci.....	Opportunity
Bolinder, Alma Myrtle, LA.....	Paterson	Boyles, Eleanor, FA.....	Olympia
Bolinger, Jack, LA.....	Washoe, Mont	Bozorth, Claude A, Law.....	Woodland

Brabec, Fred L, Bus.....Gig Harbor	Brockmann, Lilly, FA....Richmond Beach
Brachvogel, Dick, Sci.....Seattle	Brodine, Franz A, FA.....Seattle
Bracken, Charles W, FA.....Seattle	Brodine, Sigrid, FA.....Seattle
Bracken, Flavia, LA.....Seattle	Broeren, Lawrence, Sci.....Prescott, Ore
Brackett, Cecil F, Bus.....Yakima	Broetje, Arthur, LA.....Yakima
Bradburn, Geo B, Jour.....Seattle	Brogan, Joseph A, Sci.....Seattle
Bradley, Arvid M, Jour.....Seattle	Brogren, Stanley, FA.....Seattle
Bradley, Joseph T, LA.....Seattle	Bromberg, Bernice, FA.....Portland, Ore
Bradshaw, Harriet E, Sci.....Seattle	Brooks, Virginia, FA.....Seattle
Bradshaw, Kathleen, LA.....Yakima	Brooks, Ernest A, Grad....Claremont, Cal
Brady, Anna Louise, LA.....Seattle	Brooks, Ruth A, LA.....Seattle
Brady, Ben L, Bus.....Seattle	Brooks, William, Sci.....Mukilteo
Brady, Bryant, Law.....Seattle	Broom, Edith, FA.....Edmonds
Brady, Calvin T, Bus.....Seattle	Brossols, May C, Sci.....Seattle
Brady, James E, Engr.....Pocatello, Ida	Brower, Kathleen V, LA.....Seattle
Brady, J Morrison, Bus.....Marysville	Brown, Alfred J, Sci.....Seattle
Brady, Thalia, LA.....Pocatello, Ida	Brown, Clarence H, Phar....Port Angeles
Bradford, Caty J, Grad.....Seattle	Brown, De Koven W, Fsh.....Seattle
Bradford, Donald, Engr.....Seattle	Brown, Eleanor, LA.....Seattle
Bradley, Roland, Bus.....Selah	Brown, Elliott J, Bus.....Seattle
Brain, Marvin W, FA.....Seattle	Brown, Evelyn S, LA.....Seattle
Brainard, Dorothy A, LA, Goodnews Bay, Alas	Brown, Finley C, Sci....Port Townsend
Brainard, Rosalyn, Edu.....Prosser	Brown, Fred T, LA....Great Falls, Mont
Braitzka, Ruby, Sci.....Everett	Brown, George H, FA.....Seattle
Brakel, Louise C, Sci.....Seattle	Brown, George M, LA.....Seattle
Bramel, Rosalind, FA.....Wenatchee	Brown, Gerald G, Phar....Centralia
Branch, Mabel H, LA.....Tacoma	Brown, Katherine O'F, Sci....Bellingham
Brand, Leo J, LA.....Seattle	Brown, Leslie J, LA.....Seattle
Brandmeier, Edward J, LA.....Seattle	Brown, Lucy Sanner, LA....Butte, Mont
Brandmeier, Wilhelmina, LA.....Seattle	Brown, Lois E, Grad.....Seattle
Brandner, H Phil, For.....Seattle	Brown, Malcolm J, Bus.....Sumas
Brandt, Betty, LA.....Seattle	Brown, Marletta, FA.....Waterville
Brandt, Evelyn, FA.....Puyallup	Brown, Martell, Bus.....Hoquiam
Brandt, Florence, LA.....Seattle	Brown, Mary C, Grad.....Seattle
Brandt, George, Bus.....Seattle	Brown, L May, Edu.....Cleveland, O
Brant, Dorothy, LA.....Seattle	Brown, Mildred H, Sci.....Seattle
Brandt, Kergan, Engr.....Seattle	Brown, Nanzie, LA.....Seattle
Brannan, Claude, Sci.....Auburn	Brown, Norman C, LA.....Everett
Brannick, Anne, Edu.....Bellingham	Brown, Pauline, LA.....Seattle
Bransford, Thomas L, LA....Portland, Ore	Brown, Rachel, LA.....Los Angeles, Cal
Branson, Nathan P, FA.....Davenport	Brown, Robert, LA.....Puyallup
Bratnober, John E, Jr, Engr.....Seattle	Brown, Robert Eldon, LA.....Seattle
Bratset, Arthur, Bus.....Seattle	Brown, Russell Daniel, LA....Cold Creek
Brattain, Louis V, Bus.....Seattle	Brown, W Russell, LA.....Seattle
Brattain, Mari, LA.....Seattle	Brown, Thyra, LA.....Puyallup
Braxdale, Clarence E, LA.....Tacoma	Brown, Violet, Sci.....Seattle
Bray, Mary C, Bus.....Seattle	Brown, Warren T, LA.....Seattle
Brazell, Frank W, Engr.....Seattle	Brown, Wilbur B, Bus.....Seattle
Breakey, Glenn M, Edu.....Bellingham	Brown, William H, Fsh.....Seattle
Breen, J Robert, Law.....Seattle	Brown, William H, Jr, Engr....Selleck
Brehm, Ed, Bus.....Seattle	Brown, Winston Baker, LA....Cold Creek
Brehm, Jane, LA.....Seattle	Brown, Winston D, LA.....Everett
Brechemin, Louis, LA.....Vancouver	Browne, Albert A, Engr.....Seattle
Bremner, Ray W, Edu.....Bellingham	Browne, Byron, Sci.....Seattle
Brennan, Catherine G, FA.....Seattle	Browne, Florinda, Sci.....Seattle
Breneman, Elizabeth, LA.....Seattle	Brownell, Roy Arthur, Engr.....Seattle
Brennen, Gordon, Bus.....Seattle	Brownell, Eugene B, Sci.....Seattle
Bresnan, Lucile, LA.....Charleston	Brownell, Mary Alice, LA.....Seattle
Bresnan, Rose, LA.....Bremerton	Brownell, Ruth, LA.....Seattle
Brewitt, Everilda, Sci.....Tacoma	Brownfield, F K, LA.....Chelan
Brewster, Charles E, Engr.....Anacortes	Brownhill, Dudley H, LA. McMinnville, Ore
Brice, Vernon V, LA.....Seattle	Browning, Kathleen, Sci.....Menlo
Bricker, William Lee, Grad.....Seattle	Brownson, Harold, Bus.....Wichita, Kan
Brickert, Josephine, Edu.....Seattle	Brownston, Sheldon, Sci....La Grande, Ore
Bridonstine, M Irene, FA....Iowa City, Ia	Brownton, Wesley F, LA.....Seattle
Brier, Grace K, LA.....Seattle	Broyles, Earl, Bus.....Seattle
Briggs, Beatrice, Sci.....Seattle	Broz, William R, Sci.....Tacoma
Briggs, M Frank, Engr.....Seattle	Bruley, Napoleon, LA.....Yakima
Briggs, Roberts, LA.....Seattle	Bruemmer, Arno John, Bus.....Seattle
Bright, Norah Jane, FA.....Seattle	Brunner, Eugene, Bus.....Seattle
Brimston, Marion Georgia, Grad....Seattle	Bruno, Louis V, LA.....Roslyn
Bringloe, Marguerite, LA.....Seattle	Brunson, Donald, FA.....Anacortes
Brinker, Evelyn, LA.....Seattle	Brunvoid, Eda, Sci.....Seattle
Brisbin, Wilma, Edu.....Bellingham	Brust, Shirley K, Sci....Portland, Ore
Britell, E P, LA.....Whitefish, Mont	Brustewitz, Hazel Maud, Sci.....Seattle
Brix, Herman, LA.....Tacoma	Bryan, Betty McGraw, LA.....Seattle
Brix, John A, LA.....Portland, Ore	Bryant, Carolyn, Sci.....Seattle
Brobeck, Lester F, Sci.....Seattle	Bryant, Charles M, Grad....Yakima
Brobst, Robert Nelson, Bus.....Bellevue	Bryant, Jerome C, Bus.....Seattle
Brockman, Dorothea A, FA.....Seattle	Brygger, Elaine, LA.....Seattle

Bublitz, Ruth, Bus.....	Seattle
Bucey, Boyd K, Sci.....	Seattle
Buchan, Mary, LA.....	Seattle
Buchanan, Jack F, Bus.....	Seattle
Buck, Elizabeth H, LA.....	Aberdeen
Buck, Evert G, Phar.....	Mt Vernon
Buck, Helen M, Edu.....	Seattle
Buck, Vincent C, Engr.....	Seattle
Buckley, Eugenie A, FA.....	Seattle
Buckley, Gladys E, Grad.....	Toppenish
Buckingham, Wallace, Sci.....	Seattle
Buckman, Frank E, Engr.....	Wapato
Bucy, Roy T, Engr.....	Seattle
Budd, Dick N, Sci.....	Wenatchee
Buddress, Elmer N, LA.....	Seattle
Budliger, John, For.....	Switzerland
Buedall, Anton, LA.....	Portland, Ore
Buenafe, Mariana, Sci.....	Philippines
Bullwinkel, Margaret, Bus.....	Seattle
Bullock, Cecil Frank, Grad.....	Seattle
Bungarner, Ledora, LA.....	Seattle
Bundy, Paul A, Engr.....	Seattle
Bungay, Ellen, LA.....	Spokane
Burge, Winifred, LA.....	Seattle
Burke, Emil T H, LA.....	Seattle
Bunker, Abbott, LA.....	Seattle
Bunker, Evans C, Law.....	Monrovia, Cal
Burch, Bethene, LA.....	Spokane
Burdic, Ila, LA.....	Seattle
Burdick, Kenneth, LA.....	White Salmon
Burdick, Myrtle E, LA.....	Seattle
Burgar, Phyllis Antonia, Phar.....	Seattle
Burge, Theodora, Edu.....	Naches
Burke, Elmer Rene, Bus.....	Seattle
Burke, William T, Bus.....	Seattle
Burkett, Geraldine, Bus.....	Seattle
Burgeson, Elms, FA.....	Seattle
Burgess, Inez, LA.....	Seattle
Burleigh, J A, Sci.....	Seattle
Burlew, Everts P, Engr.....	Monette
Burley, Edwin, Engr.....	Seattle
Burmeister, Viola, FA.....	Seattle
Burnes, Byron B, Bus.....	Seattle
Burnett, A Hazel, Grad.....	Seahurst
Burnett, Harold A, Sci.....	Seahurst
Burnett, Marlana R, LA.....	Seattle
Burns, Bartlett, Engr.....	Olympia
Burns, Edward, LA.....	Spokane
Burns, Eggert A, Law.....	Point Roberts
Burns, Ethel, FA.....	Seattle
Burns, Harry, LA.....	Seattle
Burns, C Hugo, LA.....	Seahurst
Burns, John C, LA.....	Seattle
Burns, Lillian A, Bus.....	Seattle
Burns, Nins, Grad.....	Seattle
Burns, Omar Allen, Grad.....	Seattle
Burns, Robert E, LA.....	Seattle
Burns, Robert K, Bus.....	Seattle
Burrell, John Eden, Engr.....	Seattle
Burroughs, A P, Law.....	Irvington, NY
Burroughs, Dorothy A, Sci.....	Seattle
Burroughs, Howard, LA.....	Tacoma
Burroughs, Jean, FA.....	Susanville, Cal
Bursell, Betty, LA.....	Seattle
Bursett, Clemens A, Bus.....	Seattle
Burson, Dorothy, Educ.....	Tekoa
Burton, Mildred, FA.....	Sequim
Burtheaell, James T Jr, Bus.....	Portland, Ore
Burton, John Howard, LA.....	Helena, Mont
Burwell, Robert Y, FA.....	Yakima
Bush, J Burchard, Sci.....	Seattle
Bush, Eleanor, LA.....	Seattle
Bush, Reba, Sci.....	Seattle
Busher, Edna, Educ.....	Auburn
Bushell, Donald, LA.....	Seattle
Bushnell, Sherman W, Engr.....	Seattle
Bushue, L B, Sci.....	Spokane
Buss, Bessie, Grad.....	Seattle
Buss, Elizabeth, Grad.....	Seattle
Busse, Charles W, Bus.....	Seattle
Butler, J Arthur, Bus.....	Seattle
Butler, Beatrice, LA.....	Seattle
Butler, Ben, Bus.....	Miles, Mont
Butler, Claude F, Engr.....	Tacoma
Butler, Clay P, Grad.....	Seattle
Butler, Gertrude, LA.....	Burlington
Butler, Florian, FA.....	Wenatchee
Butler, Helen R, Bus.....	Seattle
Butler, J Longino, LA.....	Seattle
Butler, Mae, Phar.....	Cashmere
Butler, Maurice C, LA.....	Seattle
Butler, Mildred, LA.....	Tacoma
Butler, Van B, Engr.....	Seattle
Butrick, Merritt A, LA.....	Tacoma
Butt, Charles N, Engr.....	Seattle
Butt, Donald R, LA.....	Seattle
Butt, Dorothy, Sci.....	Seattle
Butt, Richard V, Grad.....	Seattle
Butterworth, Roy S, Bus.....	Seattle
Buttles, William, LA.....	Wenatchee
Butzke, Florence, LA.....	Echo Lake
Buzard, Robert, LA.....	Medina
Byall, Wayne, LA.....	Seattle
Bye, John O, Grad.....	Seattle
Byles, Elvin, Engr.....	Melbourne
Byrd, Harold A, Bus.....	Yakima
Byrne, Ervin, LA.....	Seattle
Cabatit, Irineo R, Edu.....	Philippines
Cable, Ada Louise, Edu.....	Sunnyside
Cable, Henry S, Edu.....	Sunnyside
Cabot, Inez Leone, Sci.....	Aberdeen
Caccia, Louise C, LA.....	Seattle
Cadd, Walter A, LA.....	Ontario, Cal
Cahill, Edward, Engr.....	Seattle
Cain, Joy, LA.....	Wenatchee
Cain, Russell A, Grad.....	Seattle
Calder, Gordon, Bus.....	Los Angeles, Cal
Calder, Mary Etta, Edu.....	Seattle
Caldwell, Jane K, LA.....	Seattle
Calhoun, Charles E, Bus.....	Seattle
Calhoun, Emma June, LA.....	Seattle
Campbell, Alberta A, Bus.....	Seattle
Campbell, Allan D, Phar.....	Monroe
Campbell, Arnold, FA.....	Ferndale
Campbell, Clarence, Law.....	Seattle
Campbell, Clifford M, Bus.....	Seattle
Campbell, Eldon D, Bus.....	Seattle
Campbell, John Frank, Bus.....	Seattle
Campbell, Lee J, LA.....	Seattle
Campbell, Mary Eloise, LA.....	Hutchinson, Kan
Campbell, Robert D, LA.....	Puyallup
Campbell, Una, LA.....	Possession
Campbell, Walter B, LA.....	Pasadena, Cal
Camperson, Barton H, Bus.....	Seattle
Cunnam, Carl I, Bus.....	Everett
Calder, Mary Etta, Edu.....	Seattle
Caldwell, Anne H, LA.....	Seattle
Calhoun, Gerald A, LA.....	Seattle
Calhoun, Grant G, LA.....	Seattle
Calhoun, May T, Grad.....	Seattle
Calhoun, Millard Fillmore, LA.....	Everett
Calkins, Julius B, FA.....	Seattle
Calkins, Minnie M, Sci.....	Ceres
Callahan, Philip, Sci.....	Seattle
Callender, R Douglas, Bus.....	Seattle
Callender, Lorraine, FA.....	Seattle
Callin, Henry, LA.....	Spokane
Callison, Henry S, Bus.....	Seattle
Callow, Kathryn, FA.....	Hoquiam
Calvert, Dorothy, Sci.....	Del Rio, Tex
Calvert, William Jr, Bus.....	Seattle
Calvin, John, Grad.....	Seattle
Calvo, Marcos, Bus.....	Seattle
Camp, Eva M, Edu.....	Millwood
Campbell, Kenneth, Grad.....	Seattle
Campbell, Lillian H, LA.....	Everett
Canfield, Evelyn, LA.....	Seattle
Canfield, Galen Keith, Bus.....	Seattle

Cannon, Hayes, LA.....	Butte, Mont	Cavender, Fern M. Bus.....	Seattle
Capeloto, Simon, FA.....	Seattle	Cavender, Phyllis, Law.....	Seattle
Capitle, Vincent, For.....	Philippines	Cayton, Horace R. Bus.....	Seattle
Cappon, Alexander C. Grad.	Milwaukee, Wis	Cederberg, Theodore, Educ.....	Bellingham
Cappon, Dorothy, Grad.....	Milwaukee, Wis	Cedergreen, Doris B, LA.....	Wenatchee
Carballo, Jose J, LA.....	Philippines	Cederquist, Hildur, LA.....	Everett
Carberry, Lela G, LA.....	Seattle	Cederstrom, Moyl F, Grad.....	Seattle
Carberry, Margaret, LA.....	Spokane	Chaffee, Franklin T, Bus.....	Ontario, Cal
Cardiff, Edward S, LA.....	Yukima	Chaffee, Geo D, Bus.....	Bremerton
Cardwell, Elizabeth K, LA.....	Pomeroy	Chafin, Wm C, Engr.....	Seattle
Carey, Charles R, Law.....	Colville	Chain, Leo, Bus.....	Seattle
Carithers, James A, LA.....	Onalaska	Challis, Henrietta, FA.....	Seattle
Carleton, Henry L, LA.....	Seattle	Chamberlain, Frances I, LA.....	Seattle
Carleton, John J, LA.....	Seattle	Chamberlain, Marcella, LA.....	Seattle
Carlisle, F Burton, Bus.....	Seattle	Chambers, Arella T, LA.....	Seattle
Carlow, Theodore, Phar.....	Charleston	Chambers, Clara M, Sci.....	Seattle
Carlson, Alden, Engr.....	Seattle	Champers, Jeas E, For.....	Gallipolis, Ohio
Carlson, Arnold J, Engr.....	Seattle	Chan, Frank, Engr.....	China
Carlson, Carl B, Engr.....	Seattle	Chan, Geo L, Bus.....	China
Carlson, Carl R, LA.....	Altoona	Chanda, A, J, Engr.....	Seattle
Carlson, David H, Engr.....	Spokane	Chandler, Berniece, Grad.....	Seattle
Carlson, Elmer W, Bus.....	Spokane	Chandler, Marjorie, FA.....	Seattle
Carlson, Evar F, Bus.....	Aberdeen	Chaney, Bessie F, Sci.....	Seattle
Carlson, Evert A, For.....	Seattle	Chaney, Oldham A, Bus.....	Spokane
Carlson, Ferdinand R, Aud.....	Seattle	Chang, Chin T, LA.....	China
Carlson, Floyd E, For.....	Mt Vernon	Chang, Lei Chien, LA.....	China
Carlson, Frances, FA.....	Seahurst	Chao, Chit Yue, LA.....	Seattle
Carlson, Gladys M, FA.....	Boise, Idaho	Chapin, Daryl M, Grad.....	Salem, Ore
Carlson, Helen, FA.....	Idaho	Chapman, Kenneth, Engr.....	Everett
Carlson, John Jr, Bus.....	Helena, Mont	Chapman, Sylvia, LA.....	Seattle
Carlson, Margaret L, Bus.....	Everett	Chapman, Virginia, LA.....	Seattle
Carlson, Reuben C, Law.....	Tacoma	Chappell, Jack, LA.....	Seattle
Carlson, Roy C, For.....	Seattle	Chappellet, Henry, LA.....	Los Angeles, Cal
Carlson, Roy H, LA.....	Seattle	Chapple, Guernsey P, Sci.....	Yakima
Carlson, Ruth C, LA.....	Snohomish	Charbneau, Isabella, LA.....	Seattle
Carmichael, Noel, Bus.....	Seattle	Charbneau, Isabella J, LA.....	Seattle
Carnefix, Aubrey G, Engr.....	Seattle	Charnell, Henry V Jr, Sci.....	Seattle
Carothers, Kathryn, LA.....	Seattle	Chase, Ruth, LA.....	Pasadena, Cal
Carothers, N Paul, Sci.....	Montesano	Chatfield, Chester, LA.....	Seattle
Carothers, Sam, LA.....	Tacoma	Chattarton, Katherine, Sci.....	Seattle
Carr, Eldridge, LA.....	Bellingham	Chattarton, Mary, LA.....	Seattle
Carr, Otis, Engr.....	Seattle	Cheadle, J Kennard, Law.....	Seattle
Carroll, Chas O, LA.....	Seattle	Cheesman, Esther L, LA.....	Spokane
Carroll, Theodore B, FA.....	Seattle	Cheesman, Hugh F, LA.....	Spokane
Carroll, Thomas W, Sci.	San Francisco, Cal	Cheney, Pearl E, Bus.....	Seattle
Carroway, Emily C, LA.....	Seattle	Chenoweth, Lovell, Sci.....	St John
Carson, Everal B, LA.....	Vancouver	Cherniaskovsky, William J, Engr.....	Seattle
Carson, Inez R, LA.....	Seattle	Chesnut, Mabel, LA.....	Seattle
Cartano, John D, LA.....	Seattle	Chester, Claire, LA.....	Kalispell, Mont
Cartano, Margaret C, LA.....	Seattle	Chester, Helen, FA.....	Seattle
Carter, Elizabeth H, LA.....	Seattle	Chester, Leslie K, LA.....	Seattle
Carter, Glenn E, Engr.....	Sumner	Chester, Wm G, FA.....	Bellingham
Carter, W Hale Jr, Bus.....	Kelso	Chew, Eric M, Sci.....	East Seattle
Carter, Leo A, Engr.....	Seattle	Chew, Eric M, Sci.....	Seattle
Carter, Robert H, Engr.....	Spokane	Chikata, Jack, Phar.....	Seattle
Carter, William Laurence, Bus.....	Kalama	Childs, Herbert E, Grad.....	Donald
Cartwright, V S, Min.....	Seattle	Chilson, Geo H, Sci.....	Vancouver
Case, George B, LA.....	Wrangell, Alaska	Chinn, Don H, Bus.....	Seattle
Case, Georgia, LA.....	Seattle	Chinn, Yulin Kee, Bus.....	Seattle
Case, Katherine, Edu.....	Seattle	Chisholm, Dorothy M, Grad.	Wrangell, Alas
Case, Kenneth, LA.....	Seattle	Chisholm, Hulda H, Grad.....	Seattle
Case, Margaret, Sci.....	Grandview	Chittenden, Robert A, Bus.....	Kent
Case, Nell, FA.....	Seattle	Chittick, Muriel Larsen, LA.....	Seattle
Casey, Mildred, Edu.....	Seattle	Chong, Francis, Sci.....	Hawaii
Casey, Wm E, LA.....	Aberdeen	Christensen, Dorothy, LA.....	Chehalis
Cash, Beatrice, FA.....	Seattle	Christensen, Ferdinand A, Grad.....	Seattle
Cash, Chlotilda, FA.....	Spokane	Christenson, Iva Lucille, Bus.....	Seattle
Cash, Edna Marie, LA.....	Seattle	Christenson, Waldo, FA.....	Seattle
Casler, Brannon, Bus.....	Seattle	Christianscy, Dorothy, FA.....	Seattle
Casper, Barry, LA.....	Seattle	Christianson, Victor C, Grad.....	Everett
Cass, S Bruce, LA.....	Seattle	Christofferson, Ralph C, Bus.....	Marysville
Cassedy, Margaret M, Edu.	Dannybrook, ND	Christopher, Margaret A, FA.....	Wenatchee
Cassidy, Frank, Engr.....	Seattle	Christopher, Norman A, Engr.....	Seattle
Cassmore, Orin C, LA.....	Seattle	Christopher, Stephen J, LA.....	Olympia
Castor, T Davis, Engr.....	Seattle	Chriswell, Kenneth E, Engr.....	Bryu Mawr
Cato, Stewart C, Bus.....	Everett	Chu, Tung Chi, Grad.....	China
Caton, Dorothea, LA.....	Seattle	Church, Anna E, Grad.....	Tacoma
Catsulis, Takis, For.....	Seattle	Church, Elizabeth H, LA.....	Seattle
Cauby, Dorothy, LA.....	Wenatchee	Church, Margaret, Sci.....	Tacoma
Caughlan, John G, LA.....	Seattle	Church, Marie L, Bus.....	Seattle

Church, Ruth M, Grad.....	La Conner	Coburn, Helen, LA.....	Wenatchee
Church, Victoria V, Bus.....	Seattle	Cochran, Neil M, Bus.....	Snohomish
Church, William L, Bus.....	Seattle	Cochran, Walter M, Bus.....	Seattle
Churchill, Amy, LA.....	Seattle	Cockburn, Christine, Bus.....	Seattle
Churchward, Philip E, Sci.....	Tacoma	Codling, Jack W, Phar.....	Seattle
Chute, Esther H, Edu.....	Peshastin	Cody, Sam, LA.....	Hawaii
Chute, Lionel H, LA.....	Seattle	Coffin, Doris, Sci.....	Seattle
Cisna, Charles R, Bus.....	Bellingham	Coffin, Ruth, FA.....	Seattle
Cisna, Jack R, LA.....	Bellingham	Cohen, Analene R, LA.....	Spokane
Clague, J A, Fsh.....	Seattle	Cohen, Fannie S, Grad.....	Seattle
Clampett, Lyle, Bus.....	Seattle	Cohen, Natalie, LA.....	Seattle
Clark, Allen, LA.....	Seattle	Cohen, Rose, Libr.....	Seattle
Clark, Alvide Lee, Grad.....	Seattle	Cohn, Mildred, LA.....	Portland, Ore
Clark, A M, Engr.....	Seattle	Coit, Wilbur A, LA.....	Seattle
Clark, Beaulah Rose, Sci.....	Seattle	Coke, John H, Sci.....	Seattle
Clark, Benjamin I, Bus.....	Seattle	Colby, Allen L, Engr.....	Auburn
Clark, Calvin C, LA.....	Seattle	Colby, Wm. Harman, Bus.....	Sunnyside
Clark, Charles J, Sci.....	Kellogg, Ida	Colcock, Bentley P, Sci.....	Seattle
Clark, David P, Bus.....	Ellensburg	Cole, Adelaide, LA.....	Wellington, O.
Clark, Earl F, Edu.....	Everett	Cole, Harold C, Bus.....	Spokane
Clark, Elizabeth, FA.....	Seattle	Cole, Hawley I, Bus.....	Spokane
Clark, Evelyn G, Edu.....	Bellingham	Cole, John, Bus.....	Seattle
Clark, Franklin, Sci.....	Puyallup	Cole, Kathleen I, Sci.....	Seattle
Clark, Frank Jones, Grad.....	Seattle	Cole, Menford D, Bus.....	Spokane
Clark, James Denny, Engr.....	Seattle	Collar, Gleneth, Engr.....	Seattle
Clark, Lou Ena, LA.....	Falmira, Mo	Collard, Nelson B, LA.....	Seattle
Clark, Marian B, LA.....	Powell, Wyo	Collard, Raymond A, Bus.....	Seattle
Clark, Marion F, LA.....	Havre, Mont	Collett, Margaret, LA.....	Sidney, Mont.
Clark, Ray Donald, Engr.....	Seattle	Collins, Cecil F, Sci.....	Spokane
Clark, Rhoda W, Sci.....	Pasadena, Cal	Collins, Dorothea, LA.....	Tacoma
Clark, Robert G, LA.....	Bremerton	Collins, Edward, LA.....	Portland, Ore
Clark, J Robert, Fsh.....	Seattle	Collins, Grenold T, LA.....	Bremerton
Clark, Thomas J, Bus.....	New York City	Collins, Junius L, LA.....	Seattle
Clark, Vernice, LA.....	Seattle	Collins, Louise Jane, LA.....	Spokane
Clark, Walter E, Sci.....	Spokane	Collins, Marie, LA.....	Tacoma
Clark, William A, LA.....	Ellensburg	Collins, Mary, LA.....	Seattle
Clark, Ellen L, Bus.....	Seattle	Collins, Norman, LA.....	Pacific City
Clark, Jean Frances, LA.....	Yakima	Collins, Permina, Sci.....	Seattle
Clarkson, Charles, Bus.....	Seattle	Collins, Wallace G, Law.....	Seattle
Clarkson, John, Bus.....	Seattle	Colman, Andrew T, Bus.....	Boise, Ida
Clausen, Clifford E, FA.....	Seattle	Colman, John F, Bus.....	Boise, Ida
Clausen, Dorothy, LA.....	Seattle	Colvin, Claborn W, Bus.....	Anacortes
Clausen, Jensen C, Engr.....	Seattle	Combes, Jack F, LA.....	Hogulam
Clay, Charles F, LA.....	Gig Harbor	Combs, Harold T, Bus.....	Mt Vernon
Clayberg, Sylvester, Law.....	Seattle	Combs, Hazel A, FA.....	St Maries, Ida
Clayton, Paul W, Sci.....	Seattle	Commerce, Juanita, LA.....	Colville
Cleaman, Fred, Bus.....	Longview	Commerce, Viteaur, Sci.....	Colville
Cleave, Arthur B, Sci.....	Columbia Falls, Mt	Commet, Claire, Sci.....	Everett
Cleeland, James A, Bus.....	Seattle	Comoff, Agnes, Bus.....	Seattle
Clem, Harold E, Engr.....	Tekoa	Compton, Ann, FA.....	Seattle
Clem, Rhoman, For.....	Everett	Condon, Robert W, For.....	Seattle
Clemans, Virginia S, LA.....	Alpine	Condon, Vivien, FA.....	Seattle
Clement, H Delos, Bus.....	Granger	Cone, H M, Engr.....	Longview
Clemmer, Frank S, FA.....	Yakima	Congdon, Byron, LA.....	Gebo, Wyo
Clemons, Edward S, Eng.....	Seattle	Congdon, Shirley A, LA.....	Yakima
Clemow, Bice, LA.....	Seattle	Conger, Harry, Fsh.....	Seattle
Clendenng, Catherine B, LA.....	Seattle	Conklin, Hllah R, LA.....	Seattle
Cleveland, Dorothy B, FA.....	Seattle	Conklin, Olga Marie, Sci.....	Edmonds
Cleveland, G H, Bus.....	Vancouver	Connell, Helen K, LA.....	Aberdeen
Cleveland, Ruth A, Sci.....	Burlington	Connell, Richard E, Bus.....	Seattle
Cleveland, Walter J, Bus.....	Mt Home, Ida	Connely, Martha J, LA.....	Spokane
Clifford, Edward, LA.....	Seattle	Connick, Edwina, LA.....	Seattle
Clift, Walter F, Bus.....	Yakima	Connick, Janet G, LA.....	San Francisco Cal
Cline, Enid Helen, Sci.....	Port Orchard	Conrad, Lester S, Sic.....	Wapato
Clingan, Mason C, Bus.....	Seattle	Conrad, Warren G, LA.....	Yakima
Clingenpeel, Eva B, FA.....	Seattle	Constans, Alfred H, Engr.....	Seattle
Clingenpeel, Lillian, FA.....	Seattle	Constans, Kathryn, FA.....	Seattle
Clinton, Helen, LA.....	Shelton	Constantine, Phyllis, Sci.....	Seattle
Clist, Angus S, LA.....	Seattle	Conway, Jack, LA.....	Skagway, Alas
Clithero, Laura Mae, LA.....	Seattle	Conway, Miriam Alva, Sci.....	Pasadena, Cal
Clood, Charles W, For.....	Seattle	Cook, Charles E, LA.....	Hamilton
Cloud, George W, LA.....	Sunnyside	Cook, Dean L, Bus.....	Seattle
Clough, Jane, LA.....	Everett	Cook, Eugene H, Bus.....	Madras, Ore
Cluck, J R, LA.....	Bothell	Cook, Flo, FA.....	Anacortes
Clyde, Betty, FA.....	Seattle	Cook, George, LA.....	Seattle
Clyde, Winona, LA.....	South Bend	Cook, Marjorie, Sci.....	Seattle
Coale, Elizabeth, LA.....	Tacoma	Cook, Parker E, FA.....	Seattle
Coart, John, LA.....	Seattle	Cook, Phoebe M, FA.....	Seattle
Coats, Alfred F Jr, LA.....	Seattle	Cook, Russell O, LA.....	Chehalis
Coats, Robert, Min.....	Seattle	Cook, Willis H, LA.....	Seattle

Coombs, Howard, Sci.....	Seattle	Craven, Eleanor, Jour.....	Butte, Mont
Coons, Frances Elizabeth, LA.....	Yakima	Craven, J Dalton, Sci.....	Seattle
Cooper, Claire, Sci.....	Seattle	Craven, Portia L, Sci.....	Seattle
Cooper, Dorothy M, LA.....	Tacoma	Crawford, Clarence, Bus.....	Everett
Cooper, Edward J, Bus.....	Tacoma	Crawford, Dorothy E, Edu.....	Seattle
Cooper, Elizabeth A, FA.....	Seattle	Crawford, Hazel, Edu.....	Opportunity
Cooper, Isabel D, Grad.....	Tacoma	Crawford, Leon, LA.....	Anacortes
Cooper, Lemuel B, Engr.....	Seattle	Crawford, Leslie G, LA.....	Cheney
Cooper, Louise H, Sci.....	Seattle	Crawford, Robert A, Bus.....	Tacoma
Cooper, Margaret, Sci.....	Seattle	Crawley, Velva M, LA.....	Ritsville
Cooper, Ruth F, FA.....	Seattle	Cremer, Henry, Grad.....	Seattle
Copenhagen, Helen, Sci.....	Seattle	Crenshaw, Frances R, LA.....	Spokane
Copenhaver, Edith L, Bus.....	Seattle	Creps, Oscar L, FA.....	Seattle
Copenhaver, Helen, FA.....	Helena, Mont	Creque, Fred, LA.....	Seattle
Copple, Denton E, Bus.....	Omak	Crim, Dorothy M, Edu.....	Seattle
Corbaley, Tom B, Bus.....	Seattle	Crippen, George W, LA.....	Clearwater
Corbally, John E, Grad.....	Seattle	Croan, Marian, Sci.....	Seattle
Corbet, Clifford C, Grad.....	Seattle	Crombie, Besse, Pharm.....	Olympia
Corbett, Eleanor Jane, LA.....	Seattle	Crooks, Ruth, LA.....	Seattle
Corbett, Helen, LA.....	Walla Walla	Crose, Wallace E, Bus.....	Seattle
Corbett, Phyllis, LA.....	Dayton	Crosier, Kenneth Isham, Engr.....	Kearney, Neb
Corbin, Kenneth, Bus.....	Seattle	Cross, Marguerite, LA.....	Spokane
Corcoran, J P, Engr.....	Pierre, SD	Crothers, Genevieve, Sci.....	Aberdeen
Cornfield, Charles, FA.....	Kapowsin	Crothers, Muriel, Jour.....	Seattle
Cornue, Frank G, LA.....	Yakima	Crothers, Norma I, LA.....	Tacoma
Cornelius, Helene, LA.....	Seattle	Crow, Mary E, Sci.....	Seattle
Cornell, Cyril, Bus.....	Seattle	Crowe, George F, Engr.....	Seattle
Cornell, Marie E, FA.....	Seattle	Crowell, Robert, Engr.....	Seattle
Cornell, Virginia, FA.....	Tacoma	Crowley, Louise, Edu.....	Seattle
Cornliss, Thos, Engr.....	Tacoma	Crowley, Nellie, LA.....	Seattle
Corning, Edgar, LA.....	Seattle	Crowley, William T, Engr.....	Seattle
Cornu, Donald, Grad.....	Seattle	Crown, Martin J, Bus.....	Seattle
Cornu, Mary E, LA.....	Yakima	Croxton, Refine, FA.....	Bremerton
Corson, Jack B, Sci.....	Seattle	Crueger, Anne, LA.....	Seattle
Corson, Willis H Jr, Engr.....	Seattle	Cruikshank, Esther, LA.....	Seattle
Cortes, Rosario T, For.....	Philippines	Cruz, Enetario C, LA.....	Philippines
Cory, Vilva, Sci.....	Chehalis	Cruz, Ponciano D, Sci.....	Philippines
Cosby, Kendall, LA.....	Seattle	Cruzen, Leona, LA.....	Seattle
Coshun, Janice, LA.....	Seattle	Cubbon, Nelson K, FA.....	Bremerton
Cosman, Charles F, Bus.....	Edmonds	Cull, Cecil RC, Pharm.....	Seattle
Costantino, Rosa, FA.....	Clayton	Cull, Milda P, LA.....	Seattle
Costello, Irene A, LA.....	Enumclaw	Culley, Maxine, LA.....	Walla Walla
Cotton, Betty Sue, LA.....	Seattle	Culliton, Robert, LA.....	Seattle
Cotton, Marlon L, Pharm.....	Melbourne	Culver, Florian D, LA.....	Bellingham
Couch, Samuel, FA.....	Seattle	Culver, Mary L, Edu.....	Bellingham
Coughlin, Margaret, LA.....	Spokane	Culwell, Louise, LA.....	Seattle
Couleur, John R, Bus.....	Chicago, Ill	Cumming, Olive C, Sci.....	Graham
Couleur, Marlon D, LA.....	Chicago, Ill	Cummings, Pauline A, Bus.....	Spokane
Coulter, Peggy Ann, LA.....	Seattle	Cummins, Charles H, LA.....	Ontario, Cal
Courtwright, Ester R, Bus.....	Spokane	Cummins, Florence, LA.....	Seattle
Cover, Lila Mae, Sci.....	Entiat	Cundiff, Velda P, Grad.....	Wenatchee
Covey, B Channing, Engr.....	Seattle	Cunningham, Chester M, Bus.....	Gibson City, Ill
Cowan, Harry W, Bus.....	Seattle	Cunningham, Claude, Bus.....	Leavenworth
Cowgill, John M, Engr.....	Stellacoom	Cunningham, Robert J, Bus.....	Seattle
Cowling, Lucille, LA.....	Seattle	Curley, Maurice, Sci.....	Seattle
Cowling, Merle, LA.....	Port Angeles	Curphey, Wilta, Grad.....	Salina, Kan
Cowls, Thomas E, Engr.....	Seattle	Curran, Bertrand J, LA.....	Seattle
Cox, Allen H Jr, For.....	Seattle	Curran, Muriel, Edu.....	Seattle
Cox, Cliveden, Pharm.....	Hot Springs, Ark	Currier, Carl K, LA.....	Seattle
Cox, Robert T, LA.....	Ferndale	Currier, H Robert, Bus.....	Portland, Ore
Coy, Loraine A, LA.....	Great Falls, Mont	Curry, Dorothy M, LA.....	Seattle
Coy, Walter, FA.....	Seattle	Curry, Eula Marie, LA.....	Seattle
Coydan, Steve, Grad.....	Seattle	Curry, George B, Sci.....	Seattle
Coyle, Margaret F, LA.....	Seattle	Curry, Lynn, Bus.....	Sedro-Woolley
Craft, Carroll M, LA.....	McCleary	Curry, Ruth, LA.....	Seattle
Craig, Eva Arlys, FA.....	Seattle	Curtis, Allen D, Bus.....	Seattle
Craig, Genevieve A, Edu.....	Longview	Curtis, Elizabeth L, FA.....	Seattle
Craig, Helen Irene, LA.....	Longview	Curtis, Fred J, LA.....	Seattle
Craig, Jack C, Min.....	Seattle	Curtis, Warner, Bus.....	Granite Falls
Craig, Kennetha M, Sci.....	Seattle	Curtis, William L, Sci.....	Seattle
Cram, Edward C, Engr.....	Colfax	Cushing, Eugene G, Law.....	Vancouver
Cram, Edwin S, LA.....	Seattle	Cussac, Edmund F, Bus.....	Issaquah
Cram, Jack R, LA.....	Seattle	Cutler, Emily S, Sci.....	Vashon
Cramer, Dorothy M, LA.....	Bellevue	Cutter, Glen G, Sci.....	Seattle
Cramer, Lella Buckman, LA.....	Arlington	Cutter, Raymond T, Sci.....	Seattle
Crandell, Chas R, Engr.....	Seattle	Cutting, Judson, Bus.....	Seattle
Crandell, Charles R, Engr.....	Seattle	Cutts, Cecelia, Grad.....	Seattle
Crane, C E, Bus.....	Ellensburg	Cutts, Elmer H, LA.....	Seattle
Crane, Estare, LA.....	Seattle	Cutts, Louise, Grad.....	Seattle
Cranmer, Wm H Jr, LA.....	Denver, Colo		

Doggett, Annie R, Sci.....	Port Ludlow	Davis, Martha E, Sci.....	Inglewood, Cal
Daggett, Helen, LA.....	Seattle	Davis, Mildred A, Grad.....	Seattle
Dahlen, Beth, LA.....	Seattle	Davis, Maxine, Bus.....	Seattle
Dahlgren, Edwin H, Fsh.....	Tacoma	Davis, S McLain, LA.....	Seattle
Dahlhjemm, Geneva, FA.....	Seattle	Davis, Nathaniel C, Bus.....	Seattle
Dahlquist, Viola E, LA.....	Seattle	Davis, Norma P, Sci.....	Ridgefield
Dahlstrom, Dorothea, Sci.....	Centralia	Davis, Paul, Bus.....	Pocatello, Ida
Dalbier, Robert R, LA.....	Seattle	Davis, Quentin R, LA.....	Stanwood
Dalley, O Clarence, LA.....	Seattle	Davis R H, For.....	Anacortes
Dakserhof, Boris, Bus.....	Russia	Davis, Robert G, Bus.....	Seattle
Dalby, Milton, LA.....	Richmond Beach	Davis, Vernon Young, Engr.....	Seattle
Dale, Eugene E, Engr.....	Port Townsend	Davis, William R, Grad.	Great Falls, Mont
Dale, William Morris, Engr.....	Anacortes	Dawson, Dorothy B, LA.....	Bellingham
Dally, Harold N, Engr.....	Seattle	Dawson, John C, Edu.....	New Denver, BC
Dalquest, John E, Edu.....	Richmond Beach	Dawson, Lee R, Engr.....	Seattle
Dalquiaog, Sebastain, Grad.....	Philippines	Dawson, Orcena, LA.....	Falo Alto, Cal
Dalton, Thelma Louise, LA.....	Seattle	Day, Charles E, Engr.....	Bremerton
Daly, Pat, LA.....	Seattle	Day, Donald L, Bus.....	Seattle
Daly, William, LA.....	Seattle	Day, Frank, Pharm.....	Bremerton
Damerell, Richard, Grad.....	Earlington	Day, George H, Bus.....	Clarkston
Dando, Ruth, LA.....	Seattle	Day, John W, Law.....	Seattle
Danenbauer, George Jr, Bus.....	Maucopa, Cal	Day, Josephine E, Edu.....	Puyallup
Dang, Peter, Engr.....	Seattle	Dayton, Mary J, LA.....	Seattle
Daniel, Thelma E, FA.....	Tacoma	Deahl, Friend A, Bus.....	Seattle
Daniels, Albert S, Grad.....	Seattle	Dean, Doris Louise, LA.....	Shelton
Daniels, Courtney, LA.....	Puyallup	Dean, Florence M, Sci.....	Seattle
Danielson, Irvin S, Sci.....	Albuquerque, NM	Dean, Frederick B, Phar.....	Tacoma
Danielson, Marvin, LA.....	Lander, BC	Dean, Gordon D, Bus.....	Castle Rock
Dannemiller, Herbert A, Engr.....	Mt Vernon	Dean, Joseph P, Sci.....	Seattle
Danner, Clayton E, Engr.....	Kent	Dean, Lyman A, Sci.....	Honolulu
Danner, Eleanor J, FA.....	Seattle	Dearing, Isabelle R, LA.....	Seattle
Dannug, Leon, LA.....	Philippines	Dearing, Helen, FA.....	Seattle
Dannug, R, Engr.....	Philippines	De Beaulieu, Octavie, Sci.....	Venice, Cal
Darby, Edith B, LA.....	Spokane	DeBruyn, Frank R, Bus.....	Seattle
Darling, Katherine E, FA.....	Olympia	De Desrochers, Arthur B, LA.....	Seattle
Darr, Alice, LA.....	Tacoma	Deets, Howard, Pharm.....	Bellingham
Darragh, James B Jr, Engr.....	Seattle	Decker, Charles V, Bus.....	Seattle
Darrow, Willis T, LA.....	Seattle	Debrick, Grace, Edu.....	La Belle, Mo
Dasher, Richard R, Min.....	Seattle	DeFord, William, Bus.....	Seattle
Dassel, Walter, Pharm.....	Langley	De Freece, Lyman, Sci.....	Sidney, Ia
Daubenspeck, Eloise, FA.....	Seattle	De Freest, Grace, LA.....	Honolulu
Davenport, Noah C, Grad.....	Seattle	De Gabriele, Eugene M, LA.....	Roslyn
David, Genevieve, LA.....	Seattle	de Grasse, Robert V, Engr.....	Wenatchee
Davidson, Julius, Bus.....	Blaine	DeGarmo, E Paul, Engr.....	Seattle
Daverin, Lyle, Bus.....	Yakima	De Gray, Cullen J, Sci.....	Seattle
Davidson, Loren C Jr, LA.....	Aberdeen	de la Cuesta, Bernardo, Min.....	Philippines
Davidson, Margaret, LA.....	Seattle	de la Cuesta, Mamerto, Sci.....	Philippines
Davidson, Violette, FA.....	Seattle	Delaney, John R, Sci.....	
Davidson, Virginia O, FA.....	Seattle	Delanty, William H, Bus.....	Aberdeen
Davidson, William M, LA.....	Seattle	DeLaurenti, Dominic, Bus.....	Renton
Davie, George F, Law.....	Tacoma	DeLaurenti, John, Bus.....	Renton
Davies, Anne, Grad.....	Carbonado	Dellar, Helen, LA.....	Seattle
Davies, Arwin, Engr.....	Seattle	De Lisle, Basil Raul, Bus.....	Seattle
Davies, Frances I, Bus.....	Seattle	Dellwo, Fred, Fah.....	Tacoma
Davies, Robert A, Bus.....	Puyallup	Dalmas, Toney, LA.....	Sedro Woolley
Davin, Jackson, Bus.....	Walla Walla	De Long, Edyth, Edu.....	Seattle
Davin, Virgil, LA.....	Walla Walla	De Mille, C Richard, LA.....	Seattle
Davis, Coleman Laura, LA.....	Seattle	Deming, Meryl V, Grad.....	Seattle
Davis, C Warren, LA.....	Seattle	Demoss, Esther, LA.....	Seattle
Davis, Donald, Bus.....	Seattle	Dempster, Lillian J, LA.....	Black Diamond
Davis, Dorothy Alice, LA.....	Seattle	Denhof, Sherlie P, Bus.....	Chehalis
Davis, Egbert, Bus.....	Seattle	De Nise, Dwight D, Engr.....	Seattle
Davis, Elwood C, Grad.....	Anacortes	Denison, John P, Sci.....	Seattle
Davis, Emily, Sci.....	Seattle	Denman, Leslie W, LA.....	Seattle
Davis, M. Farnham, Phar.....	Seattle	Dennis, Avis, Engr.....	Anaconda, Mont
Davis, Fay Charlotte, FA.....	Seattle	Dennis, Harold, Engr.....	Seattle
Davis, Frank Leslie, Bus.....	Seattle	Dennis, Kenneth E F, Bus.....	Deer Lodge, Mont
Davis, George H, FA.....	Boise, Ida	Dennis, Melvin, Pharm.....	Seattle
Davis, George S, LA.....	Donald	Dennis, Roy G, LA.....	Longview
Davis, Harvey, Law.....	Wenatchee	Dennis, Ruth A, LA.....	Spokane
Davis, Harvey N, Bus.....	Boise, Ida	Denny, Harry, LA.....	Spokane
Davis, Irene, LA.....	Seattle	Denny, Harold M, For.....	Auburn
Davis, Jack Leonard, LA.....	Portland, Ore	Denny, Marion K, FA.....	Seattle
Davis, Howard S, Grad.....	Outcrop, Pa	Dent, Phyllis E, FA.....	Seattle
Davis, John D, LA.....	Alderwood Manor	DePuy, Hiram, Engr.....	Tacoma
Davis, Kenneth, LA.....	Denver, Colo	Derham, Helen E Dahl, Bus.....	Seattle
Davis, Lenna Gladys, LA.....	Lewisstown, Mont	Dermond, Elizabeth, LA.....	Seattle
Davis, Lilly May, FA.....	Kirkland	Dernberger, Roy G, FA.....	Seattle
Davis, Lydamae, LA.....	Seattle	Derrah, Edward, Edu.....	Seattle
Davis, Manimo Wilson, LA.....	Seattle	DeRuy, Norvelle R, Bus.....	Crawford, Kan

DeSellem, John B, For.....	Everett
DeSerksy, Homer J, Engr.....	Seattle
Des Forges, Hercules A, Bus.....	Miles City, Mont
DeSilvia, Ernest R, For.....	Seattle
De Soto, Alex, Edu.....	Seattle
De Soto, Ruthe, LA.....	Seattle
Devers, De Ette, Grad.....	Seattle
Devers, Dorothy M, Bus.....	Seattle
De Vick, Agnes M, Bus.....	Seattle
deVille, Pierre J E, LA.....	Cordova, Alaska
Dewar, Warren L, LA.....	Manette
Dewar, D William, Bus.....	Manette
Dewey, Margaretha M, LA.....	Seattle
DeWitt, Jewel T, LA.....	Seattle
DeWitt, Ruth E, FA.....	Seattle
Dexter, Glenn D, LA.....	Seattle
DeXarmon, Ada L, Edu.....	Seattle
Dayette, Catherine, LA.....	Seattle
Diamond, Joe, Bus.....	Seattle
Dick, Gordon W, LA.....	Seattle
Dicke, Virginia B, FA.....	Seattle
Dicken, Howard, Engr.....	Seattle
Dickerman, Frances Lucile, FA.....	Seattle
Dickerson, Jane, LA.....	San Jose, Cal
Dickey, Miriam, LA.....	Missoula, Mont
Dickinson, George E, Min.....	Seattle
Dickinson, Helen, LA.....	Seattle
Dickinson, Kenneth, Engr.....	Seattle
Dickinson, L W, Sci.....	Seattle
Dickson, Thelma, LA.....	Riverside
Dickson, William J, Grad.....	Sedro Woolley
Diem, Virginia, FA.....	Seattle
Dier, Fred, Engr.....	Seattle
Diffenbacher, Dorothy I, Edu.....	Spokane
Diffenbacher, Wm, LA.....	Spokane
Dignon, Robert E, Bus.....	Seattle
Dike, Dermitt, Engr.....	Seattle
Dike, James A, Fsh.....	Seattle
Dike, Theodore, Engr.....	Seattle
Dill, F Ross, Bus.....	Seattle
Dilley, Marjorie Ruth, Grad.....	Seattle
Dilling, Helen Mae, LA.....	Seattle
Dillingham, Walter H, Bus.....	Honolulu
Dillon, Katherine B, LA.....	Seattle
Dillon, Sue, LA.....	Seattle
Dills, Leslie, Law.....	Yakima
DiLuck, Elso B, FA.....	Seattle
Dilworth, Richard L, Bus.....	Seattle
Dimalanta, Fortunato A, Bus.....	Philippines
Dingle, John H, Pharm.....	Seattle
Dingley, Henrietta, LA.....	Seattle
Dingwall, Archie, LA.....	Seattle
Dirks, Clarence, LA.....	Woodrife, Cal
Dishnow, Jay, LA.....	Seattle
Dishnow, Sylvia, LA.....	Seattle
Disler, Marie, LA.....	Seattle
Dittlevson, Loren W, LA.....	Opportunity
Ditter, Bernadine, LA.....	Yakima
Ditter, Florence, LA.....	Seattle
Ditty, Margaret, LA.....	Bellevue
Divine, Andrew C, Engr.....	Vancouver
Dix, Florence, Sci.....	Seattle
Dixon, Gordon A, FA.....	Seattle
Dixon, Roger R, Sci.....	Seattle
Dixon, Wesley N, Fsh.....	Battle Ground
Doan, Donald J, Sci.....	Seattle
Dobrovolsky, A N, Engr.....	Seattle
Dobrin, Bettina Mae, FA.....	Seattle
Dobson, John W, LA.....	Renton
Dodds, Arthur, FA.....	Seattle
Dodd, Gordon B, Law.....	White Swan
Dodds, Dorothy, LA.....	Seattle
Dodds, Gordon A, Sci.....	Seattle
Dodson, Eleanor, LA.....	Bellingham
Dodgson, Frances E, LA.....	Seattle
Dodson, James M, Bus.....	Seattle
Dodson, Perry, Engr.....	Burlington
Doe, Dudley A, LA.....	Aloha
Doernbecher, Dorothy, LA.....	Seattle
Doescher, Minnie M, Pharm.....	Yakima
Doherty, Fred B, Engr.....	Seattle
Dohm, Dorothy G, LA.....	Olympia
Dohm, Phyllis, FA.....	Olympia
Dol, Hanoyo, Sci.....	Seattle
Dol, Mary Teruko, Sci.....	Seattle
Dol, Minari, Engr.....	Seattle
Dolphin, John J, Law.....	Seattle
Domingo, Leopoldo S, Engr.....	Philippines
Domingo, Liberato S, Edu.....	Philippines
Donahoe, Robert M, LA.....	Chehalis
Donahue, Marion, LA.....	Seattle
Donner, N Macken, Sci.....	Burlington
Donohue, Douglas, Engr.....	Seattle
Donovan, Clyde A, LA.....	Battle Ground
Doollittle, Joseph L, LA.....	Snohomish
Doran, Anne Murray, Edu.....	Seattle
Doran, Marjory K, Sci.....	Burlington
Dorman, Clifford H, Engr.....	Camas
Dormann, Helen M, Sci.....	Seattle
Dorn, Douglas A, LA.....	Seattle
Dorrance, Margaret, LA.....	Seattle
Dorris, Anna T, LA.....	Seattle
Dorris, Catherine E, LA.....	Portland, Ore
Dorris, William W F, Bus.....	Seattle
Dorsett, Tracy K, Engr.....	Coolidge, Tex
Dorsey, David T, LA.....	Waterville
Dorsey, Thomas, LA.....	White Salmon
Doud, Warren D, LA.....	Davenport, Ia
Douds, Penelope, LA.....	Seattle
Dougherty, Elizabeth, LA.....	Seattle
Douglas, Foster, LA.....	Wapato
Douglas, Geo S, Engr.....	Seattle
Douglas, Helen Calhoun, FA.....	Seattle
Douglas, James, Bus.....	Seattle
Douglas, Robert M, Bus.....	Seattle
Douglass, Don D, Bus.....	Pasco
Douglans, Marjorie G, FA.....	Aberdeen
Doumani, Chas, Sci.....	Seattle
Doumit, Mitchell, Law.....	Cathlamet
Doumit, Rose, LA.....	Cathlamet
Dow, Gerald, LA.....	Oakland, Cal
Dow, Preb, Engr.....	Sunnyside
Dow, Wilbur, E Jr, Law.....	Seattle
Dowd, Dorothy M, Bus.....	Tacoma
Dowd, W Russell, LA.....	Tacoma
Dowler, Dorothy, LA.....	Seattle
Downer, G B, Engr.....	Kersey, Colo
Downle, Grace, LA.....	Seattle
Downle, Charles A, Bus.....	Seattle
Downle, John B, Engr.....	Seattle
Downle, Grace, LA.....	Seattle
Downing, Evelyn, LA.....	Mt Vernon
Dowty, Dorothea, Edu.....	Starbuck
Doyle, Alyce Ann, Sci.....	Seattle
Doyle, John W, Sci.....	Spokane
Doyle, Mary Margaret, LA.....	Bellingham
Doyle, Thomas C, Engr.....	Seattle
Drake, Betty Dolores, LA.....	Seattle
Drake, Fenton, Fsh.....	Seattle
Drake, Francis E, Bus.....	Yakima
Drake, George M, LA.....	Seattle
Drake, Geraldine C, Edu.....	Wenatchee
Drake, Helen E, FA.....	Seattle
Drake, James D L, For.....	New York, NY
Drake, Lee Joyner, LA.....	Seattle
Drake, F Lucille, FA.....	Fall City
Drake, Oscar, Engr.....	Bellingham
Drake, Virginia, LA.....	Long Beach, Cal
Draper, Wm, Fsh.....	Seattle
Draper, Dorothy E, Bus.....	Seattle
Draper, R Irving, For.....	Rawlins, Wyo
Dray, Edward Alson, Fsh.....	Auburn
Dray, Monte, Bus.....	Auburn
Drees, Kathryn June, LA.....	Seattle
Dressler, Mildred, LA.....	Salt Lake City
Dreisbach, Herbert F, Engr.....	Oakdale, Cal
Dremolski, F J, For.....	Coupeville
Dremolski, L A, For.....	Coupeville
Drew, Demerice Ebbley, Grad.....	Seattle
Drew, John T, Bus.....	Seattle

Drewfs, Helen L, LA.....	Camas	Eaton, Edwin V, Sci.....	Yacolt
Driscoll, Arthur J, LA.....	Yakima	Eaton, Florence, LA.....	Seattle
Driscoll, Edwin U, Law.....	Seattle	Eaton, Margaret, FA.....	Seattle
Drumheller, James, LA.....	Seattle	Ebel, Katharine, LA.....	Seattle
Drumheller, Martha, FA.....	Seattle	Ebbinghouse, Sherman F, LA.....	Seattle
Drumheller, Tom, LA.....	Walla Walla	Eccles, David W, LA.....	Spokane
Drury, Don R, Engr.....	Seattle	Echols, Albert J, Bus.....	Seattle
Drury, Omer C, Engr.....	Seattle	Eckert, Donald M, LA.....	Seattle
Dryden, Jane Eyster, Bus.....	Seattle	Eckmann, Ansel C, Law.....	Seattle
Dryden, M Dale, Bus.....	Seattle	Eddy, Marguerite V, LA.....	Seattle
Du Bois, Margaret S, FA.....	Seattle	Edelen, Cornelia A, LA.....	Seattle
DuBois, Jeanette, LA.....	Vancouver	Edelson, Mary, LA.....	Spokane
Dudley, Dorothy H, Sci.....	Caldwell	Ederer, Elizabeth J, FA.....	Seattle
Dudley, Stowell B, Jr, Bus.....	Caldwell	Edline, Dorothy L, Bus.....	Seattle
Dudley, Robert L, LA.....	Aberdeen	Edmondson, Dorothy, Jour.....	Santa Barbara, Cal
Duell, Mildred M, LA.....	Chehalis	Edmondson, Ted, Bus.....	Denver, Colo
Duett, Chester L, Bus.....	Seattle	Edris, Ruth L, LA.....	Deland, Fla
Duff, Alec, LA.....	Seattle	Edstrom, Edward J, Mines.....	Portland, Ore
Duff, Edmund E, Engr.....	Renton	Edwards, Elizabeth M, Grad.....	Seattle
Duff, Marlan L, Sci.....	Renton	Edwards, Geniana R, Bus.....	Seattle
Duffy, Edwin H, LA.....	Seattle	Edwards, Gertrude D, LA.....	Seattle
Duffy, Harold J Jr, Fsh.....	Seattle	Edwards, Frank, Jr, LA.....	Seattle
Duggan, Fred W, Engr.....	Spokane	Edwards, James B, Engr.....	Seattle
Duke, Frances E, Sci.....	Seattle	Edwards, Pauline K, LA.....	Seattle
Duke, Glen A, Engr.....	Seattle	Edwards, Wilburn, Bus.....	Oakesdale
Dull, Dorothy Mae, Sci.....	Seattle	Edwards, William W, LA.....	Seattle
Dumo, Mariano E, LA.....	Philippines	Edwardsen, John, Bus.....	Tacoma
Dun, Kwel, Grad.....	China	Efinger, Wm L, Sci.....	Seattle
Dunn, Edward B, Bus.....	Seattle	Egan, Granville T, Law.....	Seattle
Duncan, Anna M V, LA.....	Geyser, Mont	Eggen, Edmond W, Bus.....	Dundee, Ill
Duncan, Chas A, Edu.....	Seattle	Ehlinger, Emily M, GA.....	Spokane
Duncan, Dorothy Jeanne, Sci.....	Seattle	Ehmssen, Temple V, Bus.....	Seattle
Duncan, Florence, Sci.....	Spokane	Ehrhardt, Dorothy C, LA.....	Seattle
Duncan, John A Jr, Sci.....	Seattle	Ehrlich, Mitchell, Sci.....	Seattle
Duncan, Margaret M, Grad.....	Seattle	Ehrlichman, Hannah E, LA.....	Seattle
Duncan, Marian, FA.....	Seattle	Eib, Gertrude R, LA.....	Seattle
Duncan, Marion A, Engr.....	Seattle	Eldie, Gudrun C, LA.....	Seattle
Dunham, Earline, FA.....	Seattle	Eiffert, Dorothy, FA.....	Seattle
Dunham, Margery, Law.....	Seattle	Eiffert, Opal Jean, Sci.....	Seattle
Dunks, William A, Bus.....	Butte, Mont	Eiffert, Ray, Bus.....	Seattle
Dunlap, Margaret A, LA.....	Pe Ell	Eigeman, Frank, Bus.....	Seattle
Dunn, Jeannette G, FA.....	Seattle	Eikenbary, Edna, Sci.....	Seattle
Dunn, Lawrence M, Sci.....	Seattle	Ekorn, Arthur, LA.....	Crosby, Minn
Dunn, Lucy, FA.....	Seattle	Eklund, Esther J, LA.....	Hoquiam
Dunn, Madge, LA.....	Tacoma	Elam, Daniel W, LA.....	Spokane
Dunnells, Norman A, Engr.....	Gig Harbor	Elam, James L Jr, Bus.....	Spokane
Dunning, Guy E, Law.....	Seattle	Elbert, Josephine, LA.....	Sedro Woolley
Dunseath, Clifford L, Bus.....	Tacoma	Elbert, Paul, LA.....	Sedro Woolley
DuPuis, Fred, LA.....	Seattle	Elder, Marian U, LA.....	Seattle
Durand, Margaret, LA.....	Everett	Eldridge, Eugene S, LA.....	Seattle
d'Urbal, John A, Grad.....	Spokane	Eldridge, Una, Sci.....	Portland, Ore
Durham, Howard E, LA.....	Bellingham	Ellasen, Eliert J, Engr.....	Seattle
Durkee, Kenneth Melvin, Engr.....	Seattle	Ellerbeck, Karl H, Engr.....	Seattle
Durning, Katherine, FA.....	Seattle	Ellington, Evelyn, FA.....	Des Moines
Duryee, Schuyler L, Engr.....	Seattle	Ellington, Maxine, LA.....	Chehalis
Dusenberry, Inez M, LA.....	Bozeman, Mont	Elliott, Byler, Bus.....	Waterville
Dutch, George M, LA.....	Seattle	Elliott, Gay H, LA.....	Kent
Dutch, Lawrence Wm, Bus.....	Seattle	Elliott, Helen, LA.....	Seattle
Dwight, Hubert, FA.....	Puyallup	Elliott, Kathryn A J, FA.....	Seattle
Dwyer, Mary A, LA.....	Rosalia	Ellis, Dorothy, Sci.....	Ontario
Dyer, Eleanor, Bus.....	Seattle	Ellis, Grace M, FA.....	Waterville
Dyer, Hamilton M, Bus.....	Seattle	Ellis, Lucile E, FA.....	Seattle
Dyer, Merritt G, Engr.....	Seattle	Ellis, Muriel S, LA.....	Seattle
Dykeman, John K, LA.....	Seattle	Ellis, Paul G, For.....	Everett
Dykeman, Lola, Sci.....	Seattle	Ellis, Ray Paul, FA.....	Seattle
		Ellis, Ward, FA.....	Seattle
		Elmore, Mary, LA.....	Seattle
Eastman, Austin V, Grad.....	Seattle	Elsdon, Harold J, LA.....	Spokane
Eager, Lawrence C, Sci.....	Seattle	Elwell, Fred H, Fsh.....	Kelso
Eagleson, Margaret, Grad.....	Seattle	Elwell, Margaret, LA.....	Olympia
Earle, Melvin M, Bus.....	Everett	Ely Marguerite, I.A.....	Seattle
Easter, Charles W, LA.....	Seattle	Embree, Mary John, LA.....	Seattle
Easter, Edward, LA.....	Seattle	Emery, Margaret Olive, LA.....	Napavine
Easterly, Clyde M, Bus.....	Aberdeen	Emig, John Wm, Engr.....	Leavenworth
Eastman Charlotte E, Grad.....	Vancouver, BC	Enborn, Arthur W, LA.....	Wapato
Eastman, David, Engr.....	Kirkland	Enderlin, Osborne E, LA.....	Vancouver
Eastman, Fred S, Grad.....	Kirkland	Endres, Teresa, Edu.....	Ash
Eastwood, Louise, LA.....	Seattle	Engbrecht, Elsie M, Sci.....	Fessenden, ND
Eastwood, Mary B, FA.....	Seattle	Eng, Arthur G, Bus.....	Seattle
Eaton, Alden L, Sci.....	Seattle	Eng, Oscar C, LA.....	Seattle

Eng, R T, Sci.....	Seattle
Engberg, Ralph C, Sci.....	Seattle
Engdahl, Don E, Bus.....	Spokane
Engdahl, Helen, LA.....	Spokane
Engdahl, Karl E, Bus.....	Spokane
Engel, Ernest D, Engr.....	Seattle
Engel, Helen, LA.....	Seattle
Engel, Vera E, FA.....	Seattle
Engle, Melvin, LA.....	Seattle
Engle, Virginia, Sci.....	Seattle
Engler, James G, LA.....	Seattle
Englund, Adoll Burt, Law.....	Enumclaw
Ennis, Mercedes, Grad.....	Seattle
Enstone, Harry, Grad.....	Seattle
Engstrom, Gustaf Adolph, FA.....	Seattle
Engstrom, Hilding, Fus.....	Clinton
Engstrom, Stanley T, Engr.....	Everett
Engvolsen, O B, For.....	Port Townsend
Epplen, Dorothy, LA.....	Seattle
Epstein, Arthur, Sci.....	Seattle
Epstein, Isadore, LA.....	Tacoma
Epstein, Jesse, LA.....	Great Falls, Mont
Erskine, Josephine R, LA.....	Seattle
Erdman, Natalie, Grad.....	Salem, Ore
Erdmann, Thomas E, LA.....	Hoquiam
Eriksen, Solveig N, LA.....	Seattle
Erickson, Alfonso E, Bus.....	Seattle
Erickson, Allen L, Bus.....	Tukwila
Erickson, Anita, FA.....	Seattle
Erickson, Gus, Min.....	Seattle
Erickson, H M, Sci.....	Seattle
Erickson, Hildur J, LA.....	Duluth, Minn
Erickson, June L, LA.....	Seattle
Erickson, Leonard L, Bus.....	Seattle
Erickson, Leonard, Bus.....	Seattle
Erickson, Mary Elizabeth, LA.....	Marysville
Erickson, Phil K, Jour.....	Seattle
Erickson, Ralph S, Engr.....	Everett
Erickson, Roosevelt, LA.....	Everett
Erlenborn, Franz J, Bus.....	Seattle
Ernst, Eleanor, LA.....	Seattle
Erspamer, Gretchen M, FA.....	Seattle
Ervin, E Wells, Bus.....	Anchorage, Alaska
Erving, Elizabeth T, Sci.....	Seattle
Erving, Lila, Bus.....	Winlock
Erving, Taina, Bus.....	Winlock
Eteab, Carmelita, LA.....	Tacoma
Estepa, Sotero, Grad.....	Philippines
Estes, Dorothy, FA.....	Seattle
Estepy, Emily S, LA.....	Mercer Island
Estill, Robert, LA.....	Seattle
Eubanks, Wallace D, Sci.....	Camas
Euchner, Vesta, LA.....	Seattle
Euler, Donald J, Engr.....	Seattle
Evans, Alice Louise, Grad.....	Edmonds
Evans, Blodwen E, LA.....	Seattle
Evans, Clementine, Pharm.....	Seattle
Evans, Dorothy C, LA.....	Seattle
Evans, Dorothy Leora, FA.....	Seattle
Evans, Frances E, LA.....	Bossburg
Evans, Jane M, LA.....	Seattle
Evans, Jeannette S, FA.....	Tacoma
Evans, Lacey H, Grad.....	Vancouver, BC
Evans, Margaret V, FA.....	Seattle
Evans, Marie J, Grad.....	Seattle
Evans, Milton J, Bus.....	Seattle
Evans, Robert G, Engr.....	Grandview
Evans, Rogert N, For.....	Kapowsin
Evans, Theodore W, Grad.....	Tacoma
Evenson, Bernard, Sci.....	Aberdeen
Evenson, Ella Clarissa, LA.....	Seattle
Evenson, Justin C, Bus.....	Clatskanie, Ore
Evenson, W E, Law.....	Seattle
Everett, Elizabeth, FA.....	Seattle
Everett, Elizabeth R, FA.....	Seattle
Everett, Pauline, Edu.....	Spokane
Evich, John F, LA.....	Bellingham
Ewing, Elsie, LA.....	Cascade, Mont
Ewing, Frank G, LA.....	Seattle
Eyre, Ella, LA.....	Port Angeles
Faget, A M, LA.....	Los Angeles, Cal
Fagan, Lillian, Bus.....	Portland, Ore
Fahey, Florence M, FA.....	Seattle
Fahey, Phillip B, LA.....	Seattle
Fairall, James, Fsh.....	Seattle
Fairbanks, Eugenia, Edu.....	Bellingham
Fairchild, Andrew, Engr.....	Goshen, Ind
Fairchild, Arthur, LA.....	Raymond
Falconer, Maynard C, Engr.....	Tacoma
Falconer, Philip, Engr.....	Ketchikan, Alaska
Falconer, Robert, Engr.....	Ketchikan, Alaska
Falk, Bessie H, LA.....	Boise, Ida
Falk, David, Bus.....	Boise, Ida
Falk, Ernest, Law.....	Seattle
Falk, Julius B, LA.....	Seattle
Fall, Ellis F, Bus.....	Seattle
Faller, Howard E, Bus.....	Seattle
Fang, Tsung-Han, Bus.....	China
Fanselow, Fern, Edu.....	Perry, Ia
Farber, Irving, LA.....	Tacoma
Faris, Frank Bus.....	Seattle
Farish, Caryl, FA.....	Seattle
Farish, Henry G, Bus.....	Vancouver, BC
Farley, Ross E, FA.....	Seattle
Farmer, Dorothea, LA.....	Seattle
Farmin, Ellamae, LA.....	Sandpoint, Ida
Farnham, Ruth, LA.....	Spokane
Farquharson, F Burt, Grad.....	Seattle
Farquharson, Marion, LA.....	Seattle
Farrar, Elizabeth, LA.....	Seattle
Farrar, Newell, LA.....	Seattle
Farrell, Glenn M, Bus.....	Camas
Farrell, Robt S Jr, Law.....	Portland, Ore
Farrer, Edith L, Grad.....	Caldwell, Ida
Farrington, Elizabeth L, FA.....	Seattle
Faulkner, Christel, LA.....	Silver Bow, Mont
Faulkner, Mary Margaret, LA.....	Seattle
Faust, Marian, LA.....	Ellensburg
Faust, W J, LA.....	Great Falls, Mont
Fawcett, John H, LA.....	Rochester, Minn
Fee, Lewis H, Grad.....	Seattle
Felch, George A, Grad.....	Spokane
Felty, Anne Caroline, Edu.....	Granite Falls, Minn
Felton, Margaret, Sci.....	Seattle
Fellows, Hollis A, LA.....	Long Beach, Cal
Felmley, Marion, Bus.....	Seattle
Feng, Yukon, Bus.....	China
Fenner, Leonard F, Fsh.....	Seattle
Fenter, William, Engr.....	Butte, Mont
Fenton, Nan, LA.....	Seattle
Ferch, Leona B, Sci.....	Seattle
Ferguson, Ealer T, Bus.....	Seattle
Ferguson, Gordon, Phar.....	Everett
Ferguson, Jack, For.....	Inglewood, Cal
Ferguson, Roy, Bus.....	Alderwood Manor
Ferguson, Ronald A, Pharm.....	Yakima
Ferguson, William H, LA.....	Bellingham
Ferrell, John V, LA.....	Skrykomish
Ferrera, Fernando, Sci.....	Philippines
Ferrier, Bernice, LA.....	Raymond
Ferrier, Gladys, LA.....	Aberdeen
Ferrier, Marion, Sci.....	Aberdeen
Ferris, Donald, LA.....	Yakima
Ferris, Ruth M, LA.....	Seattle
Ferris, Walter Forrest, Engr.....	Lake Stevens
Ferriss, Marion O, Sci.....	Seattle
Ferru, Edna Mae, FA.....	Seattle
Fery, Carl S, For.....	Seattle
Fessenmaier, Athlyeen, LA.....	Seattle
Fessenmaier, Virgil L, Bus.....	Seattle
Fey, Henry J, Engr.....	Port Angeles
Fey, John Carl, Engr.....	Port Angeles
Fickel, Doris, LA.....	Everett
Fickle, Helen F, FA.....	Seattle
Fickel, Ruth E, Sci.....	Everett
Field, Gilbert C, FA.....	Seattle
Field, Helen S, LA.....	Leavenworth
Field, Mary Louise, FA.....	Centralia
Field, Mary McIlwaine, LA.....	Seattle
Field, Ruth B, LA.....	Leavenworth

Field, W P. Engr.....	Seattle
Fields, Cecil Robt, Pharm.....	Seattle
Fields, Elsie, LA.....	Seattle
Fields, Orville B, LA.....	Kelso
Findlay, Dorothy, Sci.....	Seattle
Findlay, Mary Jocelyn, FA.....	Seattle
Fine, Rose, LA.....	Seattle
Finlon, Raymond J, LA.....	Seattle
Floved, Martha E, LA.....	Mt Vernon
Fischer, Louis, Pharm.....	Seattle
Fiset, Louise, LA.....	Seattle
Fish, Byron, LA.....	Seattle
Fish, Fred, Bus.....	Pullman
Fish, Vynor Starr, LA.....	Ellensburg
Fisher, Dorothy S, FA.....	Glendale, Mont
Fisher, Folsom, LA.....	Seattle
Fisher, Grace D H, Edu.....	Jeuau, Alaska
Fisher, Grace H, Sci.....	Seattle
Fisher, Harry, Bus.....	Seattle
Fisher, Ken R, LA.....	Seattle
Fisher, Maier T, Bus.....	Edwall
Fisher, Margaret, Edu.....	Cashmere
Fisher, Mary Elizabeth, LA.....	Seattle
Fisher, Paul M, FA.....	Denver, Colo
Fisher, Ralph W, LA.....	Vader
Fisher, Thomas H, LA.....	Auburn
Fisk, Roy T, Sci.....	Prosser
Fisken, Ruth K, Edu.....	Spokane
Fitch, Arthur L, Grad.....	Paxton, Mont
Fitch, H T, Law.....	Tacoma
Fitch, Susan, LA.....	Tacoma
Fitz, Olive D, LA.....	Seattle
Fitzgerald, Florence H, Sci.....	Seattle
FitzGerald, John, Jour.....	Seattle
Fitzgerald, Louis J, Bus.....	Vancouver
Fitzgerald, Margaret, LA.....	Auburn
Fitzgerald, Wayne A, Bus.....	Spokane
Fitzmaurice, Bertrand T, Pharm.....	Seattle
Fitzpatrick, Dorothy, Bus.....	Seattle
Fitzsimmons, Jean F, LA.....	Seattle
Fitzsimmons, Mary, Edu.....	Vancouver
Fjarlie, Aagot Jeannette, LA.....	Beaver
Flagler, C W, Sci.....	Spokane
Flaherty, Maurice Gregory, Edu.....	Seattle
Flanagan, George C, For.....	Seattle
Flanagan, John C, Engr.....	Seattle
Flanders, Robert L, LA.....	Seattle
Flanders, Winona, LA.....	Seattle
Flanagan, Ada Mae, LA.....	Seattle
Flanigan, Margaret, Bus.....	Seattle
Flannigan, Dorothy, LA.....	Seattle
Flatebo, Helga, FA.....	Seattle
Fleisher, Ruth, LA.....	Seattle
Fleming, Alexander, Engr.....	Seattle
Fleming, Glenn B, Edu.....	Friday Harbor
Fleming, Robert E, LA.....	Seattle
Fleming, Sam E Jr, LA.....	Seattle
Fletcher, Arlea, LA.....	Seattle
Fletcher, Chas M, Engr.....	Chewelah
Fletcher, James R, Engr.....	Seattle
Fletcher, James V, LA.....	Seattle
Fligg, Claude M, Engr.....	Wasco, Ore
Flint, Dorothy J, Sci.....	Seattle
Flint, Einar, Sci.....	Seattle
Flint, Floyd, LA.....	Seattle
Floberg, Victor A, Engr.....	Tacoma
Flock, Claude E, Sci.....	Seattle
Flood, George E, Law.....	Seattle
Flood, William H, LA.....	Tacoma
Floodman, Milton N, LA.....	Wahco, Nebr
Flodquist, Edwin, Engr.....	Bremerton
Florence, Eldo, A, Pharm.....	Hoquiam
Floresca, Pedro R, LA.....	Philippines
Flournoy, Al G, Fsh.....	Seattle
Floyd, P Raymond, Bus.....	Dayton
Flyzik, Kathleen, LA.....	Seattle
Fogarty, Mary Ann, FA.....	Everett
Fohn, Walter F, LA.....	Seattle
Folda, Florence, Grad.....	Seattle
Follett, Floyd K, FA.....	Seattle
Folsom, Frances L, FA.....	Seattle
Folsom, Morrill F, LA.....	Lakota Beach
Folts, Frances E, Sci.....	Seattle
Fonscier, Guillermo C, LA.....	Philippines
Fones, Norman, Bus.....	Seattle
Forbes, Evelyn G, Sci.....	Seattle
Force, Florence Hislop, LA.....	Seattle
Ford, Catherine, FA.....	Seattle
Ford, Edwin G, Jr, LA.....	Seattle
Ford, T Foster, Engr.....	Tacoma
Fordon, John V, Bus.....	Seattle
Fordyce, Philip, LA.....	Seattle
Foresman, Caroline, Grad.....	Seattle
Foresman, Emily T, Grad.....	Yakima
Forman, Albert, Bus.....	Spokane
Formoe, Clarence, Engr.....	Seattle
Forner, Margaret, LA.....	Seattle
Forner, W Norman, Fsh.....	Granite Falls
Forney, Cordella, FA.....	Longview
Forrester, John K, Law.....	Seattle
Forrester, Louise, Grad.....	Redmond
Forrey, Veva, Edu.....	Soup Lake
Fosse, Nelda J, Bus.....	Stevenson
Fosseen, Neal, Law.....	Spokane
Foster, Albert, Bus.....	Tacoma
Foster, David A, FA.....	Richmond Beach
Foster, David T, Fsh.....	Libby, Mont
Foster, Elizabeth J, LA.....	Cathlamet
Foster, Frank K, Grad.....	Seattle
Foster, Helen, LA.....	Seattle
Foster, Marie E, LA.....	Everett
Foster, Ralph G, Engr.....	Seattle
Foster, Robert A, Bus.....	Olympia
Foster, F Stuart, LA.....	Yakima
Foster, William T, Bus.....	Seattle
Foster, Wilma, LA.....	Bellevue
Pournier, Paul, LA.....	Skykomish
Pouts, Marcla, Sci.....	Seattle
Pouts, Margaret, Sci.....	Seattle
Fovargue, Harbert, LA.....	Aberdeen
Fowler, Earl F, LA.....	Seattle
Fowler, Franklin W, Grad.....	Seattle
Fowler, Maxine E, Sci.....	Coupeville
Fowler, Maxine Elliott, Sci.....	Coupeville
Fowler, Wallace E, Bus.....	Tacoma
Fowler, Wm Hood, LA.....	Seattle
Fox, Bernard A, Bus.....	Spokane
Fox, Joseph S, LA.....	Seattle
Fox, Kenneth W, Sci.....	Tokio, ND
Fox, William J, FA.....	Seattle
Fragen, Nathan, Engr.....	Seattle
Fraleigh, Mabel Clare, LA.....	Portland, Ore
Francis, Jack, LA.....	Seattle
Francisco, Leland I, Engr.....	Chehalis
Franck, Elizabeth, LA.....	Spokane
Franco, Maurice J, LA.....	Seattle
Franke, Elizabeth L, LA.....	Ralston
Franklin, Alice V, Grad.....	Seattle
Franklin, Benjamin, Sci.....	Seattle
Franklin, Calvin, Engr.....	Fairbanks, Alaska
Franklin, Ralph E, LA.....	Seattle
Franklin, Ruth Mary, Sci.....	Hoquiam
Franks, Sarah M, FA.....	Philippines
Fraser, John W, FA.....	Seattle
Fraser, Mary Bus.....	Seattle
Fraser, Mildred, Edu.....	Davenport
Frayn, Mort, LA.....	Seattle
Frazier, Margaret G, Bus.....	Tacoma
Frazier, James W, LA.....	Seattle
Frazier, Wm H, Grad.....	Seattle
Frederick, Paul, Bus.....	Seattle
Freeburn, Lawrence, Fsh.....	Seattle
Freeburn, William L, LA.....	Seattle
Freed, Joseph E, Bus.....	Seattle
Freed, William J, Grad.....	Parkland
Freeman, Abe, Law.....	Seattle
Freeman, Fred W Jr, Bus.....	Tacoma
Freeman, Harry, Bus.....	Seattle
Freeman, Hazel, LA.....	Longview
Freeman, Jack, LA.....	Aberdeen

Freeman, Theodore B, Grad.	Maplewood, NJ	Gagan, Hannah D, LA	Seattle
Freeman, Trunette A, Edu.	Centralia	Gage, Florence, FA	Seattle
Frelberg, Bernice, J	Spokane	Galne, Juanita June, FA	Seattle
French, Dorothy P, Bus	Vancouver	Gaines, Donald L, LA	Seattle
French, Ray, LA	Okanogan	Galbraith, Archie, Bus	Seattle
French, W P, Engr	Seattle	Gale, Hugh A, LA	Seattle
Friend, Julia, LA	Seattle	Galer, Virginia, LA	Seattle
Frey, Christina, Bus	Bremerton	Galima, Leo C, LA	Philippines
Fricke, Edgar F, Bus	Bellevue	Gallitzin, Alexander, FA	Seattle
Friedrich, Hazel E, Grad	Seattle	Gallagher, William J, Bus	Olympia
Friedman, Jack, LA	Spokane	Galloway, Clarence W, LA	Spokane
Fries, Edward S, LA	Bowling Green, O	Galloway, Victor, Sci	Seattle
Fries, Emil, LA	Brewster	Gallwas, Alberta, LA	Douglas, Alaska
Friese, Norman F, Sci	Snohomish	Gallwas, Harold F, Bus	Douglas, Alaska
Friese, Norval A, FA	Snohomish	Galt, Byron H, Engr	Seattle
Friese, Virginia, LA	Edmonds	Galvin, Helen, Edu	Valleyford
Frink, Robert A, LA	Vancouver	Galvin, Vincent, Bus	Seattle
Friable, Chester C, Edu	Wapato	Gamble, Robert W, LA	Spokane
Fritch, Barbara, FA	Seattle	Gamble, Ted, LA	Seattle
Fritts, Strella, FA	Seattle	Gamer, Alice, Sci	Seattle
Fritz, Knute A, LA	Ross, ND	Gamer, Leland, Engr	Tacoma
Fritzler, Alexander, Engr	Walla Walla	Gamlen, Thoralf, Engr	Seattle
Frode, Donald, Fsh	Port Angeles	Gammell, Gertie, Bus	Burton
Frohman, Clyde, Bus	Puyallup	Gammell, John, Engr	Burton
Frolstad, Wilmer, LA	Spokane	Gandy, Ellen, LA	Spokane
Frolov, Boris A, Engr	Seattle	Gandy, Joseph E, Law	Spokane
Frost, Dorothy Pearl, FA	Bellingham	Gange, Melville, LA	Tacoma
Frost, Edwin, Engr	Charleston	Gannaway, Jack, LA	Seattle
Frost, Freeman S, LA	Spokane	Gansler, Richard A, Bus	Lynden
Frost, Harriet, LA	Spokane	Ganty, Prosper S, LA	Skagway, Alaska
Frost, Helen, LA	Seattle	Garbe, Frank, Law	Chehalis
Frostman, Henry W, Engr	Seattle	Garborg, Ruth M, FA	Seattle
Froude, Ruth, LA	Seattle	Garden, Kathryn L, LA	Charleston
Froude, Paul E, Sci	Seattle	Gardiner, Billie, LA	Auburn
Froula, D K, Engr	Seattle	Gardiner, G Keith, FA	Seattle
Froula, Eva, Bus	Seattle	Gardner, Bryson Ross, Bus	Tacoma
Froula, Olivia, Bus	Seattle	Gardner, Carl L, LA	Glendale, Cal
Froula, Sylvia, Bus	Seattle	Gardner, Helen, FA	Seattle
Fruddenfeld, Mildred, Grad	Seattle	Gardner, Herbert, Bus	Seattle
Fruh, Agatha Marie, FA	Shelby, Mont	Gardner, John T, Bus	Portland, Ore
Fry, Irene, LA	Seattle	Gardner, Ruth, LA	Seattle
Fry, Nellie A, Sci	Hoquiam	Gardner, Stanley L, Bus	Spokane
Frye, Elizabeth A, Sci	Seattle	Garfield, Celia, LA	Los Angeles, Cal
Fryer, Lucia, FA	Seattle	Garfield, David, LA	Los Angeles, Cal
Frykholm, Frances, FA	Seattle	Garfield, Viola E, LA	Los Angeles, Cal
Fuchek Linus Clyde, Engr	Buckley	Garlitz, Mary A, LA	Seattle
Fujii, Hoshito, LA	Seattle	Garner, John Edward, Engr	Kent
Fukuda, Masakki, Bus	Japan	Garner, Louella, Grad	Kent
Fukutomi, Roldo, LA	Japan	Garrecht, Caroline, LA	Spokane
Fuller, Fern Bernius, Sci	Staples, Minn	Garrett, Zelma, Sci	Cosmopolis
Fuller, Frances O, Edu	Seattle	Garrett, Alice, LA	Seattle
Fuller, Richard E, Grad	Seattle	Garretson, John, Bus	Yakima
Fuller, Robert, FA	Seattle	Garrett, Chester, Edu	Yakima
Fuller, Romayne L, LA	Aberdeen	Garrick, Isabel Agnes, FA	Seattle
Fullerton, Ray, FA	Seattle	Garrison, Harry, Engr	Mercer Island
Fullington, Lloyd H, For	Seattle	Garrott, Jean, LA	Seattle
Fulp, Hazel, LA	Seattle	Gartman, Elmer, Bus	Seattle
Fulseth, Rubena, FA	Aberdeen	Garvey, Velma, Phur	Seattle
Fulton, Donald, Engr	Everett	Garvin, Clifford R, Engr	Seattle
Fulton, David J, Grad	Pomeroy	Garvin, Zelma J, LA	Tacoma
Fulton, Fred, Pharm	Centralia	Gaston, Bob D, Bus	Seattle
Fulton, Omer, Bus	Ellensburg	Gates, Alice E, LA	Seattle
Fumerton, Rosalie, LA	Seattle	Gates, Ben L, LA	Seattle
Funk, Dawson McM, LA	Walla Walla	Gates, Harold, LA	Carmel, Cal
Funk, Joseph T, Bus	Seattle	Gates, Howard S, LA	Pasadena, Cal
Furry, Beatrice, LA	Seattle	Gatton, Walter C, Fsh	Seattle
Furry, Eleanor W, LA	Seattle	Gaul, Henry C, Bus	Seattle
Furey, Frances C, LA	Wenatchee	Gaunce, Harold W, Engr	Seattle
Furuya, Kimi, FA	Seattle	Gaupp, Pauline, Educ	Tacoma
Furukawa, Yoshio, Bus	Seattle	Gavin, Hugh O'Neill, LA	Seattle
Fye, George Dan, Bus	Everett	Gavin, T Jay, LA	Seattle
Gabbert, John, LA	Seattle	Gaw, La Mar, Sci	Seattle
Gabriel, Martin, LA	Seattle	Gaw, Wilson, Bus	Seattle
Gabrielson, Earl, LA	Seattle	Gaylor, Ernest, LA	Bremerton
Gaches, Beatrice, FA	Seattle	Gobo, Robert R, Engr	Sheridan, Wyo
Gaedke, Marie, LA	Seattle	Gee, Yoke Chan, Sci	Seattle
Gaffner, Haines Bell, Engr	Seattle	Geehan, John, Sci	Tacoma
Gaffney, Ruth A, LA	Seattle	Geer, Willard, Grad	Attalla
		Gehring, P J, Bus	Yakima
		Geibel, Fred, Bus	Bremerton

Geler, Richard J, Engr.....	Seattle	Gingrich, Florence, Bus.....	Spokane
Gels, Catherine R, LA.....	Sequora, Cal	Ginnever, Edward, FA.....	Seattle
Gelsness, Evelyn, LA.....	Port Angeles	Giovanini, Frank, Engr.....	Roslyn
Gelsness, John, LA.....	Port Angeles	Giroux, Eugene, Sci.....	Seattle
Gebartoff, Dorothy B, FA.....	Seattle	Giroux, Marie, FA.....	Seattle
Gelhaus, Dorothy, LA.....	Dillon, Mont	Gisske, Edward, Sci.....	Chicago, Ill
Gellatly, Marjorie G, FA.....	Wenatchee	Giuntoni, Julius DiGrazia, LA.....	
Gellermann, Helen, LA.....	Seattle	Gjerde, Clare, Sci.....	Seattle
Gemmell, Nina E, LA.....	Tacoma	Gjneser, Walter W, LA.....	Yakima
Genther, Benicia, Sci.....	Bellingham	Glasgow, Beryl Dee, LA.....	Seattle
Genung, Ed B, LA.....	Seattle	Glass, Robert W, Engr.....	Auburn
Genung, Myrtle, FA.....	Seattle	Glenason, Robert J, Engr.....	Seattle
George, Evaline, LA.....	Seattle	Glenn, Harry C, Edu.....	Montesano
George, Harry F, LA.....	Seattle	Glenn, Wesley S, Law.....	Seattle
George, Pearl Edna, FA.....	Seattle	Glerup, Marius, Bus.....	Opportunity
George, Ruth Marie, Sci.....	Seattle	Glick, Helen D, LA.....	Tacoma
George, Wm H, Grad.....	Seattle	Glickman, Abe Edward, LA.....	Seattle
Georgette, Clel, Law.....	Seattle	Glickman, Diana, LA.....	Portland, Ore
Gerber, Bertha S, LA.....	Seattle	Glickman, Louis, LA.....	Seattle
Gerdeman, Alice E, Grad.....	Seattle	Goble, Chas Edward, LA.....	Tacoma
Gerhardt, Karl E, LA.....	Aberdeen	Gochmour, Floyd E, LA.....	Montesano
Gerke, Harold D, Sci.....	Seattle	Godefroy, Charles, Engr.....	Spokane
German, V Marie, LA.....	Sumner	Godfrey, Nellie, Sci.....	Seattle
German, Wilma C, Sci.....	Sumner	Godfrey, Xelis W, Engr.....	Lake Stevens
Gershevsky, Noah D, Min.....	Seattle	Goering, Elmer, Law.....	Monroe
Gershon, Perry R, Fsh.....	Seattle	Goetting, Gladys W, Edu.....	Seattle
Gess, Tom B, LA.....	Spokane	Goff, Willard, Sci.....	Seattle
Getchell, Bayard McC, Engr.....	Medford, Ore	Goggin, George T, LA.....	Seattle
Gettelman, Eugene, Sci.....	Portland, Ore	Goldberg, Esther, LA.....	Portland, Ore
Getty, Dorothy Mae, LA.....	Tacoma	Goldberg, Mary, FA.....	Seattle
Gevurtz, Wm S, LA.....	Seattle	Goldblatt, Alfred, LA.....	Portland, Ore
Gezilius, Carl V, Min.....	Northport	Goldblatt, Helen, LA.....	Portland, Ore
Ghiglione, Angelo, Sci.....	Seattle	Goldblatt, Homer L, LA.....	Spokane
Ghiglione, Maybelle, Jour.....	Seattle	Golden, Constance, Bus.....	Bremerton
Gibb, Minnie, Sci.....	Aberdeen	Goldman, Olive, LA.....	Wauwa
Gibb, W E, Grad.....	Seattle	Goldsmith, Bobbette, Sci.....	Seattle
Gibbon, W L, Law.....	Seattle	Goldstein, Beatrice Jean, FA.....	Seattle
Gibbons, Anna, Sci.....	Lancaster, Cal	Goncharoff, Leon, Bus.....	Silberia
Gibbons, Harold, Bus.....	Seattle	Gonzales, Deogracios, LA.....	Philippines
Gibbs, Wm W, LA.....	Seattle	Gonzales, Jose, Sci.....	Philippines
Giblin, Arthur A, LA.....	Tacoma	Gooch, John Martin, Pharm.....	Seattle
Giblin, Grace M, Grad.....	Fallon, Nev	Good, Lydia M, LA.....	Mt Vernon
Giboney, Edgar B, Sci.....	Seattle	Good, Ruth A, FA.....	Flathead, Mont
Giboney, John F, Bus.....	Verdale	Goodpasture, Margaret, FA.....	Olympia
Gibson, Florence, Bus.....	Twisp	Goodsell, Julia, Sci.....	Chelan
Gideon, Edith, Sci.....	Winalow	Goodwin, Shirley, LA.....	Seattle
Gierin, Grace, LA.....	Seattle	Goon, Lillian, Grad.....	Seattle
Giers, Carl J, LA.....	Tacoma	Goore, John, Engr.....	Tacoma
Gifford, Gilbert L, Bus.....	Twisp	Gordon, Blanche, LA.....	Seattle
Gilbert, Denave, LA.....	Seattle	Gordon, Kenneth, Engr.....	Bellingham
Gilbert, Evelyn Luella, LA.....	Seattle	Gordon, Lewis Frank, Phar.....	Grays Harbor
Gilbert, Kenneth N, LA.....	Olympia	Gordon, Walter S Jr, Grad.....	Seattle
Gilbert, Miles P, LA.....	Seattle	Gorham, Elizabeth, LA.....	Seattle
Gilchrist, Madeline, Grad.....	Seattle	Gorham, Sarah, LA.....	Seattle
Gilbreath, Marjorie L, Sci.....	Seattle	Gormley, Helen, FA.....	Seattle
Gill, Donald, LA.....	Seattle	Gorow, Frank F, Sci.....	Tacoma
Gill, Dorothy, Sci.....	Seattle	Gosa, Della V, LA.....	Seattle
Gill, Edward C, Bus.....	Seattle	Gosa, Earl H, LA.....	Seattle
Gill, L Presley, Bus.....	Seattle	Gose, Jack Gordon, Grad.....	Seattle
Gill, Ramon E, LA.....	Snohomish	Goss, Fred, LA.....	Seattle
Gillespie, Hazel, Sci.....	Centralla	Goss, Worth C, Engr.....	Seattle
Gillespie, Margaret L, LA.....	Hoquiam	Goudie, Glenn E, Engr.....	Seattle
Gillespie, Norman J, Bus.....	Sheridan, Wyo	Gould, Alex, LA.....	Seattle
Gillett, Jessie M, FA.....	Seattle	Gould, Marie Louise, LA.....	Seattle
Gillette, Mildred B, Pharm.....	Seattle	Gourlay, Arthur, Bus.....	Seattle
Gilley, Robert W, LA.....	Portland, Ore	Gourlay, Robert C, LA.....	Seattle
Gillhouse, Rachel A, Bus.....	Seattle	Gow, Paul L, Sci.....	Seattle
Gilles, Eva B, LA.....	Sumas	Gowen, Joyce, Grad.....	Seattle
Gillis, Ewen, Phar.....	Seattle	Gowen, Sylvia M, LA.....	Seattle
Gilman, David Canedy, LA.....	Ontario	Goza, Herbert, Grad.....	Advance, Mo
Gilman, Helen C, Grad.....	Seattle	Grady, Helen Elizabeth, LA.....	Mt Vernon
Gilmartin, Autumn, FA.....	Seattle	Grady, Alice, Sci.....	Seattle
Gilmer, Mary Gertrude, LA.....	Seattle	Graef, Edward L, FA.....	Seattle
Gilmore, Helen, LA.....	Seattle	Graft Casper M, LA.....	Yakima
Gilmore, Josephine, Sci.....	Seattle	Graham, Bertha D, Bus.....	Seattle
Gilmore, Kenneth W, LA.....	Seattle	Graham, Carrel Frank, Bus.....	Sunnyside
Ginger, Grace M, LA.....	Seattle	Graham, Donald, Bus.....	Seattle
Ginger, John G, LA.....	Seattle	Graham, Elizabeth, LA.....	Bellingham
Gingery, Edna M, FA.....	Seattle	Graham, Everett F, LA.....	Seattle
Gingrich, Arthur R, Bus.....	Spokane	Graham, Frederick A, Pharm.....	Bellingham

Graham, Grace W, LA.....	Winnipeg, Can
Graham, Jean, LA.....	Boise, Ida
Graham, John Jr, FA.....	Seattle
Graham, Rolland A, Bus.....	Seattle
Graham, Phyllis I, LA.....	Seattle
Graham, Violet, LA.....	Spokane
Grahn, Clarence T, Bus.....	Seattle
Grahn, Edgar Rudolph, Sci.....	Contra Costa, Cal
Grahn, Madeleine Gullemi, Grad.....	Berkeley, Cal
Grahn, T Raynold, Bus.....	Seattle
Granger, Iris, FA.....	Seattle
Grams, Chas B, FA.....	Troy, Mont
Gran, John R, Engr.....	Seattle
Grandjean, Margaret, LA.....	Seattle
Granger, Francis H, Sci.....	Yakima
Granger, Horace A, LA.....	Seattle
Grant, Anne E, LA.....	Seattle
Grant, Frank W, Bus.....	Everett
Grant, Homer, Engr.....	Vancouver
Grant, Jack E, For.....	Seattle
Grant, John L, Engr.....	Wrangell, Alaska
Grant, Laura Ethel, FA.....	Seattle
Grant, Leslie R, Bus.....	Victoria, BC
Grant, Lorraine A, FA.....	Seattle
Grant, Marian, FA.....	Glenrock, Wyo
Grant, Ruth A, Grad.....	Seattle
Grant, Vernon H, Grad.....	Seahurst
Grant, Will P, Bus.....	Seattle
Grantham, Bernard, For.....	Seattle
Grantham, Marguerite E, FA.....	Seattle
Grauman, Helen G, Grad.....	Seattle
Graves, Aleece, FA.....	Juneau, Alaska
Graves, Harding D, Fsh.....	Seattle
Graves, Virginia S, FA.....	Seattle
Gray, Anne, FA.....	Viola, Ida
Gray, Donald, Sci.....	Seattle
Gray, Edith, LA.....	Viola, Ida
Gray, Helen E, FA.....	Seattle
Gray, Katherine C, Pharm.....	Bremerton
Gray, Louis, LA.....	Viola, Ida
Gray, Rose, Edu.....	Tacoma
Graybill, Irene, LA.....	Walla Walla
Graybill, Mamie L, LA.....	Walla Walla
Graza, Pedro P, LA.....	Victoria, PI
Grenger, Verna, Sci.....	Seattle
Greely, Cyril R, LA.....	Great Falls, Mont
Greely, Dorothy, Bus.....	Ridgefield
Greely, Myril J, LA.....	Great Falls, Mont
Green, Allen V, Engr.....	Enumclaw
Green, Alexander C, Bus.....	Vancouver
Green, Betty, LA.....	Seattle
Green, Elizabeth G, FA.....	Ansonia, Conn
Green, Frances, LA.....	Seattle
Green, Harry G, Pharm.....	Seattle
Green, Jane, LA.....	Aberdeen
Green, Norman E, Sci.....	Snobomish
Green, Paul Floyd, Grad.....	Seattle
Green, Wm Randolph, Min.....	Spokane
Greenberg, Dorothy, FA.....	Seattle
Greenberg, Eloise, FA.....	Seattle
Greenblatt, Belle W, LA.....	Seattle
Greene, Corston A, Sci.....	Spokane
Greene, Henry Campbell, Sci.....	Portland, Ore
Greene, Norma G, Bus.....	Battle Ground
Greene, Rachel Blair, Sci.....	Seattle
Greenough, Joe W, LA.....	Spokane
Greenstone, Charles R, LA.....	Seattle
Greenough, Ragen Wm, Bus.....	Spokane
Greenstone, Stanford, Bus.....	Seattle
Greenwell, Catherine, LA.....	Seattle
Greenwell, Joseph L Jr, Sci.....	Seattle
Greenwich, Al Fsh.....	Seattle
Greenwood, George, Sci.....	Seattle
Greer, Jean E, Sci.....	Seattle
Greger, William, Bus.....	Everett
Gregg, Dorothy Dean, FA.....	Chehalis
Gregg, Ralph L, Sci.....	Seattle
Gregg, Stanley, LA.....	Seattle
Gregg, R Vincent, Engr.....	Seattle
Gregory, Jaie Mary, Sci.....	Seattle
Gregory, Joseph C, Engr.....	Seattle
Gregory, Mercer, Sci.....	Reno, Nev
Greguson, Judith, Grad.....	Seattle
Greig, Humboldt J, LA.....	Tacoma
Greig, William T, Bus.....	Cashmere
Gressly, Bernice, FA.....	Seattle
Grevstad, Hildur L, LA.....	Seattle
Griadasoff, Leonid, Engr.....	Russia
Griep, Elmer F, Sci.....	Seattle
Griep, Harold G, Bus.....	Arlington
Griep, Kenneth, LA.....	Fruitland, Ida
Grier, Elizabeth, LA.....	Seattle
Grier, Joyce, LA.....	New York, NY
Grier, Mary Catherine, Sci.....	Seattle
Griesinger, Phillip, Grad.....	Wilson Creek
Griffin, Edwin L, LA.....	Tacoma
Griffin, Everett J, Bus.....	Spokane
Griffin, Eugene F, LA.....	Seattle
Griffin, J H Jr, Bus.....	Los Angeles, Cal
Griffin, Hortense, Sci.....	Seattle
Griffin, Roy W, Bus.....	Anacortes
Griffith, Garland, LA.....	The Dalles, Ore
Griffith, Jack, Engr.....	Bellingham
Griffith, Mary LA.....	Seattle
Griffiths, Margaret, LA.....	Seattle
Griggs, Clara M, FA.....	Yakima
Griggs, Horace H Jr, LA.....	Bellingham
Griggs, James O, LA.....	Yakima
Griggs, Joseph F, Sci.....	Tacoma
Grimes, Nancy V, LA.....	Tacoma
Grisdale, Geo M, For.....	Shelton
Grisdale, Joseph C, LA.....	Shelton
Grismore, John T, FA.....	Oakland, Cal
Gritman, Lorene, LA.....	Spokane
Gritsch, Anton H, LA.....	Seattle
Gritsch, Ernest, Bus.....	Seattle
Grocock, Frances E, Sci.....	Seattle
Gromer, James G B, Law.....	Seattle
Groom, Frank, FA.....	Bellingham
Gross, Harold Lee, Engr.....	Waukesha, Wis
Grossman, Roy Edward, Engr.....	Seattle
Groth, Russell M, Bus.....	Seattle
Grothe, Reginald C, Fsh.....	Seattle
Grubb, Vesta, FA.....	Mercer Island
Gruber, Elmon J, LA.....	Seattle
Gruber, Foster M, FA.....	Walla Walla
Gruenberg, Marguerite, LA.....	Seattle
Grunbaum, Art, LA.....	Seattle
Grunbaum, Helen, LA.....	Seattle
Grunbaum, James E, FA.....	Seattle
Grunbaum, Jane, LA.....	Seattle
Grunoff, Lalla, Sci.....	Kent
Guberlet, Mauriel, Grad.....	Seattle
Gudellus, Elfriede, LA.....	Seattle
Guernsey, Charles E, Bus.....	Seattle
Guerrero, Faustino, For.....	Philippines
Guffey, Wm C, Pharm.....	Langley
Gulang, Pedro G, Grad.....	Philippines
Gulder, Richard S, LA.....	Seattle
Gulle, Larry G, LA.....	Seattle
Gulland, Floyd H, LA.....	Yakima
Gullien, Filemon, Grad.....	Philippines
Gulmont, John J, LA.....	Seattle
Gulmont, Robert P, LA.....	Seattle
Gulick, Howard B, LA.....	Seattle
Gulick, John D, Bus.....	Seattle
Gulick, Margaret, LA.....	Seattle
Guliksen, Olive M, LA.....	Everett
Gulstine, Morris, LA.....	Seattle
Gumbert, Morris, Sci.....	Seattle
Gummer, Ada, LA.....	Seattle
Gundersen, Tom, Engr.....	Lakeview
Gunderson, Clayton, Sci.....	E Stanwood
Gunderson, Harold J, Pharm.....	E Stanwood
Gunderson, Marlon A, Engineer.....	Bothell
Gundlach, Alice L, Grad.....	Seattle
Gunnell, Archie H, Sci.....	Roslyn
Gunnell, Mary B, FA.....	Seattle
Gunter, Margaret L, LA.....	Everett
Gunther, Beatrice M, Grad.....	Seattle

Gunther, Karl W, Engr.....	Seattle
Guppy, T S, LA.....	Seattle
Gurlan, Ted, Bus.....	Portland, Ore.
Gustafson, Carl Lennart, Engr.....	Seattle
Gustafson, Helen, LA.....	Seattle
Gustafson, Katherine, Sci.....	Seattle
Gustafson, Richard F, Engr.....	Duluth, Minn
Gustafson, Rudolph O, For.....	Vancouver
Gustanoff, Abe Louis, Engr.....	Seattle
Gustavson, Eml G, Law.....	Seattle
Gustlin, Helen, Law.....	Monroe
Guth, Earl, Pharm.....	Seattle
Gutherless, Edward, Bus.....	Seattle
Guthrie, Elton F, Grad.....	Seattle
Guthrie, Gwendolyn, Grad.....	Seattle
Guthrie, Katherine, FA.....	Seattle
Guttormsen, George, LA.....	Snohomish
Guttormsen, Harold, LA.....	Everett
Gyde, Dorothea, Edu.....	Seattle
Gyder, James E Jr, Law.....	Wallace, Ida
Gynn, Winifred, FA.....	Puyallup
Hack, Geo Perry, LA.....	Seattle
Hackman, Fred, LA.....	Everett
Hackney, Devere, Pharm.....	Centralla
Haddock, Boyd, Bus.....	Earlington
Haddon, Joseph E, Sci.....	Bremerton
Haddon, Lawrence, Bus.....	Bremerton
Hadley, Elsie Jane, Bus.....	Seattle
Hadley, Lyle B, Engr.....	Seattle
Hadley, Wm H, Engr.....	Seattle
Hadsell, Robert L, Bus.....	Everett
Hagen, Alice, LA.....	Seattle
Hagen, Evelyn, LA.....	Bellingham
Hagen, Irene C, LA.....	Bellingham
Hagen, Louise, LA.....	Seattle
Hagglund, Paul, Sci.....	Port Blakely
Hagist, Alfred C, LA.....	Seattle
Hagist, Edgar L, Bus.....	Seattle
Hagist, Robert L, LA.....	Seattle
Haglund, Ivar, LA.....	Seattle
Hagman, Louis, Bus.....	Selah
Hahn, Louise K, Bus.....	Seattle
Haines, Frances, LA.....	Seattle
Haines, Roy T Jr, LA.....	Seattle
Hairston, Frances, LA.....	Wenatchee
Hale, Warren W, Sci.....	Portland, Ore
Hall, Amy Violet, Grad.....	Seattle
Hall, Alvin M, Edu.....	Seattle
Hall, Annabell E, FA.....	Seattle
Hall, Bradford, FA.....	Lowden
Hall, Calvin, LA.....	Seattle
Hall, Carl W, Fsh.....	Seattle
Hall, Donald, Sci.....	Seattle
Hall, Dorothy Isabell, Bus.....	Seattle
Hall, Ellery K, Bus.....	Yakima
Hall, Fred G, LA.....	Palo Alto, Cal
Hall, Harry L, FA.....	Sunnyside
Hall, Jennie S, LA.....	Seattle
Hall, John I, Bus.....	Port Flagler
Hall, Lawrence M, FA.....	Seattle
Hall, Lura F, Sci.....	Everett
Hall, Margaret, Edu.....	Seattle
Hall, Marie, Bus.....	Wenatchee
Hall, Portia Patterson, FA.....	Seattle
Hallberg, Albert W, Bus.....	Seattle
Haller, Ted, Engr.....	Seattle
Halloran, Leroy, Bus.....	Edison
Hallowell, Russell N, LA.....	Redondo
Hallstrom, Charles W, Law.....	Seattle
Hallstrom, E W, LA.....	Seattle
Hallum, Jerome D, Bus.....	Seattle
Hallum, Valdimio D, Bus.....	Seattle
Halse, George C, For.....	Vancouver, BC
Halsey, Theodore Francis, LA.....	Seattle
Halvar, E George, FA.....	Seattle
Halvarson, T, Engr.....	Seattle
Hamada, Kay, Bus.....	Honolulu
Hamblen, Charlotte, Grad.....	Spokane
Hambright, Margaret, LA.....	Seattle
Hamilton, Benjamin J, LA.....	Raymond
Hamilton, Grace, FA.....	Seattle
Hamilton, James B, Grad.....	Seattle
Hamilton, Rachel Elizabeth, Grad.....	Echo, Ore
Hamilton, Edgar C, LA.....	Seattle
Hamilton, Roland R, For.....	Washington, Pa
Hamley, Chas L, LA.....	Bellevue
Hamley, Frederick G, LA.....	Bellevue
Hamlin, Margaret, LA.....	Seattle
Hamlin, Phyllis, LA.....	Seattle
Hamm, Lewis K, LA.....	Seattle
Hamman, Roy, Bus.....	Seattle
Hammer, Karl E, Engr.....	Seattle
Hammock, Jim D, Engr.....	Seattle
Hammond, Allen O, Grad.....	Seattle
Hammond, Richard N, For.....	Longview
Hanafusa, Fumi Alyce, Bus.....	Seattle
Hance, Marie A, Bus.....	Bosthury, Pa
Haney, Gerald A, Bus.....	Seattle
Haney, Wayne, Law.....	Seattle
Hanigan, Geo Henry, LA.....	Cathlamet
Hanigan, May Ruth, LA.....	Cathlamet
Hankins, James Rupert, For.....	Little Rock, Ark
Hankins, John H, Bus.....	Seattle
Hanley, Robert R, Law.....	Wenatchee
Hanna, Evans A, Bus.....	Wenatchee
Hanna, Ralph W, LA.....	Yelm
Hannan, Denny G, FA.....	Seattle
Hansen, Bert B, Grad.....	Seattle
Hansen, Carl C, Engr.....	Seattle
Hansen, George F, Bus.....	Seattle
Hansen, Harold M, Sci.....	Seattle
Hansen, Helene, Sci.....	Tacoma
Hansen, Herman L, Bus.....	Port Angeles
Hansen, Ingram M, LA.....	Port Angeles
Hansen, Julius P, LA.....	Manson
Hansen, Nancy Jane, LA.....	Everett
Hansen, Ralph W, Bus.....	Tacoma
Hansen, Wenonah S, LA.....	Seattle
Hanson, Alice C, Grad.....	Seattle
Hanson, Charles F, LA.....	Enumclaw
Hanson, Corrine, FA.....	Seattle
Hanson, Elsie L, Bus.....	Seattle
Hanson, A George, Sci.....	Enumclaw
Hanson, M Harold, LA.....	Everett
Hanson, Helen, FA.....	Seattle
Hanson, Helen Dorothy, Sci.....	Ajume
Hanson, Hilda Margaret, LA.....	Seattle
Hanson, Inga L, FA.....	Ketchikan, Alaska
Hanson, Raymond A, Bus.....	Seattle
Harby, Horace, LA.....	Seattle
Harby, Sam, LA.....	Seattle
Hardesty, Clarence A, LA.....	Seattle
Hardinger, E E, Sci.....	Kirkland
Hardy, Martha, LA.....	Seattle
Hardin, Margaret Homer, Sci.....	Seattle
Haring, Robert C, Engr.....	Seattle
Harkness, Mildred, FA.....	Aberdeen
Harkonen, Pearl A, Sci.....	Hartford
Harley, C Frederick, Bus.....	Seattle
Harley, Katrina, FA.....	Seattle
Harlowe, Eleanor B, FA.....	Seattle
Harmer, Theo M, Pharm.....	Tacoma
Harmony, H A, Engr.....	Seattle
Harnan, Mary Elizabeth, LA.....	Seattle
Harnen, Lawrence, Bus.....	Dryden
Harney, Gerald E, Engr.....	Seattle
Harper, Ernest E, Engr.....	Vancouver
Harper, Genevieve, LA.....	Seattle
Harrell, Newton T, Bus.....	Rogerson, Ida
Harriger, Ralph E, Pharm.....	Ridgefield
Harrington, Emmet, Bus.....	Seattle
Harrington, Ireell, LA.....	Spokane
Harrington, Gerald E, FA.....	Seattle
Harrington, Geraldine, Sci.....	Seattle
Harrington, Paul G, For.....	Seattle
Harrington, Sarah, FA.....	Sunnyside
Harris, Arthur J, Grad.....	Port Angeles
Harris, Chas H, Bus.....	Seattle

Harris, David M, Sci.....	Seattle
Harris, Edith E, LA.....	Seattle
Harris, Eleanor, LA.....	Seattle
Harris, Ernest A, For.....	Medford, Ore
Harris, M Gertrude, FA.....	Seattle
Harris, Helen, LA.....	Seattle
Harris, Irene J, Sci.....	Bellingham
Harris, Isabel, LA.....	Seattle
Harris, John D, Bus.....	Seattle
Harris, John F, LA.....	Seattle
Harris, Lewis P, Sci.....	Everson
Harris, Louise, LA.....	Clayton
Harris, Marguerite, LA.....	Seattle
Harris, Orin L, Bus.....	Seattle
Harris, Peggy Jane, LA.....	Seattle
Harris, Richard B Jr, For.....	Seattle
Harrison, Charles, LA.....	Seattle
Harrison, Helen B, FA.....	Seattle
Harrison, Kathryn, LA.....	Selah
Harrison, Orpha H, FA.....	Seattle
Harron, Louise L, LA.....	Yakima
Harsch, Alfred E, Law.....	Yakima
Harsch, Orleana, LA.....	Seattle
Hart, Jeanne, LA.....	Tacoma
Hart, Bertha, Sci.....	Seattle
Hart, Dorothy J, FA.....	Seattle
Hart, Edward G, For.....	Victoria
Hart, Harvey, Bus.....	Longview
Hart, James P, Sci.....	Seattle
Hart, Kay, Sci.....	Seattle
Hart, Margaret, FA.....	Des Moines, Ia
Hart, Mildred, LA.....	Seattle
Hartge, Lena A, Grad.....	Seattle
Hartge, Robert W, LA.....	Seattle
Hartle, Frances, LA.....	Seattle
Hartley, Catherine, Bus.....	Seattle
Hartley, Edythe Louise, LA.....	Vancouver
Hartley, Edwin, LA.....	Bellingham
Hartley, Florence, Sci.....	Seattle
Hartley, Herbert R, LA.....	Aberdeen
Hartley, Louis Talbot, FA.....	Puyallup
Hartley, Zelma J, FA.....	Seattle
Hartline, Jack R, LA.....	Rainier
Hartline, Oliver W, Bus.....	Rainier
Harting, Raymond D, Grad.....	Seattle
Hartman, Albin, Bus.....	Hilo, Hawaii
Hartman, Nellie Mae, LA.....	Seattle
Hartnagel, Louis N, Bus.....	Seattle
Hartnagel, Nelson, For.....	Seattle
Hartnagel, Robin N, Bus.....	Seattle
Hartney, Margaret, Edu.....	Seattle
Hartwell, Floyd S, Engr.....	Seattle
Harvey, Elsie, LA.....	Walla Walla
Harvard, Harold, Grad.....	Springville, Utah
Haselbauer, Rudolph, LA.....	Seattle
Hasiguchi, Kenji, Bus.....	Seattle
Hashimoto, Shizuo, Engr.....	Toppenish
Hassenmiller, K Lynden, Grad.....	Seattle
Hastert, Louise, FA.....	Aberdeen
Hastings, Constance, FA.....	Seattle
Hastings, Jessie, LA.....	Seattle
Hatch, Chas Edw, Edu.....	Lester
Hatch, George E, LA.....	Seattle
Hatton, Grace, LA.....	Seattle
Hauan, Elda M, LA.....	Richmond Beach
Hauer, Norman W, Engr.....	Wickersham
Hauf, Harold A, Engr.....	Seattle
Hauf, Thor W, Engr.....	Seattle
Haugen, Anders Zahl, LA.....	Seattle
Haugen, Janet, LA.....	Seattle
Haugland, Vernon, LA.....	Seattle
Hauser, Lawrence, FA.....	Seattle
Haver, Eunice, FA.....	Seattle
Haviland, Elizabeth, Sci.....	Puyallup
Havlund, Wm, Bus.....	Seattle
Hawkins, Harold L, Grad.....	Bellingham
Hawthorn, George E, Grad.....	Seattle
Hay, Byron, Engr.....	Helena, Mont
Hay, Mabel M, Grad.....	Seattle
Hayashitani, Yutaka, FA.....	Seattle
Hayden, Gwendolyn, FA.....	Seattle
Haydon, L Albert, Bus.....	Taft, Cal
Hayes, Bob, LA.....	Seattle
Hayes, Emily, Bus.....	Seattle
Hayes, Frank, FA.....	Chewelah
Hayes, Leroy E, Bus.....	Bellingham
Hayes, Margaret, Pharm.....	Seattle
Hayes, William, LA.....	Seattle
Haynal, John B, Sci.....	Walla Walla
Haynes, Geraldine, Bus.....	Bellingham
Haynes, Nat, Engr.....	Seattle
Hays, Pearl, Pharm.....	Seattle
Hayes, William H, Bus.....	Piedmont, Cal
Hayward, Allen J, Sci.....	Seattle
Hayward, Stanton B, For.....	Bremerton
Hayward, William S, Bus.....	Seattle
Hazel, George, Bus.....	Seattle
Hazelquist, Emanuel S, Engr.....	Hoquiam
Head, Pauline, FA.....	Seattle
Healy, Theodore P, LA.....	Tacoma
Healy, John, Sci.....	Seattle
Healy, William L, LA.....	Tacoma
Heard, Nell L, LA.....	Seattle
Hearty, Aileen L, FA.....	Seattle
Heath, Lawrence, Bus.....	Spokane
Heaton, Charlotte V, FA.....	Bellingham
Heaphy, Ralph William, Bus.....	Seattle
Hebenstreet, George, Bus.....	Seattle
Heberlein, Stanley H, LA.....	Edmonds
Herbert, William, Sci.....	Shelton
Hecker, Fred Louis, Bus.....	Dundee, Ill
Hedgcock, Howard Wm, LA.....	Seattle
Hedges, Elizabeth, FA.....	Waterville
Hedlund, Ruth, Sci.....	Seattle
Hefferline, J E, Engr.....	Seattle
Heffron, Ethel E, Sci.....	Sunnyside
Hegdahl, Doris, LA.....	Seattle
Hegg, Agnes C, FA.....	Aberdeen
Hegg, Arnold, Sci.....	Aberdeen
Heldner, Maxine, FA.....	Pasadena, Cal
Heilman, Robert Jr, LA.....	Spokane
Heiman, Milton, Bus.....	Seattle
Helmbaugh, Leona, LA.....	Seattle
Helnz, Bertram, LA.....	Chelan
Helnze, Mira, FA.....	Seattle
Helberg, Robert J, Engr.....	Aberdeen
Helliesen, Ruth V, LA.....	Seattle
Hellyer, Glen A, Engr.....	Acme
Hemb, Edwin H, LA.....	Dundee, Ill
Hemenway, Leo D, LA.....	Puyallup
Hempler, Geo C, Bus.....	Everett
Hempstead, Wm, Bus.....	Seattle
Henderson, Elizabeth, LA.....	Wilkinsburg, Pa
Henderson, Frances Eleanor, LA.....	Seattle
Henderson, Frank C, LA.....	Spokane
Henderson, Jessie C, LA.....	Seattle
Henderson, Katherine, FA.....	Mt Vernon
Henderson, Lawrence, Bus.....	Seattle
Henderson, Oliver E, Bus.....	Seattle
Henderson, T Kenneth, Bus.....	Seattle
Henderson, William H, Engr.....	Seattle
Hendricks, John E, FA.....	Seattle
Hendrix, Hugh, LA.....	Seattle
Henke, Harry Jr, Law.....	Seattle
Henley, Ruth, FA.....	Seattle
Hennessy, Albert, FA.....	Seattle
Henrickson, George, Pharm.....	Ferndale
Henry, Cordia J, Bus.....	Charleston
Henry, Everett, Engr.....	Everett
Henry, Florence, LA.....	Tacoma
Henry, Geo E, Law.....	Seattle
Henry, Marguerite C, FA.....	Seattle
Henry, Muriel B, FA.....	Seattle
Henry, Rossie, Edu.....	Seattle
Henry, Vincent, LA.....	Yakima
Hensley, Pauline, FA.....	Seattle
Hensley, Mercedes H, FA.....	Seattle
Hepperle, Charlotte P, FA.....	Seattle
Herbsman, Virginia L, Bus.....	Seattle
Herdlich, Jared A, Min.....	Seattle

Hergert, W Dick, Fsh.....	Seattle	Hitt, Edward G, Engr.....	Seattle
Heritage, Nellie B, LA.....	Seattle	Hjermstad, Martha, LA.....	Anacortes
Hermans, Thos G, Grad.....	Seattle	Hoard, George L, Grad.....	Seattle
Herold, Chester Lathrop, Sci. San Jose, Cal		Hoard, Robert, LA.....	Seattle
Herold, Edmund H, Bus.....	Seattle	Hoard, Ruth, Sci.....	Seattle
Herplick, Jack W, LA.....	Seattle	Hobart, Lawrence, Engr.....	Raymond
Herren, Naomi E, LA.....	Aberdeen	Hobert, Harold W, For.....	Seattle
Herron, Joseph Charles, FA.....	Seattle	Hoblitzell, Austin B, Engr.....	Seattle
Herrold, Betsy Ann, LA.....	Ilwaco	Hoch, Walter G, For.....	Prosser
Hershey, Ralph M, LA.....	Colby	Hochberg, Sylvia, LA.....	Seattle
Hertsche, Marjorie A, LA.....	Seattle	Hochfeld, Alvin, LA.....	Seattle
Hervin, Carl H, Engr.....	Seattle	Hochfeld, Gertrude, Sci.....	Seattle
Hesslan, Howard, Jour.....	Seattle	Hockersmith, W F, Engr.....	Spokane
Heussy, Carl R, Law.....	Seattle	Hochtritt, Helen G, Edu.....	Cheney
Heuver, Herbert M, Engr.....	Seattle	Hodge, Fred A, LA.....	Seattle
Hewitt, Harry H, Fsh.....	Seattle	Hodgson, Dorsey D, FA.....	Vancouver
Hewitt, Ruth, LA.....	Yakima	Hoefler, C Louis Jr, Sci.....	Everett
Hiatt, Kemp, LA.....	Seattle	Hoelscher, William C, LA.....	Seattle
Hibbard, Alvin E, Bus.....	Mt Vernon	Hoelz, Bernice, Bus.....	Seattle
Hibbs, Helen, FA.....	Seattle	Hoff, Alice, Bus.....	Seattle
Hibbs, Lols, FA.....	Seattle	Hoff, Ebbe C, Sci.....	Bothell
Hicklin, Wendell C, LA.....	Mabton	Hoff, Heibel E, Sci.....	Bothell
Hickenbottom, Walter E, LA.....	Zillah	Hoff, Leon M, Engr.....	Seattle
Hickman, Evo E, LA.....	Seattle	Hoffedelz, Homer L, Min.....	Gendale, Cal
Hicks, Esther, Edu.....	Grandview	Hoffman, Edward D, LA.....	Tacoma
Hicks, J F G Jr, Sci.....	Seattle	Hoffman, Jayne R, LA.....	Seattle
Hicks, Retha, LA.....	Tacoma	Hoffman, Lawrence W, Jour.....	Seattle
Higa, Saburo, LA.....	Honolulu	Hoffman, Miriam Lee, FA.....	Seattle
Higgins, Kathryn, FA.....	Seattle	Hoffman, Walter P, Engr.....	Seattle
Higgins, Marie, LA.....	Chelan	Hogan, Clara H, Edu.....	Seattle
Highley, Jack, LA.....	Oklahoma City, Okla	Hogan, Jack Arthur, Bus.....	Seattle
Highley, Mont, LA.....	Oklahoma City, Okla	Hogan, Maude E, FA.....	Vader
Higley, Marie E, Sci.....	Seattle	Hogan, Reanna, Bus.....	Seattle
Higman, Chester J, LA.....	Seattle	Hogan, Reanne J, LA.....	Seattle
Higucl, Takashi, FA.....	Seattle	Hogan, Robert E, Engr.....	Seattle
Hille, G D, LA.....	Seattle	Hogart, Louise, Sci.....	Seattle
Hileman, Ruth, LA.....	Seattle	Hogberg, Judith, LA.....	Seattle
Hilke, Mary E, FA.....	Seattle	Hogen, Marie, Bus.....	Chehalis
Hill, Edwin K, Jr, LA.....	Seattle	Hogen, Nellie, LA.....	Chehalis
Hill, Elmer A, Jr, LA.....	Seattle	Hogg, Herbert W, Pharm.....	Seattle
Hill, Ivan B, LA.....	Seattle	Hoglund, Olga E, LA.....	Seattle
Hill, Kenneth P, For.....	Seattle	Hogue, Shannon, LA.....	Seattle
Hill, Martha E, LA.....	Seattle	Hohag, Walton Henry Jr, LA.....	Seattle
Hill, Richard V, LA.....	Puyallup	Hohenschild, Rosemary, FA.....	Seattle
Hill, Way Woody, LA.....	Seattle	Holsington, R Donald, Bus.....	Tacoma
Hillebrecht, Elsa L, Pharm.....	Bellingham	Holt, Ruth Marie, Sci.....	Seattle
Hillier, Jack Aaron, Bus.....	Portland, Ore	Hokanson, Helen M, LA.....	Hogquam
Hillman, Arthur, LA.....	Seattle	Holahan, Thomas, LA.....	Seattle
Hillman, Belle, LA.....	Seattle	Holcomb, Cornelius C, LA.....	Seattle
Hills, Carlotta, Grad.....	Seattle	Holcomb, Margaret, LA.....	Seattle
Hillyer, Theo, LA.....	Yakima	Holden, Eleanor, LA.....	Toppenish
Hilton, Ethel B, FA.....	Seattle	Holden, Gordon C, LA.....	Seattle
Hilton, Gillette, LA.....	Evanston, Ill	Holden, Harold, Law.....	Seattle
Hilton, Irene N, LA.....	Marysville	Holden, Helen B, FA.....	Yakima
Hilzinger, Julia M, Edu.....	Seattle	Holden, Wm S, LA.....	Seattle
Hinde, Edward J, Engr.....	Ridgefield	Holgate, Chas G, For.....	Seattle
Hinderer, Finfred E, LA.....	Seattle	Holly, Luther R, FA.....	Seattle
Hine, Marie Louise, Grad.....	Du Quoin, Ill	Holman, Alice, LA.....	Seattle
Hineline, Douglas, Engr.....	Seattle	Holmberg, Wesley, Jour.....	Aberdeen
Hineline, Virginia G, Bus.....	Seattle	Holmes, Albin, LA.....	Olympia
Hines, John P, Engr.....	Portland	Holmes, Catherine, LA.....	Seattle
Hingston, Philippe, Bus.....	Everett	Holmes, Earl M, Law.....	Seattle
Hinkle, Van R, LA.....	Olympia	Holmes, Elmor, LA.....	Centralia
Hinckley, Kathryn, FA.....	Seattle	Holmes, Lionel, LA.....	Seattle
Hinckley, Martha, FA.....	Seattle	Holmes, Robert A, LA.....	Longview
Hinsdale, Edwin C, Fsh.....	Seattle	Holmstrom, John, Engr.....	Seattle
Hinman, Lorene, Grad.....	Yakima	Holsman, Allen, LA.....	Seattle
Hirakawa, Joe T, LA.....	Japan	Holt, Alice, LA.....	Seattle
Hirata, Charles, LA.....	Baker, Ore	Holt, Evans G, FA.....	Spokane
Hirose, Mary, LA.....	Auburn	Holt, Leta M, Edu.....	Spokane
Hirose, Ruby, Grad.....	Auburn	Holtzen, Lora N, LA.....	Seattle
Hirota, Haruo, FA.....	Seattle	Holton, Ruth O, Bus.....	Seattle
Hirschbull, Katherine Mary, LA.....	Portland, Ore	Holtz, Lloyd, LA.....	Seattle
Hirschman, Joy, Sci.....	Seattle	Holway, Arrilita D, Sci.....	Seattle
Hirsch, E G, Engr.....	Seattle	Holway, Theodore W, Fsh.....	Seattle
Hisayasu, George S, Engr.....	Seattle	Hone, Walton, Bus.....	Seattle
Hisayasu, Mary, Bus.....	Seattle	Hood, John S, Sci.....	Bellingham
Hitchings, George H, Grad.....	Seattle	Hood, Lois G, LA.....	Ferndale
Hitchman, Robert, LA.....	Seattle	Hoof, Clifford, LA.....	Bellingham
Hitt, Dorothy G, LA.....	Seattle	Hooker, Harry L, LA.....	Seattle

Hope, Mnefried A, Sci.....	Redmond	Huey, Robert A, Bus.....	Tacoma
Hopkins, Adeline F, Bus.....	Creston	Huff, Elizabeth H, LA.....	Seattle
Hopkins, Alden G, Bus.....	Hartford	Huff, Elizabeth Naomi, FA.....	Baker, Ore
Hopkins, Kllns, Engr.....	Seattle	Huff, Fred, Sci.....	Seattle
Hopkins, Harriet B, LA.....	Carbonado	Huff, Helen M, LA.....	Seattle
Hopkins, Vera A, FA.....	Hartford	Huff, Ralph H, Sci.....	Bellingham
Hopp, Howell C, Law.....	Seattle	Huffine, Sherman, LA.....	Seattle
Hopper, Cecell M, Engr.....	Sedro-Woolley	Huffine, Walter, Engr.....	Seattle
Hopper, Dorthie N, Sci.....	Wapto	Huffman, Aletha, LA.....	Yakima
Hopper, Marion, Sci.....	Seattle	Huffman, Eugene H, Grad.....	Denver, Colo
Hopstock, Gertrude C, LA.....	Seattle	Huffman, Kathleen, LA.....	Longview
Horishige, Hana, Pharm.....	Seattle	Hughes, Annie E, LA.....	Seattle
Horn, Carlyle E, Bus.....	Tacoma	Hughes, James B, Engr.....	Spokane
Horn, Erling, Engr.....	Seattle	Hughes, Joseph L, Law.....	Wenatchee
Horn, Margaret, Sci.....	Everett	Hughes, Katherine W, Libr.....	Bellingham
Horn, Tory, Engr.....	Seattle	Hughes, Lillian, FA.....	Spokane
Hornberg, Charles V, Engr.....	Newcastle	Hughes, Mary Angela, FA.....	Seattle
Hornbuckle, Stanley, Bus.....	Sedro Woolley	Hughes, Nicholas P, LA.....	Seattle
Horning, Allan E, Engr.....	Anchorage, Alaska	Hughes, Owen P, Law.....	Seattle
Hornstra, Fred H, Edu.....	Seattle	Hughes, Robert G, LA.....	Vancouver
Horowitz, Meyer, LA.....	Seattle	Huhta, Edwlu E, LA.....	Houquam
Horr, Carl R, Bus.....	Portland, Ore	Huhta, Elmer, LA.....	Houquam
Horsfall, Jane, LA.....	Seattle	Hulse, May Watts, Sci.....	Seattle
Horsfall, Wm L, LA.....	Seattle	Hulet, Howard F, Bus.....	Seattle
Horsky, Chas, LA.....	Montana	Huletz, Edw, LA.....	Seattle
Horst, Flora, FA.....	Seattle	Hull, Geo H, Bus.....	Seattle
Horstman, Elizabeth, LA.....	Port Angeles	Hull, James, Engr.....	Dupont
Hosford, Jack W, LA.....	Seattle	Hull, Margaret, LA.....	Spokane
Hoshide, Masua S, Fsh.....	Seattle	Hull, Richard D, Bus.....	Bremerton
Hoshino, Helen, Pharm.....	Pendleton	Hull, Ronald R, LA.....	Yakima
Hoska, Helen, FA.....	Tacoma	Hullinger, John T, LA.....	Seattle
Hotaling, John C, LA.....	Miles City, Mont	Hulme, Inez, FA.....	Seattle
Hotta, Harry, LA.....	Seattle	Hultgrenn, Elart, Jour.....	Sprague
Hotta, B Masako, Libr.....	Seattle	Humes, J Donald, Engr.....	Tacoma
Houger, Norman, Engr.....	Creston	Humes, Tom R, LA.....	Seattle
Hough, Ted, Pharm.....	Snoqualmie	Humphrey, Bernedine, Sci.....	Seattle
Hougen, Esther, Grad.....	Mission City, BC	Humphrey, Genevieve, FA.....	Seattle
Houglund, Dorothy, LA.....	Seattle	Humphrey, Omar J Jr, Bus.....	Seattle
Houghton, Louise, FA.....	Boone, Ia	Humphrey, Ruby, Bus.....	Seattle
Houk, Theodore, Sci.....	Centralia	Humphreys, Vera A, Bus.....	Steptoe
Houlahan, Anne E, Sci.....	Seattle	Humphries, J Orville, LA.....	Spokane Bridge
Houlton, Harold G, Sci.....	Seattle	Hunner, Richard C, Bus.....	Spokane
Houston, Evelyn L, FA.....	Seattle	Hunner, Wesley L, Bus.....	Spokane
Houston, Lawrence A, Engr.....	Enumclaw	Hunsald, Edgar, Bus.....	Willapa
Houtchens, Mary V, LA.....	Mt. Vernon	Hunt, Charlotte L, FA.....	Seattle
Houx, Mary Louise, LA.....	Longview	Hunt, Frances, LA.....	Tacoma
Hoverson, Ed, LA.....	Seattle	Hunt, George, Bus.....	Spokane
Howind, Harold A, FA.....	Spokane	Hunt, Harry R, LA.....	Seattle
Howard, Alma B, Sci.....	Seattle	Hunt, Katherine T, LA.....	Emmett, Ida
Howard, Douglas, Bus.....	Sprague	Hunt, Orlando G, Fsh.....	Kent
Howard, Edwin L, Bus.....	Stanwood	Hunt, Ruby H, LA.....	Kennydale
Howard, Frances Hyde, LA.....	Seattle	Hunt, Sarah, LA.....	Seattle
Howard, Mildred A, LA.....	Stanwood	Hunt, Sara P, Bus.....	Seattle
Howard, Oscar Jr, Engr.....	Joyce	Hunter, Betty M, Sci.....	Wenatchee
Howard, Ray Wm, LA.....	Renton	Hunter, Chas D Jr, Sci.....	Tacoma
Howard, Roy, LA.....	Renton	Hunter, Fred, LA.....	Spokane
Howard, C Wesley, Engr.....	Lyman	Hunter, Max R, Sci.....	Seattle
Howard, William S, LA.....	Seattle	Hunter, Maxine B, LA.....	Seattle
Howay, Jack, LA.....	Seattle	Hunter, Robert T, LA.....	Kennewick
Howe, Drayton F, Law.....	Seattle	Huntington, Ethel G, FA.....	Medina
Howe, Lawrence, LA.....	Seattle	Huntington, Marlon, Sci.....	Elbe
Howe, Wallace H, LA.....	Seattle	Hunziker, Alice, LA.....	Langley
Howell, Iras, FA.....	Seattle	Hupp, Glen, Bus.....	Seattle
Hower, Alice E, Sci.....	Seattle	Hurd, John H, LA.....	Seattle
Hower, John H, Sci.....	Waverly	Hurd, May, Grad.....	Seattle
Howes, Gertrude C, FA.....	Sheridan, Wyo	Hurd, Phyllis, LA.....	Honolulu
Howland, Earl A, Bus.....	Kirkland	Hurlburt, Frances M, Edu.....	
Howlett, Robert F, Bus.....	Seattle	Hurlbut, Clarence W, Sci.....	Bellingham
Hoxsie, Richard C, LA.....	Huntington Beach, Cal	Hurlbut, Harold C, Engr.....	Seattle
Hoyt, George W, Bus.....	Seattle	Hurley, Colla P, Edu.....	Seattle
Hoyt, Kathleen, FA.....	Seattle	Hurley, John M, Engr.....	Seattle
Hsung, Tse, LA.....	Seattle	Hurrell, Richard M, LA.....	Seattle
Hubback, Dorothy E, Engr.....	Seattle	Hurst, Ray, Engr.....	Seattle
Hubbard, F Coy, LA.....	Endicott	Hurst, Rea Ruth, LA.....	Spokane
Hubbard, Ruth Margaret, LA.....	Auburn	Hurwitz, Sadie, FA.....	Seattle
Hubbell, Leslie, LA.....	Spokane	Hutcheson, Betty, LA.....	Montesano
Hubert, Margaret C, LA.....	Butte	Hutchinson, Helen, Bus.....	Seattle
Huble, Ruth, Jour.....	Pasadena, Cal	Hurwitz, Simon, FA.....	Seattle
Hudgins, Martha L, LA.....	Yakima	Huseby, Harold C, Grad.....	Tacoma
Hudson, Chester A, LA.....	Seattle	Husted, Don, Law.....	Longview
Hudson, Robert D, Law.....	Yakima	Huston, Barbara M, LA.....	Hartford
Hue, Ruth, Sci.....	Pasco	Hutcheson, Hugh H, Engr.....	Seattle

Johnson, Alida R, LA.....	Seattle
Johnson, Anne I, LA.....	Ellensburg
Johnson, Arthur L, Bus.....	Seattle
Johnson, Betty, Sci.....	Seattle
Johnson, Carl A, Engr.....	Seattle
Johnson, Carl Henry, Pharm.....	Tacoma
Johnson, Cecil Wm, Engr.....	Seattle
Johnson, Clarence W, Engr.....	Seattle
Johnson, Dorothy A, Libr.....	Seattle
Johnson, Dorothy B, LA.....	Montesano
Johnson, Duer, Engr.....	Wluthrop
Johnson, Edna Mae, Sci.....	White Bluffs
Johnson, Edward E, LA.....	Bellingham
Johnson, Elmer E, Pharm.....	Tacoma
Johnson, Eleanor, Sci.....	Seattle
Johnson, Elizabeth H, FA.....	Blaine
Johnson, Ellis L, FA.....	Aberdeen
Johnson, Elmer G, LA.....	Seattle
Johnson, Elmer N, LA.....	Bellingham
Johnson, Eloise, Libr.....	Seattle
Johnson, Elsie Catherine, Bus.....	Iiwaco
Johnson, Emily H, Sci.....	Port Angeles
Johnson, Eric C, Sci.....	Seattle
Johnson, Florence E, Sci.....	Seattle
Johnson, Florence M, Sci.....	Seattle
Johnson, Geda, Sci.....	Tacoma
Johnson, James Wm, For.....	Knoxville, Tenn
Johnson, Joseph N, LA.....	Silverdale
Johnson, M Genevieve, FA.....	Seattle
Johnson, Grace A F, LA.....	Seattle
Johnson, Hall L, LA.....	Seattle
Johnson, Harold, Engr.....	Tacoma
Johnson, Hazel J, LA.....	Iiwaco
Johnson, Helena, Sci.....	Iiwaco
Johnson, James A, Engr.....	Seattle
Johnson, Kenneth G, Engr.....	Seattle
Johnson, Lars, Bus.....	Lakewood
Johnson, Leroy, Bus.....	Seattle
Johnson, Lyman W, LA.....	Cupertino, Cal
Johnson, Margaret E, LA.....	Portland, Ore
Johnson, Mildred E, Bus.....	Seattle
Johnson, Mildred B, FA.....	Seattle
Johnson, Milton S, Grad.....	Seattle
Johnson, Murray V, Engr.....	Seattle
Johnson, Nettie R, Sci.....	Seattle
Johnson, Oliver E, Engr.....	Seattle
Johnson, Ralph Moore, LA.....	Santa Monica, Cal
Johnson, Ray L, Law.....	Seattle
Johnson, Raymond G, Engr.....	Oakland, Cal
Johnson, Richard P, Sci.....	Seattle
Johnson, Robert E, Jour.....	Seattle
Johnson, Robert W, LA.....	Helena, Mont
Johnson, Roger J, Bus.....	Seattle
Johnson, Ronald F, LA.....	Burlington
Johnson, Roy W, Bus.....	Puyallup
Johnson, Roy W, Engr.....	Seattle
Johnson, Selma O, Bus.....	Seattle
Johnson, Sloane, Bus.....	Vancouver, BC
Johnson, Stanford, Engr.....	Seattle
Johnson, Stanley R, For.....	Seattle
Johnson, Sterling, Engr.....	Farma, Ida
Johnson, Verner W, Bus.....	Seattle
Johnson, C Vinston, LA.....	Wakefield, Nebr
Johnson, Virginia, FA.....	Seattle
Johnson, Vivian, Edu.....	Olympia
Johnson, Walter A, LA.....	Cathlamet
Johnson, Wilber R, Bus.....	Seattle
Johnson, Willard C, Bus.....	Tacoma
Johnson, Charles R, LA.....	Ellensburg
Johnston, Bernice, Sci.....	Bolse, Ida
Johnston, Charles Jay, Bus.....	Seattle
Johnston, Frederick Allen, Sci.....	Seattle
Johnston, Henry, Law.....	Seattle
Johnston, Iris F, Libr.....	Ritzville
Johnston, Max V, Engr.....	Seattle
Johnston, Vilas C, Bus.....	Seattle
Johnston, William R, Sci.....	Seattle
Johnstone, Charles W, Engr.....	Seattle
Johnstone, Florence M, Bus.....	Seattle
Joiner, William, Bus.....	Mt Vernon
Jolley, Irving Sci.....	Seattle
Jolliff, Louis, Sci.....	Olympia
Jolly, Elma M, LA.....	Seattle
Jonas, Carl, Bus.....	Puyallup
Jones, Aunie Laurie, Edu.....	Cle Elum
Jones, Bernice, LA.....	Seattle
Jones, Carol L, FA.....	Honolulu
Jones, Catherine, LA.....	Seattle
Jones, Catherine E, LA.....	Whiteriver, Ariz
Jones, Charles G, FA.....	Spokane
Jones, Charlotte A, FA.....	Seattle
Jones, R De Witt, LA.....	Stevenson
Jones, Dorothy A, FA.....	Dayton
Jones, Edna M, LA.....	Sturgis, SD
Jones, Edwin A, Engr.....	Wenatchee
Jones, Elinor, Libr.....	Sand Point
Jones, Elizabeth D, Sci.....	Seattle
Jones, Elizabeth M, FA.....	Seattle
Jones, Elizabeth S, Sci.....	Seattle
Jones, Elton B, LA.....	Camas
Jones, Florence G, LA.....	Seattle
Jones, Helen, LA.....	Sturgis, SD
Jones, Ivor, Pharm.....	Seattle
Jones, Keith, For.....	Wluthrop
Jones, Lydia R, Edu.....	Renton
Jones, Madeline D, LA.....	Edison
Jones, Mildred Ellnor, Sci.....	Waterville
Jones, Ralph P, LA.....	Seattle
Jones, Richard F, Bus.....	Wenatchee
Jones, Ralph Leslie, Mines.....	Seattle
Jones, Robert Arthur, LA.....	Mt Vernon
Jones, Vida, Grad.....	Portland, Ore
Joulentz, Madeline M, Sci.....	Orilla
Jordan, Gerald M, LA.....	Los Angeles, Cal
Jordan, John A, Bus.....	Everett
Jordan, John S, LA.....	Seattle
Jordan, Llewellyn S, LA.....	Seattle
Jordan, Thomas B L, LA.....	Seattle
Jorgensen, Betty, LA.....	Seattle
Jorgensen, Erna M, LA.....	Seattle
Jorgensen, Paul S, Pharm.....	Naches
Josenhans, Sarah C, LA.....	Seattle
Joseph, Jean, Bus.....	Seattle
Joseph, Ruth, FA.....	Seattle
Joubert, Edw R, LA.....	Seattle
Joughin, Virginia, LA.....	Libby, Mont
Joukovsky, Victor, Engr.....	Seattle
Jourdan, Harry, LA.....	Seattle
Joyce, Robert W, Engr.....	Seattle
Judd, Margaret M, LA.....	Seattle
Judge, Thomas H, Sci.....	Seattle
Judkins, David H, For.....	Seattle
Judkins, John R, Bus.....	Seattle
Judkins, Malcolm, Engr.....	Seattle
Jue, Alex, FA.....	Portland, Ore
Jue, Willard G, Pharm.....	Seattle
Jule, Walter, Bus.....	Seattle
Julien, Glenden H, Sci.....	Enumclaw
Juukichi, Fujimoto, Bus.....	Japan
Jusselt, Alfred B, LA.....	Wilkeson
Kadish, Maurice, LA.....	Seattle
Kahan, Phil, Engr.....	Seattle
Kahn, Helen, Grad.....	Seattle
Kahn, Claire A, LA.....	Boise, Ida
Kahn, Fred, LA.....	Oakland, Cal
Kaiser, Pauline, LA.....	Aberdeen
Kainulainen, E M, Engr.....	Pearson
Kalenius, Charles O, LA.....	Hoquiam
Kalin, Isadore, Bus.....	Spokane
Kaiser, James, For.....	Mukilteo
Kamps, Charles A, Bus.....	Post Falls, Ida
Kanacan, Martha, LA.....	Iiwaco
Kanaya, Toshiji, Sci.....	Seattle
Kanazawa, Joseph T, LA.....	Seattle
Kanda, Yoshiharu, Sci.....	Seattle
Kanno, Kinji, Engr.....	Seattle
Kaplan, Alex S, Law.....	Seattle
Karlsson, Eva, Sci.....	Seattle
Karlstén, Eric G, Sci.....	Spokane
Karlstén, Robert T, Bus.....	Spokane
Karr, Payne, LA.....	Seattle

Karshner, Edwin J, Bus.....	Aberdeen	Kesner, Claude, Bus.....	Seattle
Karshner, Warren M, Grad.....	Puyallup	Ketcham, Dorothy, LA.....	Seattle
Kashiwagi, S G, Pharm.....	Seattle	Ketcham, Ed, LA.....	Seattle
Kasebaum, Karl F, LA.....	Seattle	Ketcham, Ethel R, LA.....	Seattle
Katayama, Elmer J, Bus.....	Seattle	Ketcham, Mary Virginia, FA.....	Seattle
Katayama, Lillian Y, LA.....	Seattle	Ketchum, Lela May, Bus.....	Seattle
Kato, Michiomi, Pharm.....	Japan	Ketner, Robert N, Engr.....	Tacoma
Katzenmeyer, Rosalie, LA.....	Seattle	Kettenbach, Wilhelmina, FA.....	Lewiston, Ida
Kaufman, Gretchen, Sci.....	Bellingham	Kettenring, Fred M, Min.....	Vancouver
Kaufman, Wavie, LA.....	Seattle	Kettenring, R L, Engr.....	Seattle
Kauffman, Bert, LA.....	Concrete	Keys, Herman J, LA.....	Spokane
Kavanaugh, Clarence E, FA.....	Everett	Keyser, Dorothy M, LA.....	Seattle
Kay, Roy H, Engr.....	Seattle	Khvoroff, Victor, Engr.....	Russia
Kaye, David, Sci.....	Spokane	Kibbe, Merle H, FA.....	Bellingham
Kaynor, Gilbert, LA.....	Ellensburg	Kidd, William Robt, For.....	Seattle
Keyser, Elizabeth, LA.....	Seattle	Kidder, Eleanor, LA.....	Muchlito
Kearns, Mary M, Sci.....	Spokane	Kieburz, J Richard, For.....	Seattle
Kearns, Oliver, Engr.....	Seattle	Kiehl, Harold, Bus.....	Seattle
Keating, Eleanor, FA.....	Wallace, Ida	Kiehlbaucht, Howard W, Sci.....	Seattle
Keeler, Edward C, Engr.....	Seattle	Kiel, Henry, LA.....	Ferndale
Kehril, Walter, LA.....	Hillsdale, Ore	Kielland, Lelf B, LA.....	Seattle
Keene, Robert A, LA.....	Seattle	Kiely, John B, Engr.....	Tacoma
Kellholtz, Ralph, Engr.....	Seattle	Kienast, Celeste N, LA.....	Bellingham
Kelth, Gwendolyn H, LA.....	Seattle	Kienast, Vera, LA.....	Bellingham
Kelth, Ted, Engr.....	Battle Ground	Kilgore, Carleton, V, LA.....	Tillamook, Ore
Kelez, George B, Fsh.....	Seattle	Kilkenny, Mae, LA.....	Heppner, Ore
Kelez, I Marion, FA.....	Seattle	Kilkenny, William P, Bus.....	Heppner, Ore
Kelleher, Marion, LA.....	Seattle	Killea, Frances L, Pharm.....	Seattle
Keller, Jack D, LA.....	Seattle	Killen, Evelyn F, LA.....	Seattle
Keller, Raymond F, Engr.....	Douglas, Alaska	Killian, Rosemary, LA.....	Moodus, Conn
Keller, Virgil A, Law.....	Seattle	Killien, Francis G, Law.....	Lowell
Kellerman, Katherine, Sci.....	Seattle	Kilworth, Ruth, Jane, LA.....	Seattle
Kelley, Albert H, LA.....	Seattle	Kimball, Hiram, LA.....	Seattle
Kelley, Elizabeth, LA.....	Seattle	Kimball, Jessie Mary, Grad.....	Seattle
Kelley, Thomas L, Engr.....	Seattle	Kimmel, Evelyn, LA.....	Spokane
Kelley, Warren T, Engr.....	Corvallis, Ore	Kimmerle, Forest E, Sci.....	Seattle
Kellogg, Evelyn, LA.....	Mercer Island	Kimura, Tadao, LA.....	Seattle
Kellogg, John A, LA.....	Bellingham	Kindred, Grace, FA.....	Seattle
Kellogg, Martin V, FA.....	Seattle	Kine, Jack, FA.....	Spokane
Kellogg, Ruth, LA.....	Seattle	Kinerk, Harry E, Engr.....	Seattle
Kellogg, Virginia, LA.....	Hoquiam	King, Dorothy, Grad.....	Puyallup
Kelly, Clara J, Sci.....	Seattle	King, Esther, LA.....	Seattle
Kelly, Edgar, Pharm.....	Seattle	King, Frank William, Sci.....	Seattle
Kelly, Emmet F, Engr.....	Seattle	King, Harold G, Law.....	Walla Walla
Kelly, Eugene, LA.....	Walla Walla	King, Lillian M, Grad.....	Seattle
Kelly, Evelyn, Sci.....	Seattle	King, Oliver F, LA.....	Seattle
Kelly, Georgia, LA.....	Seattle	King, Robert William, Grad.....	Seattle
Kelly, Jack, Engr.....	Seattle	King, Virginia, FA.....	Seattle
Kelly, Jean Mary, LA.....	Tacoma	Kingma, Gerben, Engr.....	Oak Harbor
Kelly, John, Bus.....	Walla Walla	Kingston, George R, Sci.....	Seattle
Kelly, Myra, LA.....	Seattle	Kingston, Roy M, LA.....	Seattle
Kelly, Virginia, LA.....	Walla Walla	Kingston, Ross N, Law.....	Seattle
Kelsey, Louise A, Edu.....	Spokane	Kinkade, Roy R, LA.....	Forsyth, Mont
Kemp, Maurine, FA.....	Oto, Ia	Kinkade, Ward N, LA.....	Forsyth, Mont
Kempkes, Josephine, LA.....	Everett	Kinkead, J Calvin, Engr.....	Toledo
Kempster, Elizabeth, LA.....	Seattle	Kinnear, George, LA.....	Seattle
Keniston, Leah L, Edu.....	Everett	Kinner, Kent A, LA.....	Seattle
Kennedy, Aileen M, FA.....	Pe Ell	Kinney, Gladys, Bus.....	Seattle
Kennedy, Aileen, LA.....	Seattle	Kinney, Thos C, Bus.....	Seattle
Kennedy, Don W, Bus.....	Seattle	Kinsey, Doris, FA.....	Seattle
Kennedy, Marion, Sci.....	Seattle	Kinsey, Helen, Libr.....	Seattle
Kennedy, Muriel, LA.....	Seattle	Kinsey, Ronald C, Law.....	Seattle
Kennedy, Peter J, LA.....	Seattle	Kinzel, Lura, FA.....	Seattle
Kennelly, Bernice E, Bus.....	Seattle	Kinzel, Maurice W, Law.....	Seattle
Kennicott, Frances C, LA.....	Chehalis	Kipp, Mildred, FA.....	Seattle
Kenny, James E, Engr.....	Victoria, BC	Kirk, Charles G, LA.....	Seattle
Kenny, Thomas F, LA.....	Butte, Mont	Kirk, Lavern, Bus.....	Bothell
Kenyon, Frank Walter, Engr.....	Monroe	Kirk, Margaret, Edu.....	Yakima
Kent, Omer James, LA.....	Walla Walla	Kirk, Paul, LA.....	Tacoma
Kenyon, Ethel Mae, Edu.....	Upham, ND	Kirker, Ruth S, LA.....	Toppenish
Kenyon, Jennie E, Sci.....	Bremerton	Kirkham, M Bernice, Grad.....	Seattle
Kenyon, Juanita, Sci.....	Bremerton	Kirkpatrick, Dahl J, For.....	Randle
Kenyon, Helen, LA.....	Seattle	Kirkpatrick, Earl, LA.....	Chehalis
Kenyon, Marcus Monroe, Sci.....	Toppenish	Kirkpatrick, Geo A, Engr.....	Portland, Ore
Kenyon, Margaret L, Sci.....	Bremerton	Kirkwood, Marion M, Sci.....	Toppenish
Kergan, Phyllis, FA.....	Seattle	Kirner, John F, Bus.....	Squim
Kerus, Ray F, Pharm.....	Seattle	Kirsh, Lucille B, Bus.....	Everett
Kerr, Stuart, LA.....	Seattle	Kirshman, Mabel M, Sci.....	Mt Vernon
Kerrigan, Sylvia F, Grad.....	Seattle	Kirshner, Gussie, Sci.....	Portland, Ore
Kerschner, Cleo P, Fsh.....	Centerville, Ia	Kiser, Rufus W, For.....	Wenatchee
Kessler, Rhea, FA.....	Seattle	Kitayama, Hideo, FA.....	Seattle
Keastle, Velma A, LA.....	Seattle	Kittredge, Dave, LA.....	Seattle

Kittell, George H, Grad.....	Seattle
Kittrell, Jack W, Engr.....	Everett
Kizer, Agnes Petra, LA.....	Kelso
Kizer, Edith, LA.....	Spokane
Kjorlien, Bernice, Sci.....	Seattle
Klaasen, Marie, Sci.....	Seattle
Klamke, Alexis G, Sci.....	Seattle
Klapp, John Carl, Pharm.....	Everett
Klaus, Barbara Frances, Edu.....	Granite Falls
Klein, David, Bus.....	Seattle
Klein, Margaret, LA.....	Seattle
Kleinlein, Esther M, Sci.....	Seattle
Kleinlein, Max P, Fsh.....	Seattle
Kleinlein, Oscar, Fsh.....	Seattle
Kleinlein, Vera E, LA.....	Seattle
Kleinschmidt, Helen, LA.....	Seattle
Klemme, Marvin, For.....	Longview
Klemptner, Ellen, Edu.....	Seattle
Kline, Theresa F, LA.....	Seattle
Klinefelter, Melvin T, Bus.....	Seattle
Klorin, Mark Z, LA.....	China
Klock, Charlotte, LA.....	Seattle
Klock, Helen W, Sci.....	Seattle
Kloth, Marian, FA.....	Seattle
Klumpp, Lloyd E, Bus.....	Portland, Ore
Knaapp, Eva G, Edu.....	Lake City
Knapp, Helen, LA.....	Seattle
Knight, Annalou, LA.....	Seattle
Knight, Harold, Bud.....	Seattle
Knight, Homer, LA.....	Seattle
Knight, Rebecca S, Grad.....	Seattle
Knlpe, Edward B, LA.....	Burlington
Knosher, Vernon, LA.....	Goldendale
Knott, Emma Louise, FA.....	Seattle
Knowles, Chad, Bus.....	Seattle
Knudsen, Arthur, Bus.....	Seattle
Knudsen, John T, Sci.....	Spokane
Knudsen, Clarence, Bus.....	Everett
Knutson, Marie L, LA.....	Seattle
Knudsen, Olga Marie, Sci.....	Seattle
Kobe, Masatsugu, Pharm.....	Japan
Koch, Edwin, LA.....	Seattle
Koch, Gertrude, FA.....	Olympia
Koch, Rabbi Samuel, Grad.....	Seattle
Koda, Katsuhro, Engr.....	Seattle
Koehne, Marion P, Sci.....	Seattle
Koenigsberg, Leo M.....	Seattle
Koerner, Court L, Engr.....	Spokane
Koerner, Mursa Riddell, Grad.....	Seattle
Koester, Virginia, Bus.....	Seattle
Koger, Dorothy M, FA.....	Sun River, Mont
Kohlruss, Fred J, Sci.....	Seattle
Kohler, Francis B, FA.....	Seattle
Koitabashi, Chika, FA.....	Seattle
Koivisto, Don, Fsh.....	Astoria, Ore
Kolbe, Robert A, Engr.....	Vancouver, BC
Kollmor, Robert E, Engr.....	Seattle
Kolloen, Lawrence, Fsh.....	Seattle
Kolstad, Beatrice Mae, Sci.....	Seattle
Kondo, Tokuo, Bus.....	Seattle
Konschot, Ruth, LA.....	Kent
Koon, Palmer D, FA.....	Spokane
Koppang, Given A, Bus.....	Kallispell, Mont
Korin, Herman J, Sci.....	Seattle
Kosaka, Hannah H, LA.....	Seattle
Kossiakoff, Ivan T, Engr.....	Seattle
Koski, Sigrid J, Phar.....	Aberdeen
Kostenbader, Orpha, Sci.....	Sunnyside
Koth, Everett, Sci.....	Odessa
Kotschevar, Lendal H, Bus.....	Auburn
Kraetz, Earl, Fsh.....	Arlington
Kraft, Carl Wm Jr, Pharm.....	Silver Bow, Mont
Kramer, Arthur, Engr.....	Ritzville
Kramer, Ferdinand, LA.....	Ritzville
Krangnes, Bert, LA.....	Mt Vernon
Krasnoff, Harry, FA.....	Seattle
Kraus, Ada Maud, Grad.....	Seattle
Kraus, LeRoy J, Bus.....	Vancouver
Krause, August J, Engr.....	Seattle
Kravik, K E, LA.....	Everett
Krebs, Frederick W, Engr.....	Seattle
Kreger, George H, Engr.....	Tacoma
Kretsinger, Helen M, Grad.....	Seattle
Kreigel, Henry, Bus.....	Seattle
Kriegel, W Wurth, Engr.....	Seattle
Kreger, William G, FA.....	Seattle
Kroetich, Gertrude C, FA.....	Spokane
Krogstad, John C, Bus.....	Seattle
Krogstad, Ralph, Bus.....	Seattle
Krone, Arnold, LA.....	Hollywood
Kruger, Blanche, FA.....	Portland, Ore
Kruger, Kay, LA.....	Seattle
Krueger, Mary, LA.....	Seattle
Kruse, Lloyd, FA.....	Seattle
Kuang, Wesley K, Grad.....	China
Kucher, Charlotte L, LA.....	Seattle
Kucher, Elva, LA.....	Seattle
Kuehn, Frank W, Bus.....	Snohomish
Kuentzel, Katherine A, Sci.....	Seattle
Kuhfuss, Betty, LA.....	Wenatchee
Kuhfuss, Helen Mary, Sci.....	Wenatchee
Kuhn, Bertha M, Grad.....	Beach, ND
Kuker, Anna E, LA.....	Seattle
Kumata, Masaru, Engr.....	Seattle
Kumler, Frances E, FA.....	Yakima
Kumler, Marjorie C, LA.....	Seattle
Krumm, Hulda Emily, Grad.....	Milwaukee, Wis
Kunde, Norman F, Edu.....	Minneapolis, Minn
Kuniholm, Eugene, Sci.....	Seattle
Kurbitz, Kenneth W, Pharm.....	Yakima
Kurokawa, Fumi, LA.....	Seattle
Kurtzer, Laverne E, LA.....	Edmonds
Kushi, Makil, FA.....	Seattle
Kuttner, Ben D, Bus.....	Spokane
Kuykendall, Jerome, LA.....	Pomeroy
Kwapil, Dorothy, LA.....	Seattle
Kwapil, Helen Marie, LA.....	Seattle
Kwapil, Richard, Bus.....	Seattle
Kyle, James H, Law.....	Seattle
Kynell, Hurben F, Bus.....	Anacortes
Kyselka, Madeline M, LA.....	Tulalip
LaBrache, Wendell P, LA.....	Los Angeles, Cal
Labry, L Katherine, LA.....	Los Angeles, Cal
Lacey, Thelma H, Grad.....	Seattle
Lacklund, Donald L, FA.....	Canyon, Ida
Lackstrom, Einer, Bus.....	Seattle
Lafranchi, Vincent, Engr.....	Seattle
Lagazo, Teofilo L, Engr.....	Philippines
Lage, Louise, M, LA.....	Seattle
Lager, Maxwell G, Sci.....	Gogebic, Mich
Lagpacan, Buenaventure, Bus.....	Seattle
Laigo, Robert, Sci.....	Philippines
Laing, Harold, Bus.....	Seattle
Laird, Robert G, Bus.....	Seattle
Laird, Thelma L, Grad.....	Seattle
Lake, Clark B, Engr.....	Seattle
Lake, Florence Estella, LA.....	Spokane
Lake, Harold C, For.....	Carnation
Lamb, Robert, LA.....	Seattle
Lambert, Ellen, Law.....	Aberdeen
Lambert, Jack, FA.....	Sumas
Lambrecht, Jeannette, Bus.....	Seattle
La Mont, Loyal, LA.....	Seattle
La Montagne, Frances A, LA.....	Kirkland
Lamprey, Headlee, Engr.....	Seattle
Lamson, Robert, Engr.....	Sultan
Lancour, A Harold, LA.....	Seattle
Landaal, Lester H, Edu.....	Seattle
Landauer, Joseph, LA.....	Seattle
Landgraf, Carl H, Engr.....	Seattle
Landgraf, Louise, Bus.....	Little Rock
Landon, L Evert, Sci.....	Tacoma
Landon, George Engr.....	Seattle
Landon, Herbert O, Law.....	Seattle
Landreth, Harold D, LA.....	Spokane
Landstrom, Lorraine, LA.....	Seattle
Lane, Herbert J, LA.....	Aberdeen
Lane, James F, LA.....	Seattle
Lane, Margaret, LA.....	Custer, SD
Lang, Joseph W, Engr.....	Yakima
Lang, Verna H, Sci.....	Everett
Lange, Bernice, Engr.....	Seattle

Lang, Dorothy, LA.....	Seattle
Langdon, Ruth M, LA.....	Renton
Lange, Theodore W, LA.....	Wenatchee
Langford, Susie C, LA.....	Seattle
Langle, Howard, LA.....	Seattle
Langle, J Winfield, Bus.....	Seattle
Langloitz, Conrad, LA.....	Walla Walla
Langoey, Alejandro, LA.....	Philippines
Langsdorf, Gaynor H, Engr.....	Vancouver
Lanken, Nicholas, Engr.....	Siberia
Lant, J Glen, Engr.....	Bellingham
Lansdowne, Elizabeth, Grad.....	Everett
Lantz, Harold G, Bus.....	Spokane
LaPlant, Catherine, LA.....	Sedro Woolley
Lapierre, Albert, Bus.....	Seattle
Larkin, Edward J, Bus.....	Aberdeen
Larned, Grant, LA.....	Seattle
Larrick, Lewis, Grad.....	Enid, Okla
Larsen, Alf M, Bus.....	Seattle
Larsen, Christine A, Sci.....	Seattle
Larsen, Elizabeth, LA.....	Seattle
Larsen, Irene M, LA.....	Duvall
Larsen, Irene, LA.....	Seattle
Larsen, Louis A, Engr.....	Lyden
Larsen, Margaret, Bus.....	Seattle
Larsen, Ruth M, LA.....	Seattle
Larsen, Vernon O, For.....	Alderwood Manor
Larson, Dave R, Bus.....	Seattle
Larson, Eleanor, LA.....	Seattle
Larson, Harriet, LA.....	Chateau, Mont
Larson, Ilene, LA.....	Seattle
Larson, Marjorie, LA.....	Spokane
Larson, Norman F, Engr.....	Seattle
Larson, Richard C, Bus.....	Seattle
Larson, Wilbur, FA.....	Seattle
Lasater, Jane, LA.....	La Center
Lasuler, Evelyn L, LA.....	Seattle
Lassek, Arthur, Sci.....	Seattle
Latimer, Ray N, LA.....	Seattle
Latimer, Margaret, LA.....	Seattle
Latimer, Vernon G, LA.....	Seattle
Laube, Delora Lee, LA.....	Seattle
Laubscher, Ruth, LA.....	Seattle
Laucher, Louis J, Sci.....	Tacoma
Lauderdale, Katherine, Edu.....	Long Beach
Lauer, C E, Sci.....	Seattle
Lauer, Edna, LA.....	Odessa
Lauri, W A, Sci.....	Seattle
Laut, Harold, LA.....	Bellingham
Launzo, R K, For.....	Lowell
Lavers, Theo H, Engr.....	Seattle
Lawler, Marcella, LA.....	Raymond
Lawless, Ruth, Sci.....	Seattle
Lawrence, Alfred W, Engr.....	Hoquiam
Lawrence, Anne E, LA.....	Portland
Lawrence, Charles W, Grad.....	Seattle
Lawrence, Ednah, LA.....	Prosser
Lawrence, Jeannette, LA.....	Los Angeles
Lawry, George V, Engr.....	Palo Alto
Lawson, George W, LA.....	Seattle
Lawson, Sara, LA.....	Seattle
Lawton, Ruth M, FA.....	Seattle
Lawwill, Donn F, Law.....	Montesano
Layton, Clarence E, LA.....	Tacoma
Layton, E Gerald, Phar.....	Tacoma
Lea, Helen E, FA.....	Tacoma
Lea, Richard, LA.....	Seattle
Leach, Atherton, Fsh.....	Vancouver
Leach, Shirley W, Bus.....	Seattle
Leach, J Harvey, Edu.....	Kent
Lechner, Harwegh J, Grad.....	Seattle
Leach, Wilma, LA.....	Tacoma
Leaf, Alice, Grad.....	Seattle
Leaf, Grace M, LA.....	Kirkland
Leaf, Karl, LA.....	Seattle
Leak, Gladys, Sci.....	Seattle
Leako, Althea, Bus.....	Seattle
Leak, Lloyd Earnest, Bus.....	La Grande
Leape, Teresa, LA.....	Seattle
Leard, Mary, FA.....	Bremerton
Leathers, Margaret Franc, FA.....	Vancouver
Leavitt, Maxwell D, LA.....	Hastings, Minn
LeBlond, Nedra, LA.....	Seattle
Le Blond, Neva E, Bus.....	Seattle
LeClair, Howard J, Law.....	Seattle
Leckenby, Mollie E, LA.....	Seattle
Le Compte, Geo A, Sci.....	Shelton
Lee, S Allen, Bus.....	Vancouver, BC
Lee, Austa I, Edu.....	Enumclaw
Lee, Burling V, Edu.....	Spokane
Lee, Evelyn B, Edu.....	Ritzville
Lee, George O, Grad.....	Malibu
Lee, Helen, LA.....	Everett
Lee, Jerry G, LA.....	Seattle
Lee, Judith M, Grad.....	Seattle
Lee, John H, LA.....	Chelan
Lee, Leo R, Pharm.....	Seattle
Lee, Marie J, Sci.....	Seattle
Lee, Robert E, FA.....	Hawaii
Lee, Ruth, Grad.....	Newberg, Ore
Lee, Sam, Sci.....	Seattle
Lee, Samuel A, Bus.....	Seattle
Lee, Toon Yip, Bus.....	Vancouver, BC
Lee, Virginia L, LA.....	Seattle
Lee, Yone Ming, Bus.....	China
Leehoff, Herbert, LA.....	Seattle
Leedy, Virginia, Sci.....	Wenatchee
Leek, Mary L, Sci.....	Woodburn, Ore
Lees, Jane M, LA.....	Seattle
Legg, Audrey, Jour.....	Seattle
Lehde, Constance, LA.....	Seattle
Lehde, Ivy E, FA.....	Seattle
Lehner, Frank E, For.....	Spokane
Lehner, Kenneth A, Engr.....	Spokane
Lehman, Arnold J, Pharm.....	Seattle
Lehne, Florence C, LA.....	Seattle
Leidy, Gene, Bus.....	Seattle
Leighty, Earl, Bus.....	Seattle
Leisendecker, Margene, FA.....	Kent
Leik, Abigail P, FA.....	Seattle
Leipheimer, Marie L, Edu.....	Seattle
Leise, Clara N, Grad.....	Seattle
Leithend, Robert Corey, Engr.....	Seattle
Lemick, Michael F, Bus.....	Kellogg
Lemon, Doris, Sci.....	Waterville
Lemon, Joseph F, Engr.....	Skamania
Lenan, Ray D, Bus.....	Spokane
Lenfesty, Robert, Bus.....	Walla Walla
Lennox, Duncan S, Bus.....	Hawaii
Lenska, Philomena V, FA.....	Cle Elum
Lensrud, Mable, LA.....	Seattle
Leon, Albert, Pharm.....	Seattle
Leon, Gordon, Sci.....	Seattle
Leonard, Eva Mae, Grad.....	Cheshal
Leonard, Genevieve, LA.....	Seattle
Leonard, Leo, LA.....	Seattle
Leong, Stephen, LA.....	Portland, Ore
Lepper, Mildred E, Bus.....	Seattle
Lesh, Anna V, LA.....	Ellisport
Lesh, Richard C, LA.....	Seattle
Leslie, Dorcas, FA.....	Spokane
Leslie, Norma J, LA.....	Seattle
LeSourd, Frances A, Bus.....	Seattle
Lester, Bertha M, LA.....	Centralia
Letson, Chas F, Engr.....	Seattle
Lev, Lester L, Law.....	Los Angeles, Cal
Levar, Adolph, Bus.....	Renton
Leverenz, Naydene D, FA.....	Puyallup
Levi, Adelaide, Bus.....	Aberdeen
Levitin, Abe, Engr.....	Seattle
Levison, Genevieve C, LA.....	Seattle
Levy, Carolyn W, LA.....	Portland, Ore
Levy, Harold P, Jour.....	Seattle
Levy, Leah B, LA.....	Seattle
Levy, Richard R, Bus.....	Seattle
Levy, Robert E, LA.....	Seattle
Levy, Zelma, LA.....	Seattle
Lew, Lester, Bus.....	Seattle
Lewis, Adelaide F, LA.....	Seattle
Lewis, Arlel, FA.....	Seattle
Lewis, Clarke R, For.....	Seattle
Lewis, Clyde L, Bus.....	Raymond
Lewis, Edward M, Engr.....	Seattle
Lewis, Evelyn B, Sci.....	Issaquah

Lewis, Gertrude, Sci.....	Seattle	Lombard, Eunice W, LA.....	Yakima
Lewis, Hannah, LA.....	Seattle	Lombard, Henry, LA.....	Yakima
Lewis, Hunter C, Grad.....	Seattle	Lombard, Stewart, Law.....	Seattle
Lewis, John Baker, LA.....	Seattle	Loncke, Bertha, Bus.....	Summer
Lewis, Norman, LA.....	Spokane	Loncke, Madeline R, Bus.....	Summer
Lewis, Myra N, Sci.....	Seattle	London, Daniel, LA.....	Seattle
Lewis, Palmer G, Engr.....	Seattle	London, Jesse, LA.....	Seattle
Lewis, Robert D Jr, Bus.....	Seattle	Loners, E, Engr.....	Seattle
Lewis, Russel, Bus.....	Missoula, Mont	Loners, Harry, FA.....	Seattle
Lewis, Ruth, LA.....	Seattle	Loney, Mabel Henrietta, Sci.....	Ferndale
Lewkowitz, Dorothy, LA.....	Spokane	Long, James Glenn, Sci.....	Seattle
Leyman, Margaret, LA.....	Seattle	Long, Katherine, SH, LA.....	Seattle
Libbee, Frances, Sci.....	Seattle	Long, Lewis, LA.....	Seattle
Libert, Norman T, Pharm.....	Spokane	Long, Margaret E, LA.....	Seattle
Lich, Robert Jr, Sci.....	Fresno, Cal	Long, Paul, Engr.....	Mercer Island
Lieb, Edwin, LA.....	Mount Vernon	Long, Rita, LA.....	Seattle
Lievsay, J Lean, Grad.....	Seattle	Long, Robert E, LA.....	Spokane
Lieb, Thomas, LA.....	Mount Vernon	Long, Stanley B, Law.....	Chehalis
Lignell, Bina, Sci.....	Seattle	Longenbaugh, May M, LA.....	Seattle
Lightfoot, Frank N, For.....	Cosmopolis	Longfellow, Phyllis, LA.....	Seattle
Lilleo, Stuart F, Engr.....	Seattle	Longmoor, Justin E, For.....	Kansas City, Mo
Lillquist, Elma, LA.....	Seattle	Loop, Herbert, Engr.....	Shelton
Lilly, Jennie M, Sci.....	Bridgeport	Lopp, Alice M, Sci.....	Seattle
Limes, LeRoy, FA.....	Seattle	Lopp, Mary, LA.....	Seattle
Lincoln, John R, Bus.....	Seattle	Lorah, E A, Engr.....	Seattle
Lind, Carita C, LA.....	Seattle	Lorah, Paul D, LA.....	Seattle
Lindahl, Martin L, Grad.....	Seattle	Lord, Robert B, LA.....	Mount Vernon
Lindal, Royal J, LA.....	Seattle	Lorer, Joe M, Bus.....	Seattle
Lindberg, Caroline, LA.....	Tacoma	Loring, Amelia, Sci.....	Stevenson
Lindberg, Fred, FA.....	Seattle	Lotz, Donald, Engr.....	Seattle
Lindblom, Roy E, Grad.....	Seattle	Louge, Richard W, Sci.....	Seattle
Lindblad, Emil C, Bus.....	Bellingham	Louie, George, LA.....	Seattle
Linde, Carl A, Engr.....	Puyallup	Louie, Stanley, Pharm.....	Seattle
Linde, Margaret, LA.....	Puyallup	Love, Allen V Jr, LA.....	Seattle
Lindeman, Philip, FA.....	Honolulu	Lovegren, Lloyd, FA.....	High Point
Linderman, Paul, LA.....	Bellingham	Lovejoy, Fred B, Bus.....	Coupeville
Lindgren, Bert E, Fsh.....	Woodinville	Lovejoy, Leah C, Edu.....	Seattle
Lindholm, Beulah C, Sci.....	Seattle	Lovell, Edward A, Sci.....	Richmond Va
Lindman, Bertram H, Engr.....	Seattle	Lovering, Eleanor A, Bus.....	Seattle
Lindsey, Flavilla, Sci.....	Seattle	Low, Harold, LA.....	Hawaii
Lindsey, J J, For.....	Seattle	Lowe, Milton W, LA.....	Seattle
Lindsley, Eleanor, Edu.....	Bellingham	Lowry, Edmond, Bus.....	Chehalis
Lindstrom, Hilding C, Pharm.....	Seattle	Lowry, Thaddeus A, Bus.....	Polson, Mont
Lindstrom, William, Bus.....	Tacoma	Lowe, Ben F, Grad.....	Tacoma
Lingbloom, Harold A, LA.....	Seattle	Lowe, Carl M, LA.....	Arlington
Linger, Rudolph H, Engr.....	Yakima	Lowe, Dorothy F, Sci.....	Seattle
Linn, Vernon L, Bus.....	Sumas	Lowe, Edna Beatrice, LA.....	Seattle
Linnecke, Otto A, Bus.....	Spokane	Lowenstein, Bernard, Bus.....	Seattle
Linton, Geraldine, LA.....	Seattle	Lowry, Lorna A, Edu.....	Chehalis
Linville, Clyde W Jr, Law.....	St John	Lucas, Edward, LA.....	Seattle
Linville, Lawrence B, Bus.....	Seattle	Lucas, Eustagulo L, Engr.....	Philippines
Linville, Lawrence S, Bus.....	Wenatchee	Lucas, Marcello M, Bus.....	Philippines
Lippencott, Crispin, LA.....	Seattle	Lucas, O C, Sci.....	Seattle
Lippman, Sam, Pharm.....	Seattle	Lucas, Robert, LA.....	Seattle
Lirhus, Inga O, LA.....	Seattle	Luce, Dalsey A, LA.....	Seattle
Liston, Thos R, Sci.....	Orilla	Luch, Sarah E, Sci.....	Vancouver
Litchfield, Wallace, FA.....	Seattle	Lucht, William F Jr, Law.....	Spokane
Littel, Estella Marie, Edu.....	Centralia	Luckerath, Carl, Law.....	Seattle
Littel, Norman M, Grad.....	Seattle	Luckett, Alfred P, LA.....	Seattle
Little, Herbert, Grad.....	Seattle	Ludington, Kathryn, LA.....	Wenatchee
Little, Jean, LA.....	Honolulu	Ludwig, Eugene F, Engr.....	Seattle
Littlefield, Lena E, Grad.....	Seattle	Ludy, Phyllis, Sci.....	Los Angeles, Cal
Livers, Carlos B, Engr.....	Tooch, Utah	Luff, Elmo, Sci.....	Olympia
Livesley, Ethel W, LA.....	Seattle	Luke, Robert F, LA.....	Santa Barbara, Cal
Livingstone, David, Engr.....	Seattle	Lukes, Marion R, LA.....	Seattle
Llewellyn, Fred W, Bus.....	Seattle	Lukes, Janet, LA.....	Seattle
Loan, C W, Pharm.....	Seattle	Lum, Jackson, Bus.....	China
Lockitch, Percy A, Bus.....	Portland, Ore	Lumbard, Roy M, LA.....	Seattle
Lockwood, David E, Bus.....	Bremerton	Lund, Dorothy Irene, Sci.....	Seattle
Lockwood, Marie F, LA.....	Seattle	Lund, Curtis W, Engr.....	Seattle
Loder, Adelaide F, Bus.....	Sheridan, Wyo	Lund, Esther R, LA.....	Spokane
Loe, Ruth, LA.....	Yakima	Lunde, Helen, Sci.....	Poulsbo
Loewenstein, Elizabeth F, LA.....	Bellecom	Lundmark, O Vernon, Sci.....	Seattle
Loewing, Gilbert, Bus.....	Seattle	Lundstrom, Herbert F, Engr.....	Seattle
Lofgren, Frederick W, Pharm.....	Seattle	Lunn, Lois, FA.....	Seattle
Lofton, Donald B, Fsh.....	Lake Stevens	Lunnum, Knut, For.....	Silvana
Logan, Marjorie, Sci.....	Seattle	Luppert, Graetchen, Bus.....	Spokane
Logg, Florence M, Pharm.....	Seattle	Lurie, M Elsie, LA.....	Seattle
Logg, Mildred J, LA.....	Seattle	Luse, Vera M, Grad.....	Spokane
Lohman, R W, Engr.....	Seattle	Lutey, W G, LA.....	Seattle
Lohse, Dorothy, LA.....	Seattle	Luther, Philip, FA.....	Edmonds
Lohse, Louise, LA.....	Seattle	Lutterman, Beatrice, FA.....	Seattle

Lutterman, Byron, LA.....	Seattle
Lux, Lillian, FA.....	Wenatchee
Lyeurgus, Leo, LA.....	Hawaii
Lynch, Elizabeth, LA.....	Seattle
Lynch, Gordon B, FA.....	Seattle
Lynch, Herbert C, LA.....	Yakima
Lynch, John S Jr, LA.....	Olympia
Lynch, Josephine, LA.....	Seattle
Lynch, Margaret Jean, LA.....	Yakima
Lynden, Nova, Sci.....	Helena, Mont
Lynn, Austin, LA.....	Seattle
Lynn, Nathan, LA.....	Tacoma
Lyons, John H, LA.....	Seattle
Lyons, Mary, FA.....	Seattle
Lyons, Mary Louise, LA.....	Walla Walla
Lyst, Miriam, Edu.....	Elwood, Ind
Lytel, Alice Margaret, LA.....	Yakima
Lytel, Richard E, FA.....	Yakima
Lytle, Frankie A, LA.....	Tacoma
Lytle, Mary E, LA.....	Seattle
MacAdam, Georgia, LA.....	Seattle
McAfee, Lucius O, Grad.....	Natchitoches, La
McAllister, Charles, LA.....	Seattle
McAlpine, Eveleen, LA.....	Seattle
McAnally, Carrie, LA.....	Yakima
McAneny, John M, Engr.....	Seattle
MacArthur, Kenneth R, LA.....	Seattle
McArthur, Wm D, LA.....	Seattle
McAtee, Earl R, Bus.....	Vancouver
McBarron, Eleanor D, LA.....	Seattle
McCabe, Chas F, Engr.....	Seattle
McCabe, Julian C, For.....	Tonasket
McCaffery, Joe, LA.....	Spokane
McCall, Lillian G, LA.....	Mt Vernon
McCallister, George W, LA.....	Tulare, Cal
McCullum, Alex E, LA.....	Seattle
McCullum, Archie, Sci.....	Snohomish
McCullum, Donald S, LA.....	Sumner
McCullum, William G, LA.....	Anacortes
McCullum, W Gordon, Bus.....	Sumner
McCandlish, Virginia L, LA.....	Seattle
McCann, Joe J, Bus.....	Edmonds
McCanne, Gertrude E, FA.....	Seattle
McCargar, Amy F, LA.....	Seattle
McCart, Thelma, LA.....	Port Angeles
McCarthy, Corrinne E, Jour.....	Kelso
McCartney, Francine, LA.....	Seattle
McCarty Kenneth, Bus.....	Seattle
McCauley, Mary, FA.....	Aberdeen
McChesney, J Robert, Engr.....	Everett
McChesney, John Robert, Phar.....	Everett
McClain, Dorothy, Grad.....	Seattle
McClain, Edwin, Sci.....	Seattle
McClain, Hoyt N, LA.....	Covina, Cal
McClane, Roy W, For.....	Pt Townsend
McClarren, Donald W, Engr.....	Seattle
McClarren, Ralph H, Engr.....	Seattle
McClary, Harold W, For.....	Seattle
McClellan, Hortense, Jour.....	Seattle
McClelland, Martha, LA.....	Tacoma
McClelland, Victor, FA.....	Seattle
McClung, Edwin H, For.....	Bellingham
McClure, Geraldine, Sci.....	Kent
McClure, Willard, Grad.....	Seattle
McComas, Stanley, For.....	Anacortes
McConkey, Mrs J M, LA.....	Seattle
McConkey, Roy C, Phar.....	Shelton
McCord, Joe H, Sci.....	Olympia
McCormack, Kathryn, FA.....	Seattle
McCormick, Mary, Bus.....	Pinehurst
McCormick, C Thelma, FA.....	Portage
McCormick, Wilda, Bus.....	Seattle
McCormick, Wilbur, LA.....	Seattle
McCoun, Harold E, Engr.....	Tacoma
McCoy, Douglas D, LA.....	Seattle
McCoy, Floyd W, For.....	Washington, DC
McCoy, Kenneth M, LA.....	Spokane
McCracken, George R, Bus.....	Seattle
McCrady, J Edward, Bus.....	Concordia, Kans
McCreery, Robert T, Engr.....	Seattle
McCreery, Wm H, LA.....	Seattle
McCrery, Lester, LA.....	Dayton
McCue, Claude Leo, LA.....	California
McCulloch, Beale, Fsh.....	Seattle
McCullough, James B, Bus.....	Tacoma
McCulloch, Walter F, For.....	Kamloops, BC
McCutcheon, Wayne S, Engr.....	Bellingham
McCutchan, Vernon Jack, LA.....	Keokuk, Iowa
McDermott, Paul, LA.....	Pateros
McDaniels, Warren, FA.....	Portland, Ore
McDonald, Alice Isabel, LA.....	Salmon, Ida
McDonald, Basil, LA.....	Lacy
McDonald, Charlotte, LA.....	Seattle
McDonald, Colin, Bus.....	Seattle
McDonald, Donald N, FA.....	Seattle
McDonald, Russell H, Bus.....	Seattle
McDonald, J Ellis, Sci.....	Vancouver
Macdonald, Eudora, FA.....	Fairbanks, Alaska
McDonald, Frederick A, Sci.....	Seattle
McDonald, Georgene, LA.....	Seattle
McDonald, Harold J, Pharm.....	Aberdeen
MacDonald, Helen L, FA.....	Seattle
MacDonald, Howard D, Engr.....	Seattle
Macdonald, Howard R, LA.....	Seattle
Macdonald, Marie O, LA.....	Seattle
Macdonell, James, Law.....	Bellingham
Macdonald, Kenneth, For.....	Olympia
McDonald, Milton, Bus.....	Seattle
McDonald, Phyllis, LA.....	Seattle
MacDonald, Richard C, LA.....	Seattle
McDonald, Robert T, Bus.....	Pt Angeles
MacDonald, Verna A, Sci.....	Vancouver, BC
McDonnall, Vera, LA.....	Phillip, SD
MacDougall, Ronald R, Bus.....	Seattle
McDowell, Wallace, Pharm.....	Puyallup
McElhaney, Marie, FA.....	Tacoma
McElhoe, Albert B, Sci.....	Snoqualmie Falls
McEvilla, Katherine L, LA.....	Seattle
MacEwan, J D, LA.....	Seattle
McFaddin, Frances, Sci.....	Spokane
MacFadyen, William J, LA.....	Seattle
McFarland, Homer, FA.....	Sandpoint, Ida
McFarland, Margaret, LA.....	Seattle
McFarland, Maurine, Sci.....	Seattle
McFarlane, Adrian J, Bus.....	Seattle
McFarlane, Edith, FA.....	Brewster
McFarlane, Peter, Bus.....	Seattle
McGar, Talbot, Engr.....	Seattle
McGarry, K Patricia, FA.....	Seattle
McGee, Elizabeth, FA.....	Yakima
McGibbon, Donald, Bus.....	Seattle
McGibbon, John P, LA.....	Seattle
McGill, Andrew C, LA.....	Seattle
McGill, Charles M, Sci.....	Seattle
McGill, Ruth, LA.....	Seattle
MacGillivray, John D, LA.....	Spokane
McGinnis, Charlotte, LA.....	Seattle
McGinnis, Edith A, FA.....	Seattle
McGinnis, Florence I, FA.....	Edmonds
McGinnis, Mary, FA.....	Seattle
McGinnis, Mildred, LA.....	Auburn
McGinn, John F, Law.....	Bellingham
McGlinn, Olive, LA.....	Bellingham
McGrady, Patrick, Sci.....	Seattle
McGrath, Arthur H, Bus.....	Seattle
McGrath, Gertrude M, LA.....	Sitka, Alaska
McGrath, J Winton, Bus.....	Seattle
McGraw, Ema K, Bus.....	Tacoma
McGrew, June, LA.....	Long Beach, Cal
McGuire, Grace A, Grad.....	Seattle
McGuire, Wilbur L, Jour.....	Olympia
McHugh, Eileen, LA.....	Seattle
McHugh, Eola, LA.....	Seattle
McIntosh, Kenneth C, Bus.....	Everett
McIntosh, Leys, FA.....	Kent
McIntosh, Mildred, Grad.....	Omaha, Nebr
McIntosh, Phillip, Bus.....	Seattle
McIntyre, Alexander J, LA.....	Port Alberni, BC
McIntyre, Chas E, LA.....	Seattle
McIntyre, Cornelia H, FA.....	Honolulu
McIntyre, Elinor, LA.....	Seattle
McIvor, Sadie M, Bus.....	Seattle
McKasson, Clyde H, Sci.....	Seattle

McKay, Douglas D, For.....	Tacoma
McKay, Elizabeth M, Sci.....	Seattle
McKay, John Donald, Sci.....	Seattle
McKay, Kay, Bus.....	Seattle
McKee, L G, Fsh.....	Bellingham
McKee, Mary E, Grad.....	Seattle
McKee, Willbur R, Grad.....	Everett
McKelvey, Muir, Bus.....	Seattle
McKelvie, Mary, LA.....	Seattle
McKellar, Pierre A, Grad.....	Spokane
McKenney, Boyd, Fsh.....	Seattle
McKenney, Margaret, LA.....	Hoquiam
Mackenzie, Donald H, Grad.....	Seattle
Mackenzie, Jean, Bus.....	Seattle
McKenzie, Kenneth D, Bus.....	Seattle
McKenzie, William Bruce, Bus, Friday Harbor	
McKeown, Frank, LA.....	Seattle
McKeown, Mary, LA.....	Seattle
McKinley, Florence D, Grad.....	Seattle
McKinney, Mary, LA.....	Seattle
McKinlay, Frank, Engr.....	Seattle
McKinney, Waldo E, FA.....	Seattle
McKinnell, Eloise, Grad.....	Seattle
McKinnon, John A, Fsh.....	Seattle
McKinnon, Kay, LA.....	Seattle
McKinstry, Cecil H, Bus.....	Seattle
McKinstry, Gordon W, Bus.....	Seattle
McKinstry, Helen, LA.....	Seattle
McKintosh, Jean, LA.....	Seattle
McKnight, Donald D, LA.....	Seattle
McKnight, Theodore M, LA.....	Olympia
McKnight, William A, Jr, LA.....	Seattle
McLaughlin, John, LA.....	Seattle
McLaughlin, Catherine, LA.....	Seattle
McLaughlin, Don T, Bus.....	Seattle
McLaughlin, Richard H, Engr.....	Kirkland
McLean, Archibald M, Bus.....	Seattle
McLean, Donald J, Engr.....	Seattle
McLean, Duncan G, Engr.....	Seattle
McLean, Elsworth, For.....	Cowiche
McLean, Kenneth L, Engr.....	Enumclaw
McLean, Margery, FA.....	Seattle
McLean, Martin, Jr, Grad.....	Seattle
McLeod, Kenneth, Sci.....	Seattle
McLeod, Sarah, LA.....	Portland, Ore
McLouth, Benjamin, Bus, Los Angeles, Cal	
MacMahon, Charles E, Engr.....	Seattle
McMahon, Clem D, Bus.....	Seattle
McMahon, John C, Bus.....	Bellingham
McMahon, Richard F, LA.....	Seattle
McMann, Joseph, LA.....	Seattle
McManus, Robert Wm, Bus.....	Seattle
McMaster, Frances, Sci.....	Vancouver
MacMartin, Lucyreta, LA.....	Walla Walla
McMath, Margaret, LA.....	Cathlamet
McMeans, Elizabeth, LA.....	Seattle
McMeans, R W, Fsh.....	Seattle
McMeen, Robert E, Engr.....	Seattle
McMeen, William Otho, Engr.....	Seattle
McMillan, Clifford R, Engr, Wimbledon, ND	
McMillan, John R, LA.....	Seattle
McMillan, Mary E, LA.....	Seattle
McMillan, Kenneth F, Bus.....	Seattle
McMullen, Kenneth, LA.....	Seattle
McMullen, E Lyle, FA.....	Tacoma
McNab, Lauretta, LA.....	Portland, Ore
McNabnay, Jennie, FA.....	Seattle
McNamara, Eugene J, LA.....	Bothell
McNaughton, James W, LA, Juneau, Alaska	
McNeil, Dorothy, Pharm.....	Seattle
McNeill, Chester A, Bus.....	Seattle
McNeil, Gordon W, Edu.....	Snohomish
McNeil, Stephen, Bus.....	Quinault
McNeills, Catherine L, Bus.....	Billings, Mont
McNish, Naomi A, LA.....	Seattle
MacNicol, Jane, Pharm.....	Seattle
McOmber, Asa Shaua, LA.....	Seattle
McPhaden, Kenneth S, FA.....	Seattle
McPharren, Bernice, Bus.....	Seattle
McPherson, Don, Engr.....	Seattle
McPherson, Joe, For.....	Brewster
McPherson, Kenneth, LA.....	Brewster
McPherson, Mildred, FA.....	Seattle
McPherson, Robert, Sci.....	Spokane
McPherson, Wm C, LA.....	Portland, Ore
McPhe, Alberta, FA.....	Seattle
McQuarrie, Malcolm, Fsh.....	Vancouver, BC
McRae, Donald J, LA.....	Seattle
MacRae, Lloyd A, Engr.....	Seattle
McReavy, John M, Bus.....	Hoquiam
McReavy, Katherine, LA.....	Seattle
McRoberts, Dona, Sci.....	Seattle
McRorie, Lester H, Sci.....	Edmonds
McRory, Beverly Orville, Pharm.....	Seattle
MacTavish, Isabel G, Grad.....	Vancouver, BC
McVay, Doris, LA.....	Seattle
McWalter, Jack, LA.....	Seattle
MacWhinnie, Rojalind, Sci.....	Seattle
Maas, Johanneette, LA.....	Seattle
Maas, Milton J, Engr.....	Seattle
Macfarlane, Richard A, LA.....	Seattle
Mack, Geo C, Pharm.....	Seattle
Mack, Margaret, FA.....	Seattle
Macdonald, Louise H, Sci.....	Everett
Mackey, Jack, Engr.....	Seattle
Macklem, Beth Clair, LA.....	Seattle
Mackoff, Charles, Sci.....	Spokane
Macomber, Ray B, Bus.....	Seattle
Macrae, Donald H, LA.....	Seattle
Macrae, Marjorie I, Grad, Great Falls, Mt	
Madsen, Herbert S, Fsh.....	Seattle
Madsen, Thoralf, Engr.....	Seattle
Mage, C Minor, FA.....	Seattle
Magee, Dorothy Jean, LA.....	Seattle
Maginnis, Helene M, LA.....	Seattle
Magner, Dorothy, FA.....	Richmond Beach
Magnusson, Bryce, LA.....	Point Roberts
Magnusson, Harold, Bus.....	Seattle
Magnuson, C W, Pharm.....	Seattle
Magnuson, Warren, Law.....	Seattle
Magoon, Mary, Sci.....	Seattle
Maguire, Hazel A, Sci.....	Vancouver, BC
Maguire, Vivian, FA.....	Seattle
Mahaffay, Donald R, LA.....	Tacoma
Mahaffay, Robert E Jr, LA.....	Seattle
Mahnen, Arline E, FA.....	Seattle
Mahoney, Fred, Pharm.....	Seattle
Mahoney, P W, Law.....	Seattle
Main, Carroll, LA.....	Seattle
Main, Elliott, Engr.....	Port Angeles
Main, Frank W, LA.....	Seattle
Major, Sidney W, LA.....	Seattle
Makino, Megumu, Bus.....	Japan
Malan, Myrtle C, Bus.....	Seattle
Malen, Nora, Edu.....	Seattle
Mallaco, Delain, LA.....	Philippines
Mallet, Catherine, FA.....	Seattle
Mallett, John, Engr.....	Seattle
Mulloy, Benjamin J, Grad.....	Seattle
Mulloy, Kathleen J, Grad.....	Seattle
Mulloy, John W, Bus.....	Seattle
Mulloy, Romanie, Bus.....	Seattle
Malone, Arthur D, LA.....	Ellensburg
Mulone, Coe V, Bus.....	Everett
Malstrom, Harriet M, FA.....	Seattle
Manca, Harry E, LA.....	Seattle
Manfred, Nicholas A, Sci.....	Irvin
Mang, Ling K, LA.....	China
Manier, Beatrice, LA.....	Olympia
Manluco, Alfonso, Engr.....	Philippines
Mann, Charles C Jr, Fsh.....	Seattle
Mann, Hubert A, LA.....	Seattle
Mangrum, Richard, Law.....	Seattle
Manning, Franklin, Law.....	Seattle
Manning, Josephine, FA.....	Roy
Manolides, Evans D, LA.....	Seattle
Manousos, Angelo, LA.....	Tacoma
Mansur, Howard H, Grad.....	Seattle
Mantle, Vernon V, Sci.....	Sequim
Manuel, Francisco, LA.....	Seattle
Mar, T C, Engr.....	Seattle
March, Martha J, LA.....	Aberdeen
Marchand, Morgan C, Sci.....	Seattle
Marlano, Pio, Sci.....	Philippines
Marlon, Lucien F, Law.....	Seattle
Mark, B J, Engr.....	Seattle

Mark, Leroy W, Bus.....	Woodhall, Ill
Markham, Mary Grace, FA.....	Spokane
Markham, Wilbur A, For.....	Seattle
Marks, Graham W, Grad.....	Los Angeles, Cal
Marks, Madelaine L, LA.....	Boise, Ida
Markus, E Joyce, LA.....	Seattle
Markusson, Constance M, Edu.....	Tacoma
Marple, Catherine T, FA.....	Seattle
Maples, Melvin G, Engr.....	Seattle
Marquis, Marion A, Law.....	Seattle
Markey, Catherine, LA.....	Seattle
Marr, Frank N, Bus.....	Spokane
Marr, Lawrence E, Sci.....	Arlington
Marr, Wilbur P, LA.....	Arlington
Marriott, Thomas A, Bus.....	Seattle
Marrow, Mary C, LA.....	Seattle
Mars, Samuel Clabourne, Engr.....	Snohomish
Marsh, Doris, LA.....	Arlington
Marsh, June, Sci.....	Seattle
Marsh, Leon Deane, FA.....	Seattle
Marsh, Paul F, LA.....	Seattle
Marsh, Ruth I, Sci.....	Seattle
Marsh, Shirley R, Law.....	Kelso
Marsh, Wm D, LA.....	Seattle
Marshall, Benjamin M, Sci.....	Eureka, Cal
Marshall, Burt W, Bus.....	Seattle
Marshall, Vera F, LA.....	Vancouver, BC
Marsolais, Marguerite, LA.....	Seattle
Marston, Margaret, LA.....	Seattle
Martell, Walter R, LA.....	South Bend
Martin, Arthur V, Bus.....	Los Angeles, Cal
Martin, Bertha, Bus.....	Seattle
Martin, Carl, Sci.....	Seattle
Martin, Carolyn S, FA.....	Seattle
Martin, Mary Frances, Edu.....	Seattle
Martin, Fred D, Bus.....	Woodland
Martin, Genevieve, LA.....	Seattle
Martin, George M, Engr.....	Mabton
Martin, George W, LA.....	Seattle
Martin, Harold A, LA.....	Seattle
Martin, Humbert, Bus.....	Centralia
Martin, L B, Bus.....	Seattle
Martin, Louis K, LA.....	Seattle
Martin, Lucille, LA.....	Seattle
Martin, R R, LA.....	Seattle
Martin, Stella, Bus.....	Seattle
Martin, Thomas A, LA.....	Seattle
Martina, John D, Bus.....	Seattle
Martincovic, John L, Fah.....	Seattle
Martincevic, Patricia, LA.....	Seattle
Martinson, Edwin, Engr.....	Harrah
Marwood, Hazel, Sci.....	Seattle
Marx, Walter J, LA.....	Teller, Alaska
Maschke, Leona, Bus.....	Republic
Maslan, Aaron L, Law.....	Seattle
Mason, Frederick P, LA.....	Castle Rock
Mason, Gerald H, LA.....	Los Gatos, Cal
Mason, Robert H, Bus.....	Seattle
Mason, Ruby Hall, LA.....	Seattle
Massar, Pauline, LA.....	Seattle
Masters, Myron, Engr.....	Butte, Mont
Masuda, Thomas, Law.....	Ellensburg
Mather, Mildred Janet, Sci.....	Auburn
Matheson, Catherine, LA.....	Bellingham
Matheson, Margaret L, LA.....	Seattle
Mathews, Alec, LA.....	Seattle
Mathews, Dorothy, FA.....	Seattle
Mathews, Ormand D, FA.....	Seattle
Mathews, Orville S, For.....	Seattle
Mathewson, Edw W, LA.....	Seattle
Mathewson, Mark, Law.....	Shelton
Mathewson, Mark M, Bus.....	Seattle
Mathewson, Nancy, LA.....	Seattle
Mathey, Norris A, For.....	Monroe
Mathes, Herbert, Bus.....	Seattle
Mathis, Clinton, Law.....	Seattle
Mathis, Earl, LA.....	Los Angeles, Cal
Matlock, Jack C, Bus.....	Butte, Mont
Matsen, Roy, Sci.....	Bickleton
Matson, Gayda, Sci.....	Seattle
Matson, James H, Engr.....	Denver, Colo
Matson, Julius A, Bus.....	Seattle
Matsul, Hirobumi, Sci.....	Japan
Matsuzawa, Fumio, FA.....	Seattle
Matthews, Bruce, Bus.....	Seattle
Matthews, John G Jr, Law.....	Seattle
Matthews, Marlan, LA.....	Tacoma
Matthews, Mark A, LA.....	Seattle
Mattila, Walter, Grad.....	Woodland
Mattison, Elsie, FA.....	Seattle
Mattison, Helen, LA.....	Seattle
Mattison, Leota, FA.....	Seattle
Mattmueller, Eleanor, Sci.....	Seattle
Matz, Paul E, Pharm.....	Ferndale
Matzger, Josephine, FA.....	Seattle
Maxey, Leonard W, Sci.....	Tacoma
Muxey, Marie, FA.....	Aberdeen
Maxson, Margaret, FA.....	Seattle
Maxwell, Geo B, Engr.....	Olympia
May, Frank H, Engr.....	Seattle
May, Herbert R, Bus.....	Seattle
May, Mildred, FA.....	Seattle
Maybanks, Mabel, Sci.....	Seattle
Mayer, Alex, LA.....	Seattle
Mayer, Phillip, Engr.....	Seattle
Mayor, Jeannette G, Edu.....	Oak Harbor
Maynard, Jack E, Engr.....	Morse, Sask
Mayo, Marjorie, LA.....	Seattle
Maze, Herbert F, Bus.....	Elbe
Meacham, Larned A, Engr.....	Seattle
Mead, Betty Lee, FA.....	Seattle
Meade, John M, LA.....	Seattle
Meador, E Ellert, Bus.....	Spokane
Meadows, Clarke, LA.....	Harrison, Ida
Meagher, Geraldine F, LA.....	Los Angeles, Cal
Meagher, Jane, LA.....	Seattle
Meaker, Marlan B, Grad.....	Seattle
Meany, Edmond S, Jr, LA.....	Seattle
Mears, Chester, Engr.....	Lead Hill, Ark
Medler, Dan M, LA.....	Seattle
Meckstroth, Adalina, Sci.....	Seattle
Medford, Plott, LA.....	Everett
Meeks, Ruby, FA.....	Clarkston
Megrew, M Violet, FA.....	Seattle
Mehlhorn, Eleanor, LA.....	Seattle
Mehner, Gertrude, Sci.....	Bremerton
Meler, Ronald W, LA.....	Seattle
Melmsest, Helen, FA.....	Seattle
Meister, Roy E, Bus.....	Seattle
Melby, Earl L, LA.....	Seattle
Melby, Willard L, For.....	Everett
Mellinger, James J, Bus.....	Tacoma
Melder, Eugene F, Grad.....	Seattle
Meldrum, Doris, LA.....	Seattle
Mellinger, Martha J, Sci.....	Tacoma
Melson, Leif S, Phar.....	Seattle
Melness, Marlen C, For.....	Enumclaw
Melville, Mildred, LA.....	Portland, Ore
Mendell, Margaret, Sci.....	Seattle
Mentzer, William W, For.....	Tacoma
Merchant, Charles A, LA.....	Seattle
Merigold, Florence E, Edu.....	Kallispell, Mont
Merkle, George, Engr.....	San Bernardino, Cal
Merriam, Wm McP, LA.....	Fort Worden
Merrick, Ralph, LA.....	Seattle
Merrill, Ethel M, LA.....	Seattle
Merrill, John Edmund, Law.....	Seattle
Merrill, Lannon, LA.....	Spokane
Merrin, Florence, LA.....	Seattle
Merritt, Ruth, LA.....	Seattle
Merritt, Wm H, Bus.....	Seattle
Merryman, John W, Engr.....	Seattle
Meservey, Marian, LA.....	Portland, Ore
Mesher, Irwin, Bus.....	Seattle
Mesher, Mose, Jour.....	Seattle
Messer, Lucille, LA.....	Seattle
Metcalf, Irwin L, LA.....	Sonp Luke
Metcalfe, Gordon E, Law.....	Seattle
Metke, Herbert, LA.....	Seattle
Mettler, Gordon, LA.....	Seattle
Metzenbaum, Sylvia, LA.....	Seattle
Metzinger, Edgar F, Sci.....	Seattle
Meyer, August W, Phar.....	Tacoma
Meyer, Gladys O, LA.....	Seattle

Meyer, Harold, Sci.....	Seattle	Mills, Gertrude R, Grad.....	Seattle
Meyer, Irene Viola, LA.....	Seattle	Mills, Moore J, Sci.....	Seattle
Meyer, Lincoln Albert, LA.....	Seattle	Mills, Orville H, Law.....	Seattle
Meyer, Sadie, LA.....	Seattle	Mills, Winifred M, Sci.....	Helena, Mont
Meyers, Evelyn M, LA.....	Seattle	Milotte, Alfred G, FA.....	Seattle
Meyers, Fred W, Bus.....	Seattle	Milne, Orville W, FA.....	Everett
Meyers, Harry T, FA.....	Spokane	Milroy, Mary S, Sci.....	Everett
Miao, Ching Tien, LA.....	Washington, DC	Milton, Fletcher R, Grad.....	Seattle
Michie, Frances E, Grad.....	Seattle	Milward, Doris, LA.....	Aloha
Mickelwait, Lowell, Bus.....	Seattle	Milward, Frances, LA.....	Aloha
Michael, Elizabeth, LA.....	Seattle	Minaker, Cecil W, Bus.....	Seattle
Mickey, A Jim, LA.....	Seattle	Minch, Seth Elmer, LA.....	Seattle
Middaugh, Ellen, LA.....	Seattle	Miner, Harvey, Engr.....	Spokane
Middaugh, Glen C, Engr.....	Seattle	Miner, May, LA.....	Spokane
Middleton, Cowper J, LA.....	Seattle	Miner, Ruth, LA.....	Seattle
Middleton, Ethel, LA.....	Seattle	Mines, Dorothy, LA.....	Seattle
Middleton, Lorna F, Bus.....	Mt Vernon	Mines, Gwendolen L, FA.....	Seattle
Mielke, Clara, Edu.....	Seattle	Mines, Marjorie, LA.....	Seattle
Mieth, Beatrice T, LA.....	Cupertino, Cal	Mines, Ray, FA.....	Seattle
Mieth, Edward T, Bus.....	Cupertino, Cal	Minkler, Don R, Bus.....	Aberdeen
Miffin, Emmett R, Law.....	Seattle	Minkler, Robert, Bus.....	Lyman
Miffin, John, Engr.....	Shelton	Minuth, Bertie E, LA.....	Yacolt
Mignerey, Madeline, FA.....	Seattle	Minzel, Wesley C, Sci.....	Sharon
Miles, Edward M, Engr.....	Seattle	Mitchell, Arthur L, FA.....	Spokane
Miles, Frederick Elwood, LA.....	Seattle	Mitchell, Charlotte L, Sci.....	Waterville
Miles, William C, LA.....	Seattle	Mitchell, Donald, Bus.....	Stanwood
Millar, Charlotte S, LA.....	Seattle	Mitchell, Doris, Sci.....	Everett
Millar, Melville, Phr.....	Seattle	Mitchell, Doris Irene, FA.....	Seattle
Millay, Margaret, Sci.....	Chewelah	Mitchell, Eunice A, LA.....	Sparta, Ore
Miller, Alden E, Law.....	Seattle	Mitchell, J Francis, LA.....	Seattle
Miller, Alice F, Sci.....	Tacoma	Mitchell, George F, Bus.....	Spokane
Miller, Barry J, LA.....	Bellingham	Mitchell, Jack L, LA.....	Seattle
Miller, Bethene, FA.....	Seattle	Mitchell, John G, LA.....	Eureka, Cal
Miller, Boyd E, LA.....	Seattle	Mitchell, Katherine E, LA.....	Seattle
Miller, Carrie L, Edu.....	Seattle	Mitchell, Mary G, LA.....	Seattle
Miller, Dorinee, Bus.....	Cleveland, Mont	Mitchell, Mary S, LA.....	Wheeler
Miller, Dorothy, Bus.....	Seattle	Mitchell, Mildred J, LA.....	Spokane
Miller, O Earle, LA.....	Seattle	Mitchell, Raymond L, Grad.....	Winters, Tex
Miller, Edward F Jr, LA.....	Duncan, BC	Miyamoto, Nobu, FA.....	Seattle
Miller, Elida S, FA.....	Union, Ore	Miyamoto, May, Bus.....	Seattle
Miller, Elma, LA.....	Seattle	Moawad, Geo M, Bus.....	Kalama
Miller, Eloise, LA.....	Seattle	Moberg, Alfred F, FA.....	Seattle
Miller, Everett L, LA.....	Tacoma	Moe, Barney, FA.....	Seattle
Miller, Fay, LA.....	Seattle	Moe, Clifford, LA.....	Havre, Mont
Miller, Francis, Fsh.....	Seattle	Moe, Iver, Bus.....	Anacortes
Miller, Franklin, Bus.....	Seattle	Moe, Myrtle J, LA.....	Seattle
Miller, Gail L, FA.....	Bow	Moebling, Dorothy, FA.....	Seattle
Miller, Geo R, LA.....	Helena, Mont	Moellendorf, Orville, For.....	Seattle
Miller, Harriet P, Sci.....	Seattle	Moffitt, D D, Sci.....	Elberton
Miller, Harry E, LA.....	Naches	Moffat, James A, Engr.....	Snoqualmie
Miller, Helen E, LA.....	Seattle	Mohn, Einar O, Phr.....	Ferndale
Miller, Helen G, FA.....	Seattle	Mohrman, John, Phr.....	Seattle
Miller, Henry A, Bus.....	Goldendale	Moldstad, Nelson J, LA.....	Mt Vernon
Miller, Herbert J, Fsh.....	Seattle	Mollitor, Antoinette, LA.....	Seattle
Miller, Hortense, Sci.....	Seattle	Moller, Daniel H, For.....	Seattle
Miller, Hugh G, Sci.....	Seattle	Moller, Helen Badgley, FA.....	Seattle
Miller, Iris L, LA.....	Seattle	Moller, Roland S, LA.....	West Port, Conn
Miller, Kathleen, FA.....	Seattle	Mollstad, Howard M, LA.....	Seattle
Miller, Keith A, Engr.....	Everett	Moltham, James J, LA.....	Seattle
Miller, Leslie, LA.....	Seattle	Monette, Mrs Russell, LA.....	Seattle
Miller, Lillian, LA.....	Cleveland, Mont	Monks, Eileen, Sci.....	Seattle
Miller, Louise, Sci.....	Spokane	Monnet, Randall F, Bus.....	San Jose, Cal
Miller, Mary Janet, LA.....	Kallispell, Mont	Monroe, John R, Edu.....	Ferndale
Miller, Maurice M, Engr.....	Seattle	Monroe, Leota, LA.....	Seattle
Miller, Norma, FA.....	Seattle	Monroe, Paul A, Phr.....	Seattle
Miller, Paul H, Bus.....	Yakima	Montag, Adeline, Bus.....	Seattle
Miller, Paul W, Bus.....	Puyallup	Montague, Thomas, LA.....	Bellingham
Miller, Paul F, Engr.....	Seattle	Montero, Juan G, Engr.....	Philippines
Miller, Samuel S, Bus.....	Seattle	Montfort, Elizabeth A, LA.....	Blaine
Miller, Thomas K, LA.....	Seattle	Montfort, Mary L, Sci.....	Blaine
Miller, Verla B, Sci.....	Seattle	Montgomery, Clarice, FA.....	Seattle
Miller, Vivian, Grad.....	Vancouver	Montgomery, Julia B, LA.....	Caldwell, Ida
Miller, Walter G, LA.....	Bellingham	Montgomery, Leslie, LA.....	Seattle
Miller, Ward, LA.....	Seattle	Montgomery, Samuel, LA.....	Tacoma
Miller, Winifred F, Edu.....	Nampa, Ida	Montgomery, Tom, Jour.....	Puyallup
Milliman, Leonard, LA.....	Seattle	Monzingo, Forrest L, Sci.....	Gig Harbor
Millory, Margaret, Sci.....	Chewelah	Moon, Ruth, LA.....	Los Angeles, Cal
Mills, Catherine, Sci.....	Seattle	Mooney, Karl, LA.....	San Francisco, Cal
Mills, Eileen, LA.....	Seattle	Moore, Bryant W, LA.....	Seattle
Mills, Elizabeth T, LA.....	Seattle	Moore, Burta L, Sci.....	Kirkland
Mills, Francis C, LA.....	Kennewick	Moore, Donald J, Engr.....	Washougal

Moore, Edith L, FA.....	Roy
Moore, Eloise, LA.....	Seattle
Moore, Helen M, LA.....	Seattle
Moore, J C, Jr, FA.....	Seattle
Moore, Kathryn, WA.....	Sedro-Woolley
Moore, Louise V, Grad.....	Seattle
Moore, Margaret L, Sci.....	Seattle
Moore, Neva M, Phar.....	Seattle
Moore, Robert W, Bus.....	Seattle
Moore, Paul C, LA.....	Upland, Cal
Moore, Phillip H, Sci.....	Carnation
Moore, Phyllis, LA.....	Spokane
Moore, Robert B, Bus.....	Fairfax
Moore, Robert J, FA.....	Seattle
Moore, Robert L, LA.....	Olympia
Moran, Christine L, Law.....	Seattle
Moran, Leo J, LA.....	Seattle
Moran, Merton, LA.....	Seattle
Moran, Naomi B, LA.....	Seattle
Moran, Thomas, Bus.....	Seattle
Morbeck, Donald C, Bus.Cœur d'Alene, Ida	
Morck, Ethel P, FA.....	Seattle
Morehead, Ruby B, LA.....	Boise, Ida
Morehodoff, John A, Engr.....	Russia
Morehodoff, Vlad A, Fsh.....	Russia
Moreland, Ruth Ann, LA.....	Seattle
Morey, Elyn Gertrude, FA.....	Seattle
Morgan, Adrian H, Engr.....	Bellingham
Morgan, Anne, LA.....	Seattle
Morgan, Beth, LA.....	Hoquiam
Morgan, Cecil A, LA.....	Cheney
Morgan, Ellisha Jr, LA.....	Portage
Morgan, Elliott, LA.....	Seattle
Morgan, Frank D, Engr.....	Hoquiam
Morgan, Helen E, LA.....	Hoquiam
Morgan, Leah H, Sci.....	Seattle
Morgan, Miriam, FA.....	Seattle
Morgenstern, Elizabeth, LA.....	Seattle
Morin, George, Engr.....	Anacortes
Morney, Elmer, Bus.....	Marysville
Moroto, James, Engr.....	Seattle
Morrill, George E, For.....	Entiat
Morrill, Helen, Grad.....	Entiat
Morrill, Mabel, LA.....	Kent
Morris, Clydene L, Sci.....	Seattle
Morris, Donald V, Bus.....	Puyallup
Morris, H Elizabeth, LA.....	Port Ludlow
Morris, Frances, FA.....	Lewiston, Ida
Morris, Garnet G, Jr, Engr.....	Seattle
Morris, Gregory S, Bus.....	Seattle
Morris, R A, Sci.....	Seattle
Morris, William G, For.....	Seattle
Morrison, Arnold, Engr.....	Bothell
Morrison, Clayton, Law.....	Seattle
Morrison, Donald McG, Engr.....	Seattle
Morrison, Dorothy M, LA.....	Seattle
Morrison, D Grant, LA.....	Seattle
Morrison, Harwood Y, LA.....	Seattle
Morrison, John Eugene, LA.....	Spokane
Morrison, Marjorie E, Sci.....	Tacoma
Morrow, Hugh, LA.....	Seattle
Morrow, Mary, LA.....	Wallace, Ida
Morrow, Thomas L, LA.....	Tacoma
Morry, Lucile K, LA.....	Seattle
Morse, Evelyn, LA.....	Seattle
Morse, Kenneth, LA.....	Seattle
Morse, Roy W, Engr.....	Seattle
Mort, Edith J, LA.....	Gig Harbor
Mort, Hazel B, Edu.....	Gig Harbor
Morton, Chas, Sci.....	Seattle
Morton, Paul L, Engr.....	Seattle
Morton, Robert, Bus.....	Seattle
Moseley, Crowder, Engr.....	Seattle
Moser, Stephen B, LA.....	Seattle
Mosler, George R, LA.....	Seattle
Mosolf, James F, LA.....	Tacoma
Mosolf, John A, Engr.....	Puyallup
Moss, Alice, LA.....	Wenatchee
Motosaka, Ichiro, Bus.....	Seattle
Mottelson, Mayer M, Jour.....	Seattle
Mottishaw, Grace E, Sci.....	Vancouver, BC
Mottman, John W, Sci.....	Olympia
Moulton, Edith A, Sci.....	Kirkland
Moulton, Hurlburt T, Bus.....	Seattle
Mouso, Harold M, LA.....	Seattle
Mowry, Paul R, LA.....	Seattle
Moyes, Lynn, LA.....	Seattle
Muzzone, Carl, Bus.....	Seattle
Mozone, Leonida, Phar.....	Seattle
Mvrachek, Elmira, Sci.....	Chehalis
Muck, Nola, LA.....	Seattle
Muckenhirn, Vera A, Sci.....	Wenatchee
Mudgett, Ellen, LA.....	Seattle
Mudgett, Roberta, Sci.....	Seattle
Mueller, Bert W, Engr.....	Seattle
Mueller, Mary, LA.....	Seattle
Muffley, Richard B, LA.....	Hollywood, Cal
Muffley, Robert A, LA.....	Woodinville
Muir, Robert A, LA.....	Wilbur
Muirhead, Alpha, FA.....	Wenatchee
Muirhead, Virginia, Bus.....	Wenatchee
Mulchay, Ruth K, Bus.....	Portland, Ore
Murchison, Donald, Bus.....	Seattle
Mulholland, Ed, Jr, Law.....	Seattle
Mullen, Frances, LA.....	Seattle
Mullan, Elizabeth Marsh, Edu.....	Seattle
Mullen, Leo J, Phar.....	Okanogan
Mulligan, Bernard L, LA.....	Seattle
Mullin, Dorothy, Sci.....	Seattle
Mulnix, Eileen L, FA.....	Seattle
Mulvey, John J, LA.....	Seattle
Mumford, Clarence B, Sci.....	Seattle
Mund, Vernon A, Bus.....	Pe Ell
Munro, J Eddy, LA.....	Seattle
Munroe, Walter R, Bus.....	Seattle
Munson, Alfred, Engr.....	Seattle
Munson, R C, Engr.....	Seattle
Munter, Milton P, FA.....	Seattle
Munznerider, John, Engr.....	Helena, Mont
Murata, Kay K, FA.....	Seattle
Murdock, Mary, Bus.....	Seattle
Murison, Walter Scott, LA.....	Seattle
Murphy, Bruce R, LA.....	Seattle
Murphy, Claude, LA.....	Roslyn
Murphy, Edna M, LA.....	Seattle
Murphy, Katherine, Sci.....	Portland, Ore
Murphy, Lois, LA.....	Republic
Murray, Alice, LA.....	Seattle
Murray, Beth A, FA.....	Seattle
Murray, Dennis, Law.....	Seattle
Murray, Edward R, Fsh.....	Seattle
Murray, Isabelle, FA.....	Seattle
Murray, Jesse Wm, Bus.....	Omak
Murray, Julia A, LA.....	Glasgow, Mont
Murray, Margaret C, LA.....	Wenatchee
Murray, Margaret, LA.....	Seattle
Murray, Nellie, Bus.....	Seattle
Murray, Ora, Sci.....	Marysville
Murray, Virginia M, FA.....	Spokane
Murray, Virginia Irene, Sci.....	Seattle
Murrill, John J, LA.....	Seattle
Muttart, Allen C, Phar.....	Auburn
Myers, Dorothy, Bus.....	Seattle
Myers, David R, FA.....	Seattle
Myers, A Francis, Engr.....	Blaine
Myers, Helen J, Sci.....	Seattle
Myrole, W J, LA.....	Seattle
Myers, Kenneth G, Bus.....	Seattle
Myers, Mary H, LA.....	Seattle
Myhre, Clara M, FA.....	Seattle
Naf, Edwin O, Engr.....	Kirkland
Nagel, Sylvia D, LA.....	Tacoma
Nagley, Hazel, FA.....	Seattle
Nahas, Emmeleine E, LA.....	Seattle
Nakabayashi, Annie K, LA.....	Victoria, BC
Nakagawa, Yoriaki, LA.....	Seattle
Nakaseko, Kazu, FA.....	Japan
Nakashima, George, FA.....	Seattle
Nakata, Masaji, LA.....	Bothell
Nakaya, F S, Phar.....	Seattle

Nance, Jack Clark, LA.....	Spokane
Nash, L Elmer, Sci.....	Helena, MT
Naslund, Cecil E, Engr.....	Everett
Nassonoff, Alexander, Engr.....	Seattle
Nathan, Kenneth R, Engr.....	Seattle
Nau, John C, Bus.....	Seattle
Nau, Thomas P, Bus.....	Seattle
Naud, John D, Sci.....	Seattle
Neville, Jack B, LA.....	Wauville
Navarro, Enrique P, LA.....	Philippines
Navea, Vicente, LA.....	Philippines
Nay, Edward O, Bus.....	Pasadena
Naylor, Alfred McCune, LA.....	Seattle
Neal, Edgar B, LA.....	Seattle
Neal, Richard K, LA.....	Seattle
Nedelsky, Leo, Engr.....	Russia
Neelley, Florence, LA.....	Seattle
Neely, C Bertis, Grad.....	Spokane
Neely, Helen E, LA.....	Weiser, Ida
Neese, Vera, LA.....	Seattle
Neff, Jack Irving, LA.....	Seattle
Neikirk, Howard, Bus.....	Palo Alto, Cal
Neikirk, Leighton, Bus.....	Seattle
Neil, Gwendolyn, LA.....	Seattle
Neil, Richard, Sci.....	Anaconda, Mont
Neill, L Le Roy, Bus.....	Seattle
Neill, William J, LA.....	Seattle
Nellson, John L, Bus.....	Raymond
Netmann, Amelia, Edu.....	Chehalis
Nelch, Betty, LA.....	Seattle
Nelson, Arthur, Phar.....	Arlington
Nelson, Charlotte, Bus.....	Seattle
Nelson, Clarence L, Bus.....	Olympia
Nelson, Effie, Bus.....	Kent
Nelson, Ellert G, Bus.....	Seattle
Nelson, Ellena, LA.....	Mt Vernon
Nelson, Ernest N, Engr.....	Kapowsin
Nelson, Eugene R, Bus.....	Long Beach, Cal
Nelson, Evelyn M, Bus.....	Seattle
Nelson, George, Engr.....	Seattle
Nelson, Gerald P, Engr.....	Enumclaw
Nelson, Helen Clare, LA.....	Seattle
Nelson, Helen Janice, LA.....	Napavine
Nelson, Helen Marie, FA.....	Spokane
Nelson, Helen M, LA.....	Seattle
Nelson, Henry O'Dell, Engr.....	Aberdeen
Nelson, Herbert, Grad.....	Mt Vernon
Nelson, James Cecil, Sci.....	Blickleton
Nelson, John M, Engr.....	Seattle
Nelson, Luella G, LA.....	Spokane
Nelson, Mildred, FA.....	Seattle
Nelson, Olga A, Sci.....	Wenatchee
Nelson, Paul Midlie, LA.....	Seattle
Nelson, Raleigh, Bus.....	Walla Walla
Nelson, Ralph B, Engr.....	Seattle
Nelson, Robert B, LA.....	Seattle
Nelson, Ruth P, Grad.....	Vancouver
Nelson, Sidney B, Sci.....	Seattle
Nelson, Torvol H, Sci.....	Bellingham
Nelson, Wilma W, LA.....	Seattle
Nemiro, Herman, Bus.....	Seattle
Neraal, Pauline, Phar.....	Cut Bank, Mont
Ness, Arthur T, Sci.....	Tacoma
Ness, Claudine, Bus.....	Harrington
Ness, Conrad C, LA.....	Shelton
Nettleton, Ruth, FA.....	Seattle
Neuenschwander, Clyde W, LA.....	Pandora, O
Neumann, Cameron, Bus.....	Seattle
Neuppert, Margaret, LA.....	Seattle
Neville, Betty, Grad.....	Seattle
Nevins, Willard, Fsh.....	Granite Falls
Newberry, Amelia E, Grad.....	Kirkland
Newberry, Max P, Sci.....	Coupeville
Newberry, James V, Bus.....	Seattle
Newcomb, Forrest D, Engr.....	Bellingham
Newell, Paul R, Engr.....	Boise, Ida
Newell, Ralph A, Sci.....	Seattle
Newell, Richard, Engr.....	Everett
Newkirk, B H, LA.....	Seattle
Newland, Ernest, Sci.....	Puyallup
Newmack, Edward L, Bus.....	Spokane
Newman, Ruth L, Sci.....	Spokane
Newman, Willbur Ray, Grad.....	Seattle
Newman, Winifred, FA.....	Seattle
Newport, Marshall, Engr.....	Randle
Newsam, Daisy, Bus.....	Seattle
Newsstrom, Carl L, Engr.....	Seattle
Newsun, John H, Engr.....	Seattle
Nicholls, Dudley, Engr.....	Seattle
Nichols, Claudia, LA.....	Vashon Heights
Nichols, Frank, Engr.....	Ellensburg
Nichols, Helena L, FA.....	Bellingham
Nichols, James Byron, FA.....	Seattle
Nichols, Jane, LA.....	Seattle
Nichols, John D, LA.....	Wapato
Nichols, Julia H, LA.....	Yakima
Nichols, Raymond H, Fsh.....	Tacoma
Nichols, Rubie J, LA.....	Seattle
Nicholson, Catherine, FA.....	Spokane
Nicholson, Ferris F, Bus.....	Tacoma
Nicholson, M Irene, Bus.....	Tacoma
Nicholson, Laurence B, Sci.....	Anacortes
Nicholson, Louise, LA.....	Vancouver
Nicholson, Walter K, LA.....	Vancouver
Nicholson, Walter A, Engr.....	Seattle
Nickell, George, LA.....	Spokane
Nickell, Gretchen, FA.....	Seattle
Nickum, William B, LA.....	Seattle
Nickerson, Isabelle, Bus.....	Seattle
Nicks, Alma M, Sci.....	Everett
Nicol, Antonia C, Bus.....	Port Blakely
Nielsen, Jeanette, LA.....	Valley City, ND
Nielsen, Alma L, FA.....	Seattle
Nieme, Elmer J, Engr.....	Tacoma
Niemann, Fred, Bus.....	Seattle
Niemeyer, Earl, FA.....	Seattle
Niles, Kenneth Langdon, FA.....	Seattle
Ninomiya, Shige, LA.....	Japan
Nishida, Seiji, Engr.....	Seattle
Nissley, Maria Anne, LA.....	Centralia
Nix, Martha J, Grad.....	Dresden, Tenn
Nixon, Alene, LA.....	Seattle
Nixon, Clayton F, LA.....	Seattle
Nizam, A R, Fsh.....	India
Noble, Mildred A, Grad.....	Seattle
Noble, Theron, Bus.....	Everett
Noftalnger, Nymah, LA.....	Mt Vernon
Nohr, Marjorie, LA.....	Spokane
Nohl, Robert George, Bus.....	Seattle
Noji, Oliver K, FA.....	Renton
Nojiri, H K, Engr.....	Seattle
Nolan, Clarence C, Engr.....	Seattle
Nolin, William W, Grad.....	Seattle
Norberg, Ruth, LA.....	Lewiston, Ida
Nordling, Margaret, Sci.....	Shelton
Nordquist, Elsie E, LA.....	Seattle
Norie, James L, Jr, Grad.....	Seattle
Norie, Martha, LA.....	Seattle
Norie, Mary E, Grad.....	Seattle
Norlin, Agnes, LA.....	Boulder, Colo
Norman, Melba, Phar.....	Seattle
Norris, Charles H, Engr.....	Portland, Ore
Norris, Charlotte, LA.....	Bellevue
Norris, Floyd H, Engr.....	Kelso
Norris, M Maxine, FA.....	Goldendale
Norris, Ruth, LA.....	Seattle
North, Jeanette, Sci.....	Seattle
North, Junius, Engr.....	Spokane
Northey, Josephine E, Sci.....	Seattle
Northstrom, Theo, Law.....	Tacoma
Norton, Edward, LA.....	Healdsburg, Cal
Norton, Kathryn, FA.....	Seattle
Norwood, William, LA.....	Seattle
Nuckols, Hugh H, Sci.....	Seattle
Nudd, Barbara, Sci.....	Seattle
Nudelman, James, FA.....	Aberdeen
Nugent, Ormond C, LA.....	Seattle
Nunan, Ruth Carol, LA.....	Ketchikan, Alaska
Nusbaum, Verne, LA.....	Spokane
Nye, Margaret A, LA.....	Glendive, Mont
Nygran, Evelyn, LA.....	Glendive, Mont
Nygren, Alf John, Sci.....	Everett

Nylen, Donald, LA.....	Ellensburg	Olson, Martin, Bus.....	La Center
Nyman, Rose, FA.....	Seattle	Olson, Roy L, For.....	Monroe
Nystrom, Ethel Olive, Sci.....	Longview	Olson, Thelma M, LA.....	Mt Vernon
Oatey, Miriam, Edu.....	Wenatchee	Olchowsky, Henry J, FA.....	Olympia
Oberg, Arthur A, For.....	Everett	Oiwell, Henry L, LA.....	Everett
Oberg, Clarence, Bus.....	Everett	Oiwell, Lawrence, LA.....	Everett
Obien, Mauro G, Engr.....	Onalaska	O'Mahony, Mary, LA.....	Seattle
O'Brien, Daisy Joan, LA.....	Seattle	O'Mears, Erma, LA.....	Seattle
O'Brien, Elizabeth P, FA.....	Spokane	O'Neill, Gordon B, Sci.....	Seattle
O'Brien, Frank, Phar.....	Seattle	O'Neill, Herald, Law.....	Seattle
Ocampo, Pedro V, Bus.....	Philippines	Oostenbrug, Mary Alice, LA.....	Puyallup
Ochs, Clyde, Bus.....	Seattle	Oppenheimer, Maurice D, Sci.....	Spokane
O'Connell, James T, LA.....	Winlock	Opland, James M, Bus.....	Gibson, Mont
O'Connor, Helen, Sci.....	Tacoma	Opstad, Edwin R, LA.....	Blaine
O'Connell, Edwin J, Bus.....	Seattle	Opsvig, Virginia B, LA.....	Seattle
Odani, Juichi, Bus.....	Japan	Opsvig, Louis P, Engr.....	Seattle
Odegard, James, Bus.....	Seattle	O'Reilly, Hugh P, Engr.....	Seattle
Odegard, John K, LA.....	Seattle	Orchard, Robert J, Bus.....	Alamosa, Colo
Odell, Irene, LA.....	Seattle	Orito, Kenzaburo, LA.....	Japan
Odell, Ray, Bus.....	Seattle	Orkney, Douglas, Bus.....	Hoquiam
Odell, Richard E, Engr.....	Seattle	Orkney, James W, Bus.....	Hoquiam
Odell, Ruth M, Edu.....	Spokane	Oros, Charles N, Engr.....	Colby
O'Donnell, Hugh B, For.....	Seattle	Oril, Sadami, LA.....	Japan
Oeck, Emil A, Bus.....	Spokane	Orr, T Mack, Bus.....	Spokane
Ogawa, Elmer, Bus.....	Seattle	Orr, Paul H, Law.....	Tacoma
Ogden, Virginia, LA.....	Mercer Island	Orr, Robert S, Engr.....	Spokane
Ogura, Fred K, FA.....	Hamilton, Mont	Orr, Zette D, FA.....	Seattle
Ohlhoof, May Sci.....	Everett	Orton, Allen, LA.....	Seattle
O'Hara, William James, Edu.....	Kirkland	Orton, Constance, LA.....	Seattle
Ohrner, Frances, Sci.....	Seattle	Orvis, Franklin, Engr.....	Seattle
Oien, Andrew, FA.....	Yellowstone, Mont	Orvis, Harriet, Sci.....	Seattle
Oistad, George C, LA.....	Seattle	Osborn, Lewis K, Engr.....	Seattle
Okada, Hito, LA.....	Tacoma	Osborn, Melba, Sci.....	Seattle
Okada, Rihchi, Engr.....	Japan	Osborn, Don Wm, LA.....	Seattle
Okamura, Hanna, FA.....	Seattle	Osseward, John P, Bus.....	Seattle
Okazaki, Iwao R, LA.....	Seattle	Ossman, Ernest H, Engr.....	Seattle
Okazaki, Jun, LA.....	Seattle	Ostberg, Urania, Sci.....	Kirkland
O'Keane, Frances, FA.....	Portland, Ore	Osterman, Hugo W, FA.....	Walla Walla
O'Keefe, Jessie, Sci.....	Seattle	Osterman, Betty, Sci.....	Walla Walla
Okimura, Nobuo, LA.....	Seattle	Osterman, Ruth, Sci.....	Walla Walla
Okubo, Roco, Bus.....	Portage	Ostling, Harold, Sci.....	Seattle
Olberg, Leon N, Engr.....	Port Townsend	Ostlund, Isadore, Engr.....	Bryn Mawr
Oldfield, Willis C, Law.....	Everett	Ostrander, Margaret, Bus.....	Seattle
Oldham, Constance, FA.....	Bremerton	Ostrof, Rose, LA.....	Lake Bay
Oldham, G C, Sci.....	Hibbing, Minn	Ostrom, Theodore E, Bus.....	Seattle
Olds, George, Sci.....	Wenatchee	Oswald, David C, Bus.....	Edmonton
O'Leary, Alice, Law.....	Seattle	Oswald, Elizabeth, LA.....	Everett
O'Leary, D Keith, Sci.....	Seattle	Otani, Kikuye, LA.....	Wapato
O'Leary, Elizabeth M, LA.....	Seattle	Otani, Sutomatsu, LA.....	Japan
Olin, Frances Jane, LA.....	Seattle	Ott, Anne, Sci.....	Port Angeles
Olive, Myra Bancroft, FA.....	Seattle	Ott, Charles L, Engr.....	Bellingham
Oliver, Charles E, LA.....	Bellingham	Ottenheimer, Albert M, LA.....	Tacoma
Oliver, Egbert S, Grad.....	Seattle	Outouse, Samaria, FA.....	Tacoma
Oliver, Marguerite J, LA.....	Seattle	Overbay, Charles H, For.....	Manson
Oliver, Orno, Bus.....	Alderton	Overly, Fred J, For.....	Centralia
Olmsted, J B, Law.....	Seattle	Overturf, Catherine A, FA.....	Tacoma
Olsen, Albert, Law.Horse Shoe Bend, Ida		Owen, Alfred, Bus.....	Seattle
Olsen, Ortis B, Engr.....	Goldendale	Owen, Hazel H, Sci.....	Seattle
Olsen, Thelma, LA.....	Seattle	Owen, Margarita, FA.....	Seattle
Olson, Alice Joy, FA.....	Seattle	Owens, Genevieve, Sci.....	Wenatchee
Olson, Carl F, Sci.....	Arlington	Owens, Ethel Margaret, LA.....	Kennewick
Olson, Clarence A, Bus.....	Seattle	Owens, Louis H, LA.....	Seattle
Olson, Clifford C, Bus.....	Yakima	Owens, Virginia, FA.....	Seattle
Olson, K Doris, LA.....	Spokane	Ozanne, Pierre H, LA.....	Seattle
Olson, Eleonore, LA.....	Seattle	Pabst, Avery A, LA.....	Everett
Olson, Ellen E, LA.....	Monroe	Paels, Marcelo R, Sci.....	Philippines
Olson, Ellen M, Sci.....	Anacortes	Packard, Frank B, LA.....	Seattle
Olson, Ellert, Bus.....	La Center	Packard, Lorraine, LA.....	Seattle
Olson, Ernest E, LA.....	Chehalis	Packard, Sylvia, Sci.....	Seattle
Olson, Harry L, LA.....	Yakima	Packard, Thelma, FA.....	Seattle
Olson, Herbert S, Engr.....	Seattle	Packwood, Ruth W, Grad.....	Entiat
Olson, Irene, Edu.....	Sunnyside	Padley, Willine J, LA.....	Spokane
Olson, Katherine E, LA.....	Seattle	Page, Frederick J, LA.....	Seattle
Olson, Kenneth B, Sci.....	Seattle	Pagliari, Nick, Engr.....	Seattle
Olson, Kernit, Engr.....	Tacoma	Palge, Emma V, LA.....	Seattle
Olson, Leone G, LA.....	Libby, Mont	Palge, Florence K, FA.....	Vancouver
Olson, Lloyd R, For.....	Robe	Paine, John L, Bus.....	Cashmere
Olson, Louis G, For.....	Enumclaw	Painter, Wilfred, Engr.....	Seattle
Olson, Marguerite L, LA.....	Tacoma	Palmaw, Evan M, FA.....	Russia

Palmer, Clide J, LA.....	Seattle
Palmer, Dorothy K, Grad.....	Seattle
Palmer, Ellean A, LA.....	Seattle
Palmer, Florence, LA.....	Seattle
Palmer, Frances B, LA.....	Chabalis
Palmer, Howard, LA.....	Arlington
Palmer, Herbert, Sci.....	Centralia
Palmer, Lawrence, Engr.....	Centralia
Palmer, Marjorie B, FA.....	Yakima
Palmer, Marjorie G, LA.....	Yakima
Palmer, Millicent, LA.....	Seattle
Palmer, Minnie, Sci.....	Seattle
Palmer, Patricia C, FA.....	Seattle
Palmer, Rex B, LA.....	Seattle
Palmer, Ruth A, FA.....	Bremerton
Palmoth, William G, For.....	Aberdeen
Palo, George M, Engr.....	Bothell
Paipallatoc, Ceferino V, Grad.....	Seattle
Paipallatoc, Paul P, FA.....	Philippines
Pamment, Dorothy, FA.....	Seattle
Pan, Vadim, Sci.....	Russia
Pann, Schuyler, LA.....	Huntington Bch, Cal
Pantaleone, Mrs J P, LA.....	Seattle
Pantages, August, LA.....	Aberdeen
Pappas, Georgia B, LA.....	Seattle
Paquin, Rolfe J, Bus.....	Twin Falls, Ida
Pardee, Jay C, Engr.....	Seattle
Pardee, Loe H, LA.....	Seattle
Parish, Jane C, Sci.....	Vancouver
Parish, Mildred B, Edu.....	Buhl, Ida
Park, Howard, Engr.....	Seattle
Parkenson, Doris B, FA.....	Seattle
Parker, Alfred, Edu.....	Fromberg, Mont
Parker, Anne M, LA.....	Seattle
Parker, Charles, LA.....	Seattle
Parker, Chester H, Bus.....	Seattle
Parker, Donald D, Grad.....	Paw Paw, Ill
Parker, Esther June, FA.....	Seattle
Parker, D Jean, LA.....	Seattle
Parker, Maurine, FA.....	Seattle
Parker, Portia, Sci.....	Aberdeen
Parker, Terrence M, Jr, FA.....	Seattle
Farritt, Gall, Sci.....	Seattle
Farks, Goldie May, Sci.....	Seattle
Farks, Stella E, Bus.....	Okanogan
Farmeter, Kenneth, Edu.....	Puyallup
Farr, Katherine, LA.....	Seattle
Farrington, Louise, LA.....	Seattle
Farrish, D Bruce, Engr.....	Seattle
Farrish, Kathryn M, LA.....	Manitow
Farrish, Virginia A, LA.....	Portland, Ore
Farrish, Virginia, LA.....	Tacoma
Farrott, Gordon M, Engr.....	Olympia
Parsons, Earl F, Bus.....	Fairbanks, Alaska
Parsons, Elizabeth J, Sci.....	Seattle
Partansky, Alexander M, Fsh.....	Russia
Partridge, Edith, LA.....	Richmond Highlands
Pascual, Mathias C, Bus.....	Philippines
Pascual, Narciso P, Edu.....	Philippines
Pasha, Edith C, FA.....	Bozeman
Patchett, Ben Francis, Bus.....	Ellensburg
Paterson, Jack, FA.....	Seattle
Patjens, Irene, LA.....	Bend, Ore
Patricelli, Liberino, Phar.....	Seattle
Patrick, Ransom R, FA.....	Wenatchee
Patten, Irmengarde, LA.....	Seattle
Patten, Lawton, FA.....	Seattle
Patten, Marjorie, LA.....	Seattle
Patten, Virginia, FA.....	Seattle
Patterson, Bertha P, LA.....	Seattle
Patterson, Mary B, FA.....	So Pasadena, Cal
Patton, George H, LA.....	Seattle
Paton, Harold E, Edu.....	Seattle
Patrick, James F, Engr.....	Seattle
Patrick, James M, Bus.....	Snohomish
Patton, Ruth, LA.....	Seattle
Pattullo, Marion, Bus.....	Portland
Putzer, Sidney, LA.....	Seattle
Paul, John W, LA.....	Tacoma
Paul, Lyle J, Phar.....	Tacoma
Paul, Ruth M, LA.....	Seattle
Paul, William D, Bus.....	Walla Walla
Paull, Walter W, LA.....	Seattle
Paulson, Ethel, Sci.....	Enumclaw
Paulson, Florence, Bus.....	Seattle
Paulson, Julia A, Grad.....	Rolling Prairie, Ind
Paulus, Robert H, Engr.....	Seattle
Paxton, Barbara, FA.....	Seattle
Paxton, Robert, LA.....	Seattle
Payette, Sedic, Engr.....	Seattle
Paylor, Gertrude, LA.....	Seattle
Payne, J Edgar, Sci.....	Kelso
Paynton, Charles S, Jour.....	Tucuma
Paysse, Doris, LA.....	Seattle
Pazant, Marion, LA.....	Everett
Paz, Leonila, FA.....	Tucson, Ariz
Peabody, G Arden, Bus.....	Seattle
Peabody, Maud A, Sci.....	Seattle
Peabody, Wm H, Jr, For.....	Everett
Peach, Helen, Grad.....	Port Townsend
Peach, Lenore, FA.....	Spokane
Peacock, Clara, Bus.....	Seattle
Peacock, D C, Jr, Engr.....	Long Beach, Cal
Peacock, Mildred, LA.....	Long Beach, Cal
Peak, Mabel E, LA.....	Seattle
Peake, Aston Shaw, LA.....	Tacoma
Pearce, Marion, LA.....	Seattle
Pearl, Carolyn, LA.....	Seattle
Pearl, Jack C, LA.....	Prosser
Pearl, Kenneth, Bus.....	Seattle
Pearson, Ben J, Engr.....	Glg Harbor
Pearson, Brita, LA.....	Seattle
Pearson, Chas T, FA.....	Tacoma
Pearson, Emil, LA.....	Seattle
Pearson, Mabel D, LA.....	Seattle
Pearson, Mabel V, FA.....	Bothell
Pease, Howard J, LA.....	Seattle
Pearse, Wm A, LA.....	Seattle
Peck, Russell, Engr.....	Seattle
Pederson, Russell T, Law.....	Seattle
Pedlar, J Charles, Bus.....	Butte, Mont
Peck, Cliff L, LA.....	Seattle
Peel, Lettie, LA.....	Seattle
Peha, Albert J, Phar.....	Seattle
Peha, Isaac, LA.....	Seattle
Pelkey, Everett, Bus.....	Vancouver, BC
Pellegrini, Angelo M, FA.....	McCleary
Pellegrini, Frank A, Law.....	Seattle
Pellegrini, Marion M, Sci.....	Seattle
Pelto, Ethel, LA.....	Tieton
Pelz, Gladys, Grad.....	Seattle
Pemberton, Katherine E, FA.....	Seattle
Pemberton, Mary, Sci.....	Seattle
Pence, Joe T, LA.....	Salt Lake City, Utah
Pence, Orville L, LA.....	Seattle
Pendleton, Crosby, Bus.....	Everett
Pendleton, Dorothy, Sci.....	Seattle
Pendleton, Jane, LA.....	Seattle
Penick, Archie E, Sci.....	Everett
Pennington, Edna Mae, FA.....	Seattle
Pennington, Ruth E, Grad.....	Seattle
Peniston, Dorthea, Sci.....	Seattle
Peniston, Quintin P, LA.....	Seattle
Penlick, Helen, Sci.....	Graham
Penlick, Victoria, Sci.....	Graham
Pennell, Donald F, Engr.....	Seattle
Pennell, Maynard F, LA.....	Seattle
Penney, Elmina, Grad.....	Forest Grove, Ore
Penney, Lois, Sci.....	Tacoma
Pennock, Dorothy, Grad.....	Portland, Ore
Penrod, J Durant, Sci.....	Seattle
PePalpal-latoc, John, Bus.....	Philippines
Pepper, N Kathryn, LA.....	Seattle
Peratovich, Robert J, Bus.....	Klowlow, Alaska
Percy, Gretchen, LA.....	Seattle
Perdang, Henry, For.....	Easton
Perdick, John F, Phar.....	Renton
Perline, William A, For.....	Seattle
Perkins, DeForest, LA.....	Seattle
Perks, Mary Alice, LA.....	Pe Ell
Perrl, Michael E, FA.....	Seattle
Perring, Norman C, LA.....	Olympia

Perry, Floyd L, Bus.....Pasco	Pierce, Richard K, LA.....Seattle
Perry, Grace, FA.....Lakeside	Pierce, Winifred, LA.....Seattle
Perry, Marjorie, Grad.....Olympia	Pierog, Emelia H, Sci.....Seattle
Perry, Virgil, LA.....Seattle	Pierson, Charles, Bus.....Modoc Point, Ore
Person, Edward, Sci.....Seattle	Pifer, Augustus P, Min.....Seattle
Person, Henry A, LA.....Tacoma	Pihl, Charlotte, Edu.....Puyallup
Pesce, Lawrence, Engr.....Seattle	Pike, Mark, For.....Yakima
Peters, Clay W, Bus.....Seattle	Pilkington, Phyllis, LA.....Portland, Ore
Peters, Fred J, Bus.....Seattle	Pinch, Idell, Bus.....Seattle
Peters, M Kathleen, FA.....Seattle	Pinkerton, J Lloyd, Engr.....Fairbanks, Alas
Peters, Mildred, LA.....Bellingham	Pinkham, Eleanor, Sci.....Seattle
Peters, Stanley, Sci.....Seattle	Pinkham, Harry, Bus.....Tacoma
Petersen, Alma, Sci.....Langley	Pilcher, K Stephen, Sci.....Yakima
Petersen, Bernice M, Edu.....Bellingham	Pinney, Gertrude A, Sci.....Seattle
Petersen, Mildred A, LA.....Seattle	Pittman, Robert G, Fsh.....Seattle
Petersen, Ralph, Engr.....Seattle	Pittock, Virginia, LA.....Portland, Ore
Petersen, Thomas I, Jr, Bus.....Seattle	Plamondon, Eleanor L, FA.....Seattle
Petershagen, Alvin B, Bus.....Everett	Plamondon, Vivyan, FA.....Seattle
Peterson, Albert, Engr.....Twisp	Plank, Faye M, LA.....Seattle
Peterson, C Anabel, FA.....Seattle	Plank, Keith, Engr.....Seattle
Peterson, Arleen, LA.....Spokane	Plant, Franklin D, Bus.....Tacoma
Peterson, Arthur C, Engr.....Seattle	Plemmons, Komas, Sci.....Seattle
Peterson, Arthur D, Bus.....Seattle	Pless, Madeleine, FA.....Seattle
Peterson, Bertil H, FA.....Auburn	Plimpton, Sherman, LA.....Seattle
Peterson, Clarence J, Bus.....Wenatchee	Plum, Lester V, LA.....Yakima
Peterson, Carl H, For.....Yakima	Plummer, Robert H, Phar.....Vancouver
Peterson, Elizabeth, Sci.....Seattle	Plummer, Willis A, Bus.....Port Townsend
Peterson, Elsie A, LA.....Seattle	Plymire, Giles C, Fsh.....Seattle
Peterson, Elva K, Bus.....Seattle	Plymire, Reginald F, Engr.....Seattle
Peterson, C Estella, Sci.....Seattle	Pohl, Russell A, Engr.....Seattle
Peterson, Floyd Wm, Bus.....Seattle	Pohlman, Vivian J, LA.....Seattle
Peterson, Glenn Ross, Bus.....Seattle	Poindexter, Vernon, Engr.....Prineville
Peterson, Harold O, Sci.....Seattle	Poland, Edna, LA.....Graham
Peterson, Howard M, LA.....Seattle	Poland, Ave Marie, Edu.....McMillin
Peterson, J Kenneth, Bus.....Honolulu	Polet, Alvin A, Bus.....Nome, Alaska
Peterson, Mrs L J, Edu.....Seattle	Polet, Emily, FA.....Nome, Alaska
Peterson, Marie, FA.....Seattle	Polis, Anne, LA.....Hobart
Peterson, Marlon, LA.....Chewelah	Pollak, Esther, Sci.....Seattle
Peterson, Melanie, LA.....Portland, Ore	Polk, John G, Bus.....Aberdeen
Peterson, Myron J, Bus.....Seattle	Polk, Margaret E, Sci.....Seattle
Peterson, Patricia, LA.....Hoquiam	Pollock, David E, Bus.....Seattle
Peterson, Robert W, Fsh.....Seattle	Pollow, Margaret, FA.....Seattle
Peterson, Rolf H, Engr.....Seattle	Polson, Genevieve, LA.....Mt Vernon
Peterson, Roy L, LA.....Seattle	Pomeroy, Allan, Sci.....Seattle
Peterson, Sigurd H, Grad.....Corvallis, Ore	Pomeroy, Kenneth, Bus.....Fontanelle, Wyo
Peterson, Verne A, LA.....Spokane	Poole, Abigail E, Phar.....Seattle
Peterson, Wm C, Bus.....Onalaska	Poole, Bonnie, Grad.....Seattle
Petkovits, Xenia, LA.....Seattle	Pool, William Franklin, LA.....Falls City
Petley, Mary Alice, LA.....Seattle	Poolton, Earl J, Sci.....Seattle
Petric, Arnold A, Engr.....Seattle	Pope, Louise, FA.....Seattle
Pettit, Henry M, Bus.....Seattle	Porter, Charles A, Grad.....Seattle
Pettit, Lester W, LA.....Seattle	Porter, Dorothy D, LA.....Walla Walla
Petty, Wm B, Sci.....Seattle	Porter, Dorothy I, Grad.....Wenatchee
Petty, Wm Lovell, LA.....Everett	Porter, Emil J, Bus.....Port Angeles
Pfaff, L Dale, LA.....Bothell	Porter, Frances G, LA.....Everett
Pfaff, Earl A, Grad.....Bothell	Porter, Hale B, Bus.....Wahsleville
Pfisterer, Elsa, Bus.....Seattle	Porter, Helen A, Edu.....Spokane
Pfefferle, Florence, LA.....Calgary, Canada	Porter, John L, Engr.....Seattle
Phares, Ronald, LA.....Spokane	Porter, Leo R, Bus.....Seattle
Phelan, Grace, LA.....Seattle	Porter, Lucile, LA.....Seattle
Phelps, H Carnes, LA.....Tacoma	Porter, Rachel, FA.....Kellogg, Ida
Phelps, Louise W, LA.....Tacoma	Porter, Ruth A, LA.....Seattle
Phifer, Lyman D, Sci.....Seattle	Porter, R D, Engr.....Seattle
Philbrick, Deena B, LA.....Olympia	Porter, W B, Engr.....Wenatchee
Philbrick, Harold C, Law.....Seattle	Porter, Wm Laurie, LA.....Wenatchee
Phillips, Gwendolyn, FA.....Seattle	Posey, Naomi M, Edu.....Millwood
Phillippi, Ralph I, Engr.....Boise, Ida	Poska, Myrtle Cora, LA.....Seattle
Phillips, Dorothy M, Sci.....Seattle	Posson, Barbara, LA.....Spokane
Phillips, Joseph C, LA.....Seattle	Post, Hanford P, Bus.....Seattle
Phillips, Julius B, Grad.....Fairfax	Post, Hoyt G, Engr.....Los Angeles, Cal
Phillips, Norman, Engr.....Seattle	Post, Julia Betty, LA.....Los Angeles, Cal
Phillips, Rosamond, FA.....Seattle	Potgieter, Fannie, Grad.Steamboat Rk, Ia
Phillips, Ronald, FA.....Seattle	Potter, Dorothy A, FA.....Seattle
Phillips, Porter M, Engr.....Seattle	Potter, Elsie, Grad.....Seattle
Pickard, Ward L, Jaur.....Seattle	Potter, Helen A, LA.....Spokane
Pickering, Bruce W, Bus.....Seattle	Potter, Ruth A, Sci.....Seattle
Pierce, Earl R, Engr.....Seattle	Potts, Harold M, Engr.....Seattle
Pierce, Elizabeth, LA.....Medina	Potts, Helen L, LA.....Seattle
Pierce, James R, LA.....Longview	Potter, Lois C, Sci.....Bremerton
Pierce, Mary L, FA.....Seattle	Potter, Willis, Law.....Seattle
Pierce, Maurice E, Engr.....Cashmere	Potts, Margaret E, LA.....Seattle

Powell, Afton E, FA.....	Seattle
Powell, Evelyn A, Sci.....	Seattle
Powell, Ross C, Phar.....	Seattle
Powell, Ruth, Sci.....	Seattle
Powell, Ruth Bandy, LA.....	Seattle
Powell, J Theodore, LA.....	Seiah
Power, Edward A, Fsh.....	Oak Harbor
Power, George B, LA.....	Seattle
Power, Laurin W, LA.....	Oak Harbor
Power, Marie M, Grad.....	Seattle
Powers, Francis F, LA.....	Tacoma
Powers, George F, LA.....	Seattle
Powers, Welch M, Sci.....	Seattle
Prasch, Rita, FA.....	Seattle
Prather, Carlton K, FA.....	Seattle
Pratt, Dorothea, FA.....	Seattle
Pratt, Emma G, LA.....	Seattle
Pratt, Herbert B, LA.....	Seattle
Pratt, Marcus W, LA.....	Pullman
Pratt, Marlon, LA.....	Yakima
Pratt, Vernon Brown, Min.....	Ferndale
Prebble, Lillian, Bus.....	Orondo
Prebble, Rose, Bus.....	Orondo
Predmore, Alice B, LA.....	Seattle
Prendergast, Mary B, LA.....	Bellingham
Prendergast, Norman, For.....	Seattle
Presadsky, Ysevoid, FA.....	Seattle
Prescott, Robert, LA.....	Helena, Mont
Prescott, Nellie, Grad.....	Spokane
Preston, Harold C, FA.....	Seattle
Preston, Louise, Sci.....	Seattle
Preston, P Walter, LA.....	Seattle
Prestridge, Emily, LA.....	Seattle
Prestridge, Herbert M, Sci.....	Seattle
Priaulx, Marjorie, LA.....	Glendale, Cal
Price, Harry J, Engr.....	Seattle
Price, Rebecca, LA.....	Vale, Ore
Price, Russell, LA.....	Tacoma
Friebe, Robert E, Engr.....	Seattle
Friem, Virginia, Sci.....	Seattle
Prince, Louis, Auditor.....	Seattle
Pritchard, Betty W, FA.....	Seattle
Pritchard, Margaret, Sci.....	Mercer Island
Pritchard, Mary, Sci.....	Seattle
Probstfeld, Howard H, Bus.....	Seattle
Prochowska, Yadwiga, LA.....	Pocatello, Ida
Proffitt, Dean A, Bus.....	Centralia
Prottas, George, Bus.....	Seattle
Proud, Oliver, For.....	New Carlisle, Ind
Provins, Randall Blair, LA.....	Seattle
Pruzan, Jack, FA.....	Seattle
Puette, Raymond V, Grad.....	Seattle
Pugh, John E, Engr.....	Seattle
Pullen, Mary, FA.....	Skagway, Alaska
Pulver, Elliott, Bus.....	Seattle
Purcell, Glen Sherl, LA.....	Everett
Purcell, Helen, LA.....	Auburn
Purdy, Harry L, Grad.....	Vancouver, BC
Purilsima, Jose P, Bus.....	Seattle
Putnam, Edward V, Fsh.....	Seattle
Putnam, Gertrude E, LA.....	Alderwood Manor
Putnam, Mary, Sci.....	Seattle
Putnam, Otis Ira, LA.....	Seattle
Putnam, Stanley B, LA.....	Tonasket
Pye, Annetta, FA.....	Seattle
Qualheim, Clarence B, Sci.....	Seattle
Quickstad, Joel E, Bus.....	Seattle
Quiggle, Mary, LA.....	Seattle
Quigley, Chas R, Bus.....	Helena, Mont
Quigley, Charlotte, LA.....	Helena, Mont
Quigley, Dorothy M, LA.....	Seattle
Qujlen, Lawrence, Sci.....	Aberdeen
Quinliven, Lloyd J, Bus.....	Seattle
Quinn, Jack, LA.....	Spokane
Quint, Harry, Sci.....	Seattle
Quist, Helen, LA.....	Seattle
Quist, Myrtle L, LA.....	Seattle
Quistorff, Elmer, Fsh.....	Gig Harbor
Quistorff, Wallace W, Engr.....	Gig Harbor
Raban, Adelyne F, LA.....	Seattle
Rabel, Irvine B, Bus.....	Seattle
Rabel, Marjorie, Sci.....	Seattle
Raber, Beatrice I, LA.....	Tacoma
Raby, Rachel, FA.....	Seattle
Rachmanoff, Boris A, FA.....	Seattle
Rader, Norval, Bus.....	Spokane
Radin, Carl, Engr.....	Seattle
Radovin, Anne Marie, FA.....	Cashmere
Rae, Francis H, Bus.....	Seattle
Raes, Edger, Sci.....	Seattle
Rafn, A Morris, Sci.....	Puyallup
Ragsdale, Clinton R, Bus.....	Seattle
Ragge, Mary Beth, FA.....	Seattle
Rahe, Florence, LA.....	Seattle
Raichle, Marcus, Law.....	Yakima
Raine, W T, Engr.....	Bellevue
Rairdon, B B, Edu.....	Seattle
Ralkowski, Stanley, LA.....	Seattle
Ralewitz, Rose, LA.....	Vancouver
Ralls, Roberta, LA.....	Seattle
Ramm, Anne E, FA.....	Seattle
Ramm, Lawrence R, Bus.....	Seattle
Ramos, Manuel S, Edu.....	Philippines
Ramos, Peter, Engr.....	Philippines
Ramquist, Renel, Sci.....	Yashon
Ramsay, Beth, Sci.....	Victoria, BC
Ramsden, William, Engr.....	Seattle
Ramsey, Guy R, For.....	Seattle
Ramstad, C A, For.....	Everett
Ramstad, Lydia, Sci.....	Parkland
Ramstedt, Julius, Engr.....	Wallace, Idaho
Ramstad, Mary, LA.....	Wallas, Ida
Randall, Arthur, Bus.....	Seattle
Randall, Charlotte, Sci.....	Seattle
Randall, Gertrude E, LA.....	Seattle
Randall, Helen J, LA.....	Spokane
Randall, Helen M, Sci.....	Seattle
Randall, Kathryn, FA.....	Pueblo, Colo
Randall, Russell R, FA.....	Pueblo, Colo
Ranjo, Carlos C, LA.....	Seattle
Ranjo, Teodolo, Bus.....	Philippines
Rankin, Elwood, FA.....	Seattle
Rank, Carroll P, Grad.....	Cashmere
Ranney, Daniel A, Fsh.....	Seattle
Rantz, Fred A, Grad.....	Seattle
Rao, D N Moorty, For.....	India
Rapp, Clyde, FA.....	Seattle
Rapraeger, Elmer, For.....	Wausau, Wisc
Rardon, Marie, Bus.....	Seattle
Rarig, Grace, FA.....	Seattle
Rarig, Max H, LA.....	Seattle
Rasmussen, Berger, Fsh.....	Norway
Rasmussen, Elmer, LA.....	Skagway, Alaska
Rasmussen, Evangeline, Grad.....	Seattle
Rasmussen, Nels, FA.....	Seattle
Rasumoff, Victor B, Bus.....	Seattle
Ratchford, Audrey, LA.....	Sedro-Woolley
Ratekin, Inez, LA.....	Libby, Mont
Rathbun, Elizabeth, Sci.....	Seattle
Rathbun, John M, Grad.....	Seattle
Ratliff, Coralie, LA.....	Seattle
Rattray, Marjorie, Sci.....	Seattle
Raudenbush, George, LA.....	Tacoma
Raudenbush, Lenora M, Bus.....	Tacoma
Raudenbush, Nellie, Bus.....	Tacoma
Rawlins, Jack, Bus.....	Seattle
Rawson, Frances, FA.....	Tacoma
Ray, Julia, LA.....	Seattle
Ray, Verne F, LA.....	Seattle
Raymond, Ernest, Fsh.....	Seattle
Raymond, Gertrude, LA.....	Olympia
Raymond, Natalie, Sci.....	Seattle
Rayner, Barbara, LA.....	Seattle
Raynor, Edna May, Sci.....	Victoria, BC
Rea, Felix, LA.....	Renton
Read, Sarah L, LA.....	North Vernon, Ind
Rebodos, Marcario C, Bus.....	Philippines
Reading, Ruth, LA.....	Santa Rosa
Reaney, Richard, LA.....	Seattle
Reap, Mae, FA.....	Everett

Reaper, Wilford A, Engr.....	Snohomish
Reckard, Kenneth B, LA.....	Billings, Mont
Rector, Lewis, Grad.....	Seattle
Redden, Dan J, LA.....	Clarkston
Redfield, Ben, Sci.....	Seattle
Redman, Crosby E, Grad.....	Seattle
Redman, Kenneth, Phar.....	Melbourne
Redmond, Ruth L, LA.....	Snohomish
Redmyer, Ingeborg, LA.....	Friday Harbor
Redpath, Catherine, LA.....	Olympia
Redpath, Nat, Sci.....	Seattle
Reed, Barbara S, LA.....	Seattle
Reed, Caroline, Sci.....	Bellingham
Reed, Conner O, Sci.....	Bellingham
Reed, Gayle O, LA.....	Portland, Ore
Reed, Helen K, Bus.....	Los Angeles, Cal
Reed, Robert M, Sci.....	Chewelah
Reed, Ruth, Bus.....	Redmond
Reed, Wm G, LA.....	Shelton
Reeder, Della, LA.....	Gering, Neb
Reeder, Genevive M, LA.....	Seattle
Reedy, Katherine C, LA.....	Seattle
Reedy, Ramona P, LA.....	Seattle
Reekle, Richard D, Phar.....	Seattle
Reese, Evelyn, Sci.....	Sequim
Reese, Helen E, FA.....	Seattle
Reese, Helen L, FA.....	Sequim
Reese, Ralph V, LA.....	Seattle
Reese, Russell E, LA.....	Seattle
Reeves, Elizabeth, FA.....	South Bend
Regnell, Lloyd C, Grad.....	La Center
Reichert, Marguerite, Sci.....	Seattle
Reid, Alberta, LA.....	Tacoma
Reid, Alice M, LA.....	Seattle
Reid, Evelyn M, LA.....	Seattle
Reid, Kenneth, For.....	Seattle
Reid, Mel D, LA.....	Seattle
Reid, Melville, Bus.....	Ellensburg
Reid, Mildred, FA.....	Seattle
Reid, William T, Engr.....	Seattle
Rejerson, Margaret, Sci.....	Seattle
Relley, Eldon, LA.....	Seattle
Relly, Florence M, LA.....	Seattle
Relly, John, Jr, Law.....	Seattle
Reisman, Harold G, Phar.....	Odessa
Reine, Gertrude, Bus.....	Bothell
Reinc, Paul E, Engr.....	Bothell
Reinhart, Madeline C, Grad.....	Enid, Okla
Reinhart, Raymond E, Grad.....	Seattle
Reinken, Christine, Edu.....	Bothell
Reise, Herman A, Grad.....	Puyallup
Reisig, Evelyn, FA.....	Seattle
Remigallo, Vladimir M, Engr.....	Russia
Remley, Elizabeth, FA.....	Dryden
Remy, Evelyn, FA.....	Seattle
Renhard, Julius A, Engr.....	Aberdeen
Reno, Frank B, LA.....	Bellingham
Renn, Ruth, LA.....	Chelan
Renshaw, P Everett, Bus.....	Spokane
Renshaw, Edith Isabel, FA.....	Spokane
Renshaw, Helen, Sci.....	Wenatchee
Renshaw, Margaret, FA.....	Seattle
Renshaw, Minard R, Sci.....	Wenatchee
Renwick, Edw C, LA.....	Seattle
Replinger, John L, Engr.....	Seattle
Requa, Earl F, LA.....	Everett
Revelle, Margaret, Grad.....	Seattle
Reynolds, John, LA.....	Seattle
Reynolds, Le Roy M, Engr.....	Seattle
Reynolds, Louise T, LA.....	Seattle
Reynolds, Richard K, LA.....	Tacoma
Reynolds, Robert M, Engr.....	Seattle
Rhind, Earl S, Sci.....	Seattle
Rhode, Selma W, Grad.....	McMillin
Rhodes, Dorothy, LA.....	Seattle
Rhodes, Gertrude, Bus.....	Yakima
Rhodes, Helen H, LA.....	Seattle
Rice, Barrie S, Edu.....	Seattle
Rice, Frances H, LA.....	Portland, Ore
Rice, Maud Ruth, Grad.....	Eagle, Ida
Rich, A J, For.....	Seattle
Richard, Louis M, Jr, Min.....	Escondido, Cal
Richardson, Gladys M, Sci.....	Seattle
Richards, Elizabeth, Sci.....	Steptoe
Richards, Eugene, Sci.....	Seattle
Richards, John G, FA.....	Tacoma
Richards, Leon, Phar.....	Seattle
Richards, Marjora, LA.....	Richmond Beach
Richards, Thomas R, Bus.....	Veradale
Richardson, Carl T, Sci.....	Seattle
Richardson, Elizabeth C, Grad.....	Seattle
Richardson, Ethel M, LA.....	Seattle
Richardson, Gareth, LA.....	Seattle
Richardson, Geo Gardner, Sci.....	Seattle
Richardson, Gordon B, Min.....	Seattle
Richardson, Jeanne G, LA.....	Seattle
Richardson, Mary, Edu.....	Bellingham
Richardson, Robert, Bus.....	Tacoma
Richardson, Swanhild, FA.....	Seattle
Richardson, William, Engr.....	Seattle
Richenstein, Dale, Sci.....	Seattle
Riches, Doris E, Bus.....	Seattle
Richey, Wm Lee, Bus.....	Bremerton
Richmond, Claude, Edu.....	Seattle
Richmond, Richard B, LA.....	San Jose, Cal
Richmond, Volney, Jr, Sci.....	Fairbanks, Alas
Richter, Roland, Bus.....	Vance
Rickard, Richard M, LA.....	Seattle
Rickel, Ruth, LA.....	Spokane
Ricker, Robert B, Bus.....	Helena, Mont
Riebe, Edmund A, Bus.....	Seattle
Rieger, G Fred, Bus.....	Seattle
Riesenweber, F Haven, LA.....	Olympia
Rigby, Malcolm, Sci.....	Everett
Rigg, Charlotte, FA.....	Seattle
Rigg, Raymond R, For.....	Seattle
Riley, Betty, LA.....	Bellingham
Riley, Fenwick C, LA.....	Bellingham
Riley, Leslie, For.....	De Soto, Ia
Riley, Mary Elizabeth, Edu.....	Bellingham
Riley, Marcene, LA.....	Idaho Falls, Ida
Rimann, Hans, Sci.....	Merriam, Kan
Ring, Vivian, LA.....	Seattle
Ringrose, Harold, LA.....	San Francisco, Cal
Ringrose, Rhody, LA.....	San Francisco, Cal
Rinkel, Margaret C, FA.....	Seattle
Ripley, Betty, FA.....	Seattle
Ripley, Cecil R, Bus.....	Seattle
Ripley, Thelma, LA.....	Seattle
Riseland, Alice, Bus.....	Bellingham
Rising, Louis W, Grad.....	Seattle
Rising, Louis W, Phar.....	Seattle
Risk, Lee, Bus.....	Seattle
Risser, Arthur K, Bus.....	Bremerton
Risser, David, Bus.....	Seattle
Risser, Francis B, Engr.....	Bremerton
Riste, Donald E, LA.....	Seattle
Riste, Vic, LA.....	Seattle
Ritchie, Virginia, LA.....	Bell, Cal
Ritter, Aaine, LA.....	Spokane
Ritter, George, Bus.....	Seattle
Rivera, Andres D, Engr.....	Philippines
Rivers, Ralph J, Law.....	Fairbanks, Alaska
Roach, Eileen, LA.....	Bremerton
Roadnight, Margaret, LA.....	Spokane
Roake, Sarah Louise, LA.....	Seattle
Robarge, Edmere, Edu.....	Buffalo, Minn
Robarge, Julian N, Bus.....	Everett
Robb, Bamford B, LA.....	Walla Walla
Robb, Betty, LA.....	Spokane
Robb, Leroy Milton, LA.....	Seattle
Robb, Marian S, Grad.....	Spokane
Robbins, Franc, Libr.....	Buffalo, Wyo
Robbins, Frederick M, For.....	Tacoma
Robe, Cecil F, Grad.....	Seattle
Roberts, Cass B, For.....	Berkeley, Cal
Roberts, Dorothy, Sci.....	Vashon
Roberts, Eleanor K, LA.....	Seattle
Roberts, Ellis A, Engr.....	Seattle
Roberts, Grace, LA.....	Seattle
Roberts, John A, Sci.....	Spokane
Roberts, John R, For.....	Seattle

Roberts, H Kenneth, LA.....	Seattle
Roberts, Robert F, LA.....	Seattle
Roberts, Wm J, Law.....	Seattle
Robertson, F Kenneth, Bus.....	Cashmere
Robertson, Sadie MacDonald, Grad.....	Seattle
Robertson, Stewart, Bus.....	Seattle
Robins, Evelyn, LA.....	Waterville
Robin, Frederick H, LA.....	Seattle
Robinson, Ben, Law.....	Centralia
Robinson, Cloyd, LA.....	Seattle
Robinson, Clyde A, Law.....	Pinehurst
Robinson, Dorothy, Sci.....	Seattle
Robinson, Doryce V, Bus.....	Post Falls, Ida
Robinson, George L, Bus.....	Seattle
Robinson, Gerald S, LA.....	Seattle
Robinson, Grace, LA.....	Lilliuap
Robinson, Marvin H, LA.....	St Louis, Mo
Robinson, Miriam, LA.....	Seattle
Robinson, Roal S, Bus.....	Tacoma
Robinson, Salome, LA.....	Seattle
Robson, Wesley, Grad.....	Seattle
Rodenhouse, Evert, Engr.....	Seattle
Rodgers, Marcus D, Engr.....	Seattle
Rodgers, Roe P, Engr.....	Seattle
Rodgers, William M, Bus.....	Port Ludlow
Rochr, Margaret B, LA.....	Seattle
Rochin, Eugene, Engr.....	Tacoma
Roesch, Francis E, LA.....	Spokane
Roetger, Ethel, FA.....	Puyallup
Roffe, Sam, Bus.....	Seattle
Rogers, Anabel M, LA.....	Seattle
Rogers, Helen I, LA.....	Seattle
Rogers, Jack C, Engr.....	Seattle
Rogers, James, Phar.....	Seattle
Rogers, Katherine F, Sci.....	Seattle
Rogers, Nelson, LA.....	Vernonia, Ore
Rogers, Paul, LA.....	Seattle
Rogers, Russell, Bus.....	Spokane
Rogers, Steiniger C, Fsh.....	Seattle
Rogg, J Verne, LA.....	Dayton
Rogge, Edgar A, Sci.....	Seattle
Rognan, Ruth, LA.....	Seattle
Rogozina, Raisa, LA.....	China
Rohlf, Marcus, LA.....	Seattle
Rohne, Lyle, LA.....	Seattle
Rohowits, Edythe K, LA.....	Seattle
Rohrbough, Marie, LA.....	Tacoma
Rojo, Trinidad, LA.....	Philippines
Rolf, Helen M, LA.....	Tacoma
Ronan, Edward A, Bus.....	Seattle
Rood, Sidney, LA.....	Seattle
Roper, Otis, Engr.....	Amboy
Rose, Irma, FA.....	Seattle
Rose, Jean, LA.....	Seattle
Rose, Jerome J, Bus.....	Seattle
Rose, Julia Florence, LA.....	Seattle
Rose, Keith, Bus.....	Spokane
Rose, Robert, LA.....	Olympia
Rose, Vander J, LA.....	Seattle
Rosellini, Dean, LA.....	Tacoma
Rosen, Bencie, Engr.....	Seattle
Rosen, William, LA.....	Seattle
Rosenbaum, Joseph H, LA.....	Seattle
Rosenberg, Dorothea, LA.....	Spokane
Rosenberg, Jess N, LA.....	Seattle
Rosenberg, Naomi, LA.....	Spokane
Rosene, Arthur H, LA.....	Boise, Ida
Rosenstein, Sophie, LA.....	Portland, Ore
Ross, Arthur R, Fsh.....	Seattle
Ross, Fred K, LA.....	Vancouver
Ross, Harriett, LA.....	Seattle
Ross, Joy, LA.....	Seattle
Ross, Katherine L, LA.....	Aberdeen
Ross, Margaret M, Sci.....	Hawaii
Ross, Marion E, FA.....	Seattle
Ross, Rex L, Sci.....	Yakima
Rosback, Doris E, LA.....	La Grange, Ill
Russell, Franklin, Law.....	Mt Vernon
Rosser, Elvin T, LA.....	Stanwood
Rosman, Eugene W, Bus.....	Vancouver
Rosted, Daniel P, For.....	Kelso
Rostgaard, Sverre, LA.....	Tacoma
Roth, Helen, Sci.....	Seattle
Rothrock, Ralph A, Bus.....	Cosmopolis
Rothwell, Florence V, LA.....	Kelso
Rotta, Allen E, Engr.....	Seattle
Rottler, Arthur I, LA.....	Helena, Mont
Round, Donald, Sci.....	Olympia
Roundefell, George A, Grad.....	Seattle
Roupe, Dorothy, FA.....	Seattle
Rousseau, Imogene, Grad.....	Wis Rpds, Wis
Rourke, George W, Jr, LA.....	Seattle
Rousch, Minnie A, Edu.....	Palectene, Ill
Rovelstad, Trygve A, FA.....	Elgin, Ill
Rowe, Archie H, Bus.....	Bellingham
Rowe, Helen, FA.....	Libby, Mont
Rowe, James, LA.....	Everett
Rowell, Irving, Engr.....	Seattle
Rowland, Ellen H, FA.....	Tacoma
Rowland, Ellenor, Sci.....	Seattle
Rowland, Gersham, LA.....	Tacoma
Rowse, William, For.....	Seattle
Royal, Janice L, LA.....	Seattle
Royal, Lloyd A, Fsh.....	Seattle
Rozema, Paul K, Engr.....	Seattle
Rubenstein, Anita, LA.....	Seattle
Rucker, J D, Law.....	Everett
Rucker, Margaret, LA.....	Everett
Ruckles, Dee, LA.....	Kalama
Ruddell, Hazel, LA.....	Seattle
Rude, Edna, Sci.....	Kent
Rude, Herschel, Engr.....	Seattle
Ruff, Frank J, LA.....	Seattle
Ruffcorn, Geraldine, FA.....	Seattle
Rummens, Helen B, LA.....	Seattle
Rummens, William S, LA.....	Seattle
Rundall, John, LA.....	Seattle
Runner, Melvin E, Bus.....	Seattle
Runer, Helga, For.....	Norway
Runte, James C, Bus.....	Seattle
Rupp, Alice G, LA.....	Seattle
Rupp, Virginia, FA.....	Seattle
Rush, Leo, Engr.....	Auburn
Russell, A. D, Engr.....	Oakesdale
Russell, Betty, FA.....	Seattle
Russell, C H, LA.....	Harrison, Ida
Russel, France, IA.....	Butte, Mont
Russell, Geo V, FA.....	San Bernardino, Cal
Russell, Helen M, Grad.....	Seattle
Russell, Irene, Sci.....	Seattle
Russell, Mary Ellen, Sci.....	Seattle
Russell, Ross M, Jr.....	Glendale, Cal
Russell, Roy N, Bus.....	Chewelah
Russell, Walter H, Engr.....	Springton, Ida
Ruth, Verle Arlie, Sci.....	Stanwood
Rutherford, Dorothy, LA.....	Seattle
Rutherford, Eugene A, Phar.....	Lake Stevens
Rutledge, C E, Engr.....	Seattle
Rutledge, James A, Phar.....	Seattle
Raud, Otto F, Bus.....	Waterville
Ryan, Burns, LA.....	Seattle
Ryan, Clayton W, LA.....	Cheney
Ryan, Florence I, Grad.....	Seattle
Ryan, Frank W, Law.....	Bremerton
Ryan, Geraldine, LA.....	Seattle
Ryan, Grace, LA.....	Stanwood
Ryan, John M, LA.....	Seattle
Ryan, John C, LA.....	Seattle
Ryan, Vera, Bus.....	Wallace, Ida
Ryder, Edmund, Engr.....	Seattle
Rydeen, Henry R, Fsh.....	Mercer Island
Rystogi, Wilfred, LA.....	Seattle
Sackett, Percy, Bus.....	Seattle
Sahli, Ida Mae, LA.....	Hogulam
Sahli, Walter, Law.....	Hogulam
Sahlun, Carl V, For.....	Anacortes
Said, La Bruce, Sci.....	Seattle
Saindon, Vernon, LA.....	Chehalis
Saint-Amour, Robinson, LA.....	Cleveland, O
Sakis, James J, Sci.....	Seattle

Salisbury, Albert P, LA.....	Seattle
Salisbury, Julia, LA.....	Seattle
Salstrom, Mae Elliott, Sci.....	Kelso
Salladay, Thelma, Sci.....	Seattle
Salmon, Elizabeth, LA.....	Seattle
Salo, Vieno, LA.....	Aberdeen
Salisbury, Helen, LA.....	Havre, Mont
Salstrom, Edward J, Grad.....	Kelso
Salvesen, Sigurd, For.....	Seattle
Sampley, Violet B, FA.....	Bellingham
Sampson, Alvena, LA.....	Seattle
Sampson, Evelyn Mae, LA, Ketchikan, Alas	
Sampson, Eugene G, Engr.....	Marshfield, Ore
Samson, Roy S, Engr.....	Bellingham
Samson, Victor J, Sci.....	Seattle
Sanchez y Escribano, F, Grad.....	Seattle
Sanchez, Isabello G, Sci.....	Philippines
Sanchez, Nina V, Grad.....	Seattle
Sandel, Donna M, LA.....	Kirkland
Sandell, Alice, FA.....	Seattle
Sandell, Herman A, Bus.....	Enumclaw
Sanderman, L A, Grad.....	Seattle
Sanders, Bernadine, Sci.....	Bremerton
Sanders, Mary M, LA.....	Cashmere
Sanderson, Gordon, Bus.....	Wenatchee
Sandholtz, Evelyn, Bus.....	Seattle
Sandifur, C Paul, Sci.....	Aberdeen
Sandner, Lucile, Sci.....	Seattle
Sandquist, Carl A, Jour.....	Seattle
Sandvigen, Ingray A, LA.....	Seattle
Sanfield, Louise, Sci.....	Seattle
Sanford, Bruce, LA.....	Seattle
Sanford, Eddie H, Bus.....	Bucada
Sanford, Henry S, Law.....	Seattle
Sanford, Marcus, Engr.....	Pomeroy
Sangder, Otto H, Engr.....	Seattle
Sangster, Ted, Bus.....	Seattle
Sankela, Wm F, For.....	Ilwaco
Sargent, Charles S, Engr.....	Seattle
Sargent, Harrison P, LA.....	Seattle
Sarginson, Barbara, Bus.....	Seattle
Sarginson, John, For.....	Seattle
Sarki, Lillie O, LA.....	Northport
Sather, Florence, LA.....	Seattle
Sather, Kenneth, LA.....	Seattle
Sato, Kimji, Engr.....	Seattle
Sato, Makoto, Engr.....	Seattle
Saunders, Kenneth V, Bus.....	Avery, Ida
Saunders, Louise C, Sci.....	Seattle
Saunders, Nan, Sci.....	Seattle
Saunders, Virginia, LA.....	Seattle
Saunders, Wilbert B, Sci.....	Kelso
Savage, Anne E, LA.....	Seattle
Savage, Audrey, Edu.....	Seattle
Savage, George M, Jr, LA.....	Tacoma
Savage, Margaret E, Libr.....	Tacoma
Savage, Thos, Engr.....	Birdsview
Savery, Barnett, Grad.....	Seattle
Saxton, Ralph C, Jr, LA.....	Seattle
Scaman, John, LA.....	Seattle
Scarborough, Dorothee, Law.....	Olympia
Scarborough, Louis, LA.....	Seattle
Schacht, Richard F, LA.....	Burlington
Schade, Robert J, Bus.....	Seattle
Schafer, Edward P, LA.....	Aberdeen
Schafer, George F, Engr.....	Seattle
Schafer, James E, LA.....	Anacortes
Schafer, Louis R, Engr.....	Kirkland
Schaff, Edward, Eng.....	Seattle
Schaffer, Claude, Engr.....	Seattle
Scholler, Joseph B, FA.....	Okanogan
Scharpenberg, Paul F, LA.....	La Crosse
Schatz, Lester E, Bus.....	Woodland
Schatz, Milton, Sci.....	Seattle
Scheffer, Theodore C, Sci.....	Seattle
Scheffer, Victor, Sci.....	Puyallup
Schegolkov, Victor K, Engr.....	Seattle
Scheiblerger, Anne, Sci.....	Seattle
Scheitlin, Frieda M, LA.....	Glendive, Mont
Scheldt, Arnold, Bus.....	Everett
Schell, Theodore, LA.....	Seattle
Schell, Thomas J, Bus.....	Seattle
Schellenger, Kathryn, LA.....	Ralston
Schellin, Albert, For.....	Seattle
Schenk, Elizabeth, LA.....	South Bend
Schermerhorn, Lee R, Engr.....	Seattle
Schertel, Max, Grad.....	Seattle
Scheuch, Carl W, Law.....	Seattle
Scheuch, Margaret, FA.....	Zenith
Scheumann, V R, Engr.....	Seattle
Schimke, Harold, Sci.....	Odessa
Schlunell, Hans P, Engr.....	Tacoma
Schlegel, M Hoover, Bus.....	Everett
Schlegel, Wm B, Bus.....	Tacoma
Schlicting, H R, Bus.....	Davenport
Schlicting, Pat, LA.....	Davenport
Schlossstein, Clifford F, Law.....	Yakima
Schmidt, Alfred, Engr.....	Seattle
Schmidt, C Robert, Sci.....	Creston
Schmid, Calvin F, Grad.....	Seattle
Schmidt, Carl B, For.....	Seattle
Schmidt, Carolue W, FA.....	Olympia
Schmidt, Henry E, Jr, LA.....	Seattle
Schmidt, B Loring, LA, Idaho Falls, Ida	
Schmidt, Louise W, Sci.....	Olympia
Schmidt, C Robert, Sci.....	Creston
Schmitz, Julia, LA.....	Walla Walla
Schmoyer, Clyde L, Bus.....	Seattle
Schmoe, Floyd W, Sci.....	Seattle
Schneider, Robert J, Bus.....	Seattle
Schneiderman, Harry, Bus.....	Portland, Ore
Schoeggl, Carl, Bus.....	Winlock
Schoen, Frederick, Bus.....	San Jose, Cal
Schoettler, Robert J, Bus.....	Seattle
Schoolnik, Max L, Sci.....	Portland, Ore
School, Miriam, LA.....	Seattle
Schoppe, Mary H, FA, Santa Monica, Cal	
Schrader, Otto Harry, Jr, Sci.....	Seattle
Schreiber, Walter, Bus.....	Vancouver
Schreuder, Ludwig, LA.....	Seattle
Schroeder, Carl C, Bus.....	Port Angeles
Schroeder, Herman J, Phar.....	Seattle
Schroeder, Karsten A, Bus.....	Cottonwood, Ida
Schroeder, Marlon, LA.....	Seattle
Schubart, Emil P, LA.....	Tacoma
Schuchman, Marie E, Sci.....	Centralla
Schuh, LeRoy, Edu.....	Everett
Schuh, William, For.....	Tacoma
Schuler, Sarah, Sci.....	Seattle
Schultheis, Fred D, LA.....	Seattle
Schultheis, Marlon D, LA.....	Seattle
Schultz, Carolyn D, LA.....	Spokane
Schultz, David H, Bus.....	Spokane
Schuman, Harry L, LA.....	Bellingham
Schuman, Sarah H, Grad.....	Bellingham
Schumer, Anne, Bus.....	Seattle
Schumer, Helen E, LA.....	Seattle
Schunke, Gustav B, Sci.....	Seattle
Schusman, Dorothy, Edu.....	Snoqualmie
Schuss, Albert G, Law.....	Seattle
Schuss, Charles, Bus.....	Chehalis
Schwager, Lewis, Jr, LA.....	Seattle
Schwartz, Belda, Sci.....	Marshfield, Ore
Schwartz, Charles, Jr, Phar.....	Seattle
Schwartz, Louie, Bus.....	Seattle
Schwartz, Margaret, Bus.....	Reardan
Schwartz, Nadine, FA.....	Seattle
Schwarz, Eleanor, FA.....	Seattle
Schwarz, Harvey G, Sci.....	Seattle
Schweizer, Carl A, Bus.....	Seattle
Schwegler, Paul, LA.....	Raymond
Scobba, Elmo J, Engr.....	Camas
Scofield, Irene, Sci.....	Seattle
Scordan, Mary, LA.....	Seattle
Scordan, Vincent, LA.....	Seattle
Scott, Beatrice K, LA.....	Seattle
Scott, Dorothy, LA.....	Seattle
Scott, Elsie H, Sci.....	Wenatchee
Scott, Ethel U, Sci.....	Seattle
Scott, John, Engr.....	White Horse, Alaska
Scott, Lucile, Sci.....	Tacoma
Scott, Mary K, FA.....	Seattle

Scott, Nancy M, LA.....	Seattle	Sharp, J W, LA.....	Longview
Scott, Norman, Sci.....	Tacoma	Sharp, Mary Corta, Grad.....	Seattle
Scott, Peggy, LA.....	Seattle	Sharpe, Gertrude, LA.....	Portland, Ore
Scott, Ralph, Bus.....	Seattle	Shaughnessy, Albert E, FA.....	Auburn
Scott, Robert MacD, Engr.....	Seattle	Shaughnessy, Richard, FA.....	Auburn
Scott, Robert W, Grad.....	Vancouver	Shaver, Kathryn, LA.....	Seattle
Scott, Ruth L, Sci.....	Enterprise, Ore	Shaw, Albert, Bus.....	Washington, DC
Scott, Sara J, Sci.....	Vancouver	Shaw, T H, Engr.....	Puyallup
Scott, Thomas D, Engr.....	Seattle	Shaw, Frank, LA.....	Great Falls, Mont
Scott, Walter G, FA.....	Ketchikan, Alaska	Shaw, Hugh Walter, LA.....	Victoria, BC
Scott, Winfield C, LA.....	Washougal	Shaw, Irma, Sci.....	Arlington
Scott, Winston, Sci.....	Wenatchee	Shaw, John H, LA.....	Seattle
Scoville, Orrin A, LA.....	Portland, Ore	Shaw, Marlan E, FA.....	Seattle
Scowcroft, Ernest, FA.....	Seattle	Shaw, Melville A, LA.....	Havre, Mont
Scriven, L Edward, Edu.....	Seattle	Shaw, Robert A, LA.....	Seattle
Scudder, Helen, Sci.....	Melba, Ida	Shawhan, Ferne D, FA.....	Seattle
Scudder, Walter, LA.....	Seattle	Shearer, R Desmond, LA.....	Sunnyside
Seaburg, Helen, LA.....	Seattle	Shearer, Florence, Sci.....	Auburn
Seabury, Claire V, Sci.....	Seattle	Shearer, Kathleen M, LA.....	Seattle
Seabury, Jessie, LA.....	Seattle	Shearer, Mildred D, LA.....	Los Angeles, Cal
Seagle, Mildred E, Sci.....	Palouse	Sheehan, Mary Isabel, LA.....	Seattle
Seagraves, Roy W, LA.....	Seattle	Sheehan, Rosamond, FA.....	Seattle
Sealls, Rachel J, Grad.....	Seattle	Sheffield, Duncan, LA.....	Seattle
Searls, Helen E, LA.....	Seattle	Sheldon, Mary E, Bus.....	Seattle
Sears, Edith K, LA.....	Deer Lodge, Mont	Sheller, Ruth, Sci.....	San Jose, Cal
Seaton, Carol, LA.....	Seattle	Shellenberger, John A, Sci.....	Seattle
Sebastian, Roman C, Phar.....	Philippines	Shelley, W F, LA.....	Mercer Island
Sebastian, Sinforsio P, Sci.....	Philippines	Shelton, Arthur L, Grad.....	Seattle
Secrest, Ruth, FA.....	Seattle	Shelton, Helen E, LA.....	Seattle
Sedgwick, Thomas, LA.....	Honolulu	Shelton, Leland, LA.....	Peradale
Seel, Kathryn, FA.....	Tacoma	Shelton, Leonore D, Grad.....	Shelton
Seeliger, Clarence E, Bus.....	Seattle	Shepard, Charles, Engr.....	Everett
Seely, Harold L, Sci.....	Seattle	Shepard, Evelyn, LA.....	Puyallup
Seelye, Winthrop, Bus.....	Tonasket	Shepard, Elizabeth M, Sci.....	Wenatchee
Seguritan, Numeriano, LA.....	Philippines	Shepard, Homer, Bus.....	Spokane
Segerstrom, Edna, Bus.....	Seattle	Shepard, Esther, Grad.....	Seattle
Seghetti, Lbero, Engr.....	Eatonville	Sheppard, John A, LA.....	Seattle
Seldell, Arthur, LA.....	Sedro-Woolley	Shepard, Mary T, Sci.....	Wenatchee
Seldell, Stanley A, LA.....	Sedro-Woolley	Shepherd, Margery J, LA.....	Seattle
Seldennerg, Sanford, LA.....	Seattle	Shepherd, Ardice M, LA.....	Kennewick
Seijas, A, LA.....	Seattle	Shepherd, Alyce, FA.....	Ottumwa, Ia
Seiter, H Ridgely, Sci.....	Seattle	Shepherd, Ruth A, LA.....	Hollywood, Cal
Sekimoto, Suehiko, Bus.....	Japan	Sherman, Desolee, LA.....	Seattle
Selby, Kenneth E, Grad.....	Bellingham	Sherman, George W, LA.....	Bellingham
Seller, H Richard, LA.....	Seattle	Sherman, Hazel Jean, LA.....	Seattle
Sellers, Elbert E, LA.....	Seattle	Sherman, John L, Engr.....	Seattle
Selmensky, D, Engr.....	Seattle	Sherman, Leslie, Sci.....	Portland, Ore
Seltzer, Alvin J, Grad.....	Seattle	Sherrill, Mildred, Sci.....	Tacoma
Selvidge, Lewis, LA.....	Olympia	Shevling, Charles E, Engr.....	Seattle
Semb, Balwan A, Sci.....	Puyallup	Shew, Paul T, LA.....	Seattle
Semon, Darrell, Bus.....	Eugene, Ore	Shibata, Welly T, LA.....	Spokane
Senior, Carl, Bus.....	Seattle	Shier, Orville, Engr.....	Seattle
Serrurier, Beulah, LA.....	Lynden	Shib, Baconie, LA.....	China
Seto, Stanford, Sci.....	Hawaii	Shimomae, Yuki, LA.....	Seattle
Setzer, Maury, Bus.....	Tacoma	Shinbo, Hachiro, Sci.....	Seattle
Severance, Ruth B, FA.....	Donnd	Shinolt, Robert, LA.....	Seattle
Severin, Roy T, Bus.....	Warren, Minn	Shioml, Saige, Bus.....	Seattle
Sewall, Betty R, LA.....	Portland, Ore	Shipley, Dorothy, Edu.....	Seattle
Sey, Harriet Ann, LA.....	Douglas, Alaska	Shirk, Grace A, LA.....	Seattle
Seymour, Gladys E, LA.....	Seattle	Shorett, La Monte, FA.....	Seattle
Seyster, Alvin O, LA.....	Wenatchee	Shorett, Lloyd W, LA.....	Seattle
Sexton, Harold J, Engr.....	Seattle	Shorett, Richard A, Bus.....	Seattle
Shackelford, John L, Sci.....	Tacoma	Shorrock, Vincent, LA.....	Seattle
Shackelford, Ruby, Bus.....	Billings, Mont	Short, Arline L, Edu.....	Bellingham
Shaffer, Harvey, Fsh.....	Seattle	Short, Ellis K, LA.....	Seattle
Shaffer, Knute, Engr.....	Seattle	Short, Martha, Sci.....	Walla Walla
Shaffer, Ralph C, Min.....	Portland, Ore	Short, Philip R, LA.....	Ellensburg
Shagren, Margaret P, LA.....	Lynden	Showacre, Robert, LA, Engr.....	Spokane
Shain, Dorothy M, Bus.....	Tacoma	Showalter, N D, Jr, Engr.....	Cheney
Shallit, Rebecca, LA.....	Tacoma	Shrader, Mervin J, Bus.....	Perndule
Shaller, James L, LA.....	Seattle	Sbryock, Katharine, LA.....	Seattle
Shanahan, Daniel J, LA.....	Seattle	Shucklin, Gerald, Law.....	Seattle
Shanedling, Minna F, LA.....	Centralia	Shuff, Carroll R, LA.....	Seattle
Shank, Corwin P, Law.....	Seattle	Shulman, Leo, Bus.....	Seattle
Shank, Edward, LA.....	Long Beach, Wn	Shuman, Richard F, Sci.....	Seattle
Shannon, Elizabeth, FA.....	Seattle	Shumway, Ethel Mae, Sci.....	Deming
Shannon, Lea Krug, FA.....	Winslow	Shusta, Paul, Bus.....	Seattle
Shannon, Lyle E, FA.....	Santa Cruz, Cal	Siende, Sarah B, FA.....	Tacoma
Shannon, Margaret F, LA.....	Wenatchee	Sidell, Irving T, Bus.....	Seattle
Shanstrom, Helen, LA.....	Seattle	Siderin, D Gwendoline, Edu.....	Butte, Mont
Sharp, Glenna F, LA.....	Seattle	Siegley, David P, Bus.....	Seattle

Silemon, Fred A, Bus.....	Wenatchee	Smith, R Clifford, Sci.....	Sedro-Woolley
Sievers, Howard, LA.....	Everett	Smith, Constance M, FA.....	Seattle
Sievers, John, LA.....	Everett	Smith, Cora Lynn, Bus.....	Okanogan
Sievers, June, FA.....	Everett	Smith, Cornelius J, Engr.....	Victoria, BC
Sievers, May, FA.....	Everett	Smith, Courtney M, Sci.....	Everett
Sievers, Verne, Bus.....	Everett	Smith, Dean M, Fish.....	Seattle
Sikes, Kenneth, Engr.....	Carnation	Smith, Delmar E, Engr.....	Anaconda, Mont
Sill, Miriam L, LA.....	Bothell	Smith, P Donald, Bus.....	Yakima
Sillman, Bessie E, Sci.....	Spokane	Smith, Doris L, FA.....	Vancouver, BC
Sills, Vellie M, LA.....	Seattle	Smith, Dorothy L, FA.....	Seattle
Silva, Arthur Floyd, LA.....	Shoshone, Ida	Smith, Dorothy M, Bus.....	Wenatchee
Silverglade, Alexander X, Phar.....	Centralia	Smith, Eleanor C, LA.....	Spokane
Silverstone, Florence J, FA.....	Seattle	Smith, Ellamarie, Sci.....	Omak
Silverstone, L E, Bus.....	Seattle	Smith, Elizabeth A, Bus.....	Spokane
Sim, William T, Mines.....	Seattle	Smith, Ellis A, Sci.....	Tacoma
Simcoe, Fred J, For.....	Pt Townsend	Smith, J Emory, Bus.....	Aberdeen
Simatou, Amelia, LA.....	Longview	Smith, Ethel A, LA.....	Seattle
Simenstad, E Patience, LA.....	Seattle	Smith, Ford, LA.....	Spokane
Simmer, Edwin, Sci.....	Wenatchee	Smith, Frances E, Sci.....	Hamilton
Simmons, Eva M, Bus.....	Ridgefield	Smith, Frances Elaine, FA.....	Seattle
Simmons, Katherine, Sci.....	North Bend	Smith, Frank P, Bus.....	Pocastello
Simmons, Viola, LA.....	Everett	Smith, Frederick C, Grad.....	Seattle
Simon, Henrietta, LA.....	Seattle	Smith, Gall W, Grad.....	Seattle
Simpson, Alex L, Min.....	Seattle	Smith, George Eldon, Law.....	Seattle
Simpson, Elizabeth M, Edu.....	Selah	Smith, J Gordon, LA.....	Cle Elum
Simpson, Elizabeth, LA.....	Seattle	Smith, Graham J, LA.....	Seattle
Simpson, Elizabeth, LA.....	Selah	Smith, Harold B, Phar.....	Yakima
Simpson, Helen, LA.....	Berkeley, Calif	Smith, Harold B, Min.....	Seattle
Simpson, William, Bus.....	Tacoma	Smith, Harietta G, Bus.....	Seattle
Sinclair, Jack P, Edu.....	Seattle	Smith, Hector M, LA.....	Seattle
Sing, Marjorie Bruce, Libr. Cobble Hill, BC		Smith, HJordes, Grad.....	Seattle
Singer, Cecll Alton, Bus.....	Seattle	Smith, Helen Faye, Sci.....	Tacoma
Singer, Harold, LA.....	Seattle	Smith, Herbert H, Engr.....	Elma
Singson, Juan D, Min.....	Philippines	Smith, Horatio D, Engr.....	Seattle
Sinnoek, Burton L, Bus.....	Raton, NM	Smith, Irene M, LA.....	Seattle
Sjppel, Lucile E, Sci.....	Seattle	Smith, Janet, Sci.....	Seattle
Sisamore, L Orth, LA.....	Hoquiam	Smith, H Jeanette, FA.....	Seattle
Sisner, Bernice M, Sci.....	Seattle	Smith, Josephine, LA.....	Hoquiam
Sister M Antonette Montgomery, LA	Seattle	Smith, Joyce, Sci.....	Poplar, Mont
Sister, M Mildred Curtin, Grad.....	Seattle	Smith, Julia G, LA.....	Seattle
Sister, Mary Ethelred D, Grad.....	Seattle	Smith, Katherine M, LA.....	Bellingham
Sister, M Frances Clare, Sci.....	Seattle	Smith, Kathryn C, Bus.....	Seattle
Sister, M Loretta Gately, Grad.....	Seattle	Smith, J Ladd, LA.....	Bellingham
Sister M. Lernelia Balt, Grad.....	Seattle	Smith, Lenore C, Sci.....	Seattle
Slater, Mary Oliva, Grad.....	Seattle	Smith, Lorna, Sci.....	Seattle
Slater Mary Frances, FA.....	Seattle	Smith, Louie A, LA.....	Granite Falls
Slater, M Margaret O'Connell, Edu	Seattle	Smith, Louis F, FA.....	Auburn
Slater, Gabriel Ryan, Edu.....	Seattle	Smith, A Louise, LA.....	Mt Vernon
Sizer, Edgar R, Sci.....	Tacoma	Smith, Louise J, LA.....	Seattle
Sjloseth, Elmer O, Engr.....	Mt Vernon	Smith, Margaret A, Phar.....	Pinehurst
Skagen, Cora Jean, Sci.....	Kent	Smith, Margaret L, FA.....	Pasadena, Cal
Skalley, Kathleen, Edu.....	Everett	Smith, Martha E, LA.....	Seattle
Skidmore, Katherine, FA.....	Seattle	Smith, Mildred L, Bus.....	Seattle
Skidmore, Sanford G, LA.....	Ketchikan, Alas	Smith, Nell K, Bus.....	Seattle
Skinner, Kenneth G, Engr.....	Aberdeen	Smith, Otis E, LA.....	Tacoma
Skinner, Selby M, Sci.....	Seattle	Smith, Paul Duncan, Engr.....	Everett
Skreen, Evelyn, Sci.....	Tacoma	Smith, C Preston, Bus.....	Seattle
Skrefstad, Peter Haskon, FA.....	Seattle	Smith, F Richmond, Jr, Bus.....	Seattle
Slagle, Calvin, Bus.....	Seattle	Smith, Ronald B, Engr.....	Seattle
Slater, Lloyd B, LA.....	Spokane	Smith, Ross, Engr.....	Kent
Slattery, Elmer, For.....	Buckley	Smith, Rufus C, LA.....	Enumclaw
Slemmons, Warren B, LA.....	Ellensburg	Smith, Richard D, LA.....	Sunnier
Slipper, Lorna, LA.....	Hamilton	Smith, Shirley, FA.....	Seattle
Slife, Edith, Grad.....	Seattle	Smith, Stewart, FA.....	Courtney, BC
Sloane, Helen Canahan, Sci.....	Seattle	Smith, Ted A, LA.....	Seattle
Sloss, Reginald Stuart, LA.....	Seattle	Smith, Theodora, LA.....	St Paul, Minn
Slowske, George, Engr.....	Seattle	Smith, Theodore Franz, Sci.....	Seattle
Slyfield, Leona, LA.....	Seattle	Smith, Velma M, Bus.....	Seattle
Smaby, Marie E, Sci.....	Ocean Falls, BC	Smith, Virginia M, LA.....	Seattle
Smaby, Sylvia, Sci.....	Ocean Falls, BC	Smith, Wilda, Edu.....	Port Angeles
Small, Ila, LA.....	Seattle	Smith, A Zanonia, LA.....	Everett
Smalling, Cathrine, LA.....	Donald	Smyser, Hugh, LA.....	Ellensburg
Smart, Geo Stanley, LASan Francisco, Cal		Smyser, Martha M, LA.....	Ellensburg
Smetheram, F E, Grad.....	Spokane	Smyth, Agnes, LA.....	Seattle
Smiles, Kenneth G, Law.....	Seattle	Smythe, Ralph, LA.....	Tacoma
Smith, Alice E, Sci.....	Gold Hill, Ore	Sneilling, Lewis B, For.....	Aberdeen
Smith, Alistair M, Sci.....	Bellingham	Snead, Katherine, Bus.....	Yakima
Smith, Alverna, FA.....	Seattle	Snevely, Florence, Sci.....	Seattle
Smith, Charlotte B, Jour.....	Wenatchee	Snider, Monty B, Bus.....	Seattle
Smith, Clara Belle, LA.....	Kennewick	Snider, Ralph M, Bus.....	Puyallup
Smith, Carol Roberta, LA.....	Seattle	Snider, Ruth, LA.....	Puyallup

Snlider, Wm J, For.....	Puyallup
Snidow, Beulah, Sci.....	Willamette, Ore
Snidow, Harriet, Grad.....	Willamette, Ore
Snodgrass, Edwin W, Bus.....	Glendale, Cal
Snoke, Albert, Sci.....	Puyallup
Snowden, Richard, Engr.....	Ellensburg
Snyder, Carolyn C, Sci.....	Seattle
Snyder, George, Engr.....	Seattle
Snyder, Hal N, Bus.....	Seattle
Snyder, Helen V, LA.....	Seattle
Snyder, Howard, LA.....	Everett
Snyder, James L, Sci.....	Seattle
Snyder, Loyal R T, Law.....	Seattle
Snyder, Lulu, Sci.....	Seattle
Snyder, Ruth C, FA.....	Seattle
Snyder, Tamzan, LA.....	Ridgefield
Snyder, Violet M, LA.....	Seattle
Snypp, John F, Fsh.....	Tacoma
So, Hung Shu, Grad.....	Seattle
Soden, Clyde, Engr.....	Huntington Beach, Cal
Soderberg, Miriam, Sci.....	Seattle
Soderling, Harriet I, FA.....	Seattle
Soderquist, Albert A, Engr.....	Seattle
Soga, Harold, Sci.....	Anchorage, Alaska
Sognefest, Peder, Fsh.....	Seattle
Soholt, Leonard E, LA.....	Seattle
Solberg, Arley W, Fsh.....	Seattle
Solberg, Eveleth, FA.....	Seattle
Soldan, Dorothy, LA.....	Seattle
Sollbakke, Herbert, Engr.....	Snohomish
Soll, Marguerite, FA.....	Seattle
Somers, Alice, LA.....	Seattle
Somers, Eleanor, FA.....	Seattle
Sommer, Dorothy, LA.....	Seattle
Sommer, Eugene, LA.....	Portland, Ore
Sommer, Mary L, LA.....	Seattle
Sonne, Julius A, Engr.....	Burlingame, Cal
Sonju, Norman, Bus.....	Foulsbo
Sonneman, Betty, Sci.....	Spokane
Soots, Mary M, LA.....	Seattle
Sonensen, Oscar S, Sci.....	Seattle
Sorenson, Engle, LA.....	Bellevue
Sorensen, Harold, Bus.....	Los Angeles, Cal
Soss, Freda, LA.....	Spokane
Soth, John A, LA.....	Kennewick
Soth, Laurene M, LA.....	Kennewick
Soth, Tom, LA.....	Kennewick
Soukup, Hazel, Sci.....	Raymond
Soukup, Martin J, Engr.....	Leavenworth
Soule, John H, Sci.....	Anacortes
Soule, Nadine, LA.....	Seattle
Southard, Lloyd C, Edu.....	Seattle
Southard, Margaret, LA.....	Seattle
Southern, Vinton, Law.....	Seattle
Southwell, Lorene, Sci.....	Seattle
Southwick, Charles, Grad.....	Chelan
Sovereign, Helen M, LA.....	Puyallup
Space, Thelma L, Sci.....	Seattle
Spaeth, Aileen, Grad.....	Ketchikan, Alaska
Spalding, Harold W, Bus.....	Seattle
Spankie, Donald F, Bus.....	Vancouver, BC
Sparkman, Donald R, Sci.....	Seattle
Sparks, Harry, For.....	Wenatchee
Spaulding, Helen H, Bus.....	Seattle
Speayd, Marjorie G, LA.....	Yakima
Spear, Helen E, FA.....	Seattle
Spear, J Manton, Phar.....	Cashmere
Spear, Marjorie, LA.....	Provo, Utah
Spear, Sidney, LA.....	Cashmere
Spedden, Algene A, LA.....	Chewelah
Speer, William H, Bus.....	Seattle
Spence, Douglas J, Engr.....	Edmonds
Spencer, Arthur, Jr, LA.....	Portland, Ore
Spencer, Elman N, Bus.....	Seattle
Spencer, John, LA.....	Everett
Spencer, John W, For.....	Seattle
Spencer, Nuten, Sci.....	Puyallup
Spencer, Robert N, Sci.....	Seattle
Sperlin, Robert B, Engr.....	Moran School
Spicer, Mildred, Sci.....	Hoquiam
Splegle, Robert F, LA.....	Cosmopolis
Spigelman, Rae B, FA.....	Seattle
Spiller, John, Law.....	Seattle
Spinney, Beatrice I, Bus.....	Bothell
Spitznagel, George, Bus.....	Seattle
Spoor, Wm A, Fsh.....	Seattle
Sprouger, Marcella, FA.....	Prosser
Sproule, Dorothy, LA.....	Spokane
Sproule, Jack, FA.....	Tacoma
Sproule, Ralph B, Bus.....	Seattle
Spurgeon, Gwendolyn, LA.....	Seattle
Squires, Roy W, For.....	Seattle
Staaecker, Victor B, Bus.....	Seattle
Stack, Lillian, LA.....	Los Angeles, Cal
Stacy, Marjorie B, Sci.....	Pasadena, Cal
Stafford, Elizabeth, LA.....	Seattle
Stafford, John B, Law.....	Seattle
Stafford, Marye, Sci.....	Seattle
Stahlberg, Chas, Phar.....	Phoenix, Ariz
Stahre, Dorothy, Sci.....	Seattle
Stallings, Letta B, FA.....	Seattle
Stambaugh, James T, Engr.....	Seattle
Standard, Frances, Sci.....	Seattle
Standard, James F, Sci.....	Seattle
Stanford, R Kenneth, Engr.....	Seattle
Stangland, Helen Jane, LA.....	Seattle
Stanley, Dook, LA.....	Seattle
Stanley, Emery R, For.....	Seattle
Stanley, Frank C, Bus.....	Los Angeles, Cal
Stanley, I N, Grad.....	Seattle
Stanley, Lemuel W, LA.....	Seattle
Stansberry, Norman, Bus.....	Seattle
Starin, Cecelia, LA.....	Seattle
Stark, Melvin H, Bus.....	Seattle
Starkey, Helen, Sci.....	Seattle
Starr, Marion, FA.....	Seattle
Starr, Mary E, Sci.....	Seattle
Starrett, Ethel M, Sci.....	Burlington
Staser, Votaw, LA.....	Seattle
Stauter, Justin J, Sci.....	Seattle
Stavig, Inar, LA.....	Seattle
St Clair, Elizabeth S, FA.....	Seattle
St Clair, Laura, LA.....	Seattle
St Clair, Margaret, LA.....	Idaho Falls, Ida
St Clair, Virginia, LA.....	Seattle
Stead, Isabel, LA.....	Seattle
Stedman, Marcus, FA.....	Palo Alto, Cal
Stedman, Paul FA.....	Seattle
Steed, Mable Ann, Edu.....	Seattle
Steele, Eveis T, Bus.....	Seattle
Steele, Helen M, LA.....	Seattle
Steele, Jack, Phar.....	Tacoma
Steele, Lloyd E, Engr.....	Everett
Steele, M Ruth, Bus.....	Everett
Steele, Zoe Ellen, FA.....	Seattle
Steen, Elizabeth, LA.....	Seattle
Steen, Herbert, Engr.....	Concrete
Steen, Sigurd, Engr.....	Concrete
Steenstrup, Ida C, Bus.....	Seattle
Steffensen, Jessie E, Sci.....	Seattle
Steinbart, Kurt, Bus.....	Portland, Ore
Steiner, Griffith D, LA.....	Okanogan
Steinhart, Arden C, Bus.....	Seattle
Stephens, Ada I, Edu.....	Acme
Stephens, Chas, FA.....	Seattle
Stephens, Elinor, KA.....	Seattle
Stephens, L Dow, Sci.....	Seattle
Stern, Carolyn, Grad.....	Seattle
Sterns, Martin L, Grad.....	Seattle
Stetson, John B, Jr.....	Seattle
Stevens, Edward F, Engr.....	Wenatchee
Stevens, Gladys M, Sci.....	Whittier, Cal
Stevens, Henrietta, LA.....	Seattle
Stevens, Ivan E, Engr.....	Port Orchard
Stevens, James, Edu.....	Opportunity
Stevens, Leonard, Bus.....	Seattle
Stevens, Loraine H, FA.....	Wenatchee
Stevens, Pauline, LA.....	Seattle
Stevens, Richard H, LA.....	Tacoma
Stevenson, Harold, Grad.....	Seattle
Stevenson, Margaret L, LA.....	Seattle
Stevenson, Tom, For.....	Hillsboro, Cal

Stewart, Alma, Edu.....	Centralia	Streams, Earle H, LA.....	Seattle
Stewart, Elizabeth B, LA.....	Seattle	Strehlan, Herman, Fsh.....	Seattle
Stewart, B Eloise, LA.....	Baker, Ore	Strena, Victor E, Engr.....	Seattle
Stewart, Donald, LA.....	Seattle	Strickling, Stanley H, For.....	Seattle
Stewart, Evelyn, LA.....	Tacoma	Striker, Kenneth, FA.....	Seattle
Stewart, Emily, LA.....	Helena, Mont	Stritch, Irene, LA.....	Reed Point Mont
Stewart, Gordon K, LA.....	Seattle	Strobel, Keene, Bus.....	Tacoma
Stewart, John D, Phar.....	Graham	Stroble, Ray, Phar.....	Seattle
Stewart, Lillian C, Sci.....	Seattle	Strohl, Wellington M, Engr.....	Seattle
Stewart, Lyle P H, Grad.....	Seattle	Strom, Andrew D, Sci.....	Seattle
Stewart, Margaret, Bus.....	San Mateo, Cal	Stromberg, A Manfred, LA.....	Electron
Stewart, Marian, LA.....	Seattle	Strong, James H, Engr.....	Seattle
Stewart, R S, Engr.....	San Diego, Cal	Strong, Richard S, Law.....	Seattle
Stewart, Una A, LA.....	Burton	Stronin, George N, Engr.....	Seattle
Stickels, Carrie E, Sci.....	Seattle	Strong, F W, LA.....	Ashley Falls, Mass
Stickney, Lyman B, Edu.....	Bothell	Strother, Charles R, LA.....	Seattle
Stickney, Monro B, Engr.....	Seattle	Strother, Nancy, LA.....	Seattle
Sudd, Ruth M, LA.....	Ellensburg	Stuart, Elizabeth, LA.....	Tacoma
Stier, Cal, LA.....	Seattle	Stuart, Laura E, FA.....	Seattle
Stigler, George, Bus.....	Seattle	Stuart, Patricia, Sci.....	Seattle
Stiles, Dorothy, LA.....	Seattle	Stub, Sylvia, LA.....	Seattle
Stilwell, Eugene, LA.....	Seattle	Stuber, Esther E, Edu.....	Bellingham
Stimpson, Mabel R, Sci.....	Bellingham	Stucky, Phillip P, Edu.....	Monroe
Stinchfield, Margaret, LA.....	Hoquiam	Studebaker, Georgia, LA.....	Castle Rock
Stinson, Howard, Bus.....	Spokane	Studebaker, Robert, LA.....	Chehalis
Stinson, Verna, LA.....	Seattle	Stuermer, Ernest, Engr.....	Harrington
Stipek, Gladys R, LA.....	Glendive, Mont	Stuht, W Boyd, LA.....	Seattle
Stipek, Grace R, Bus.....	Glendive, Mont	Stump, Wilfred C, LA.....	Wrangell, Alaska
Stirling, Thomas Brents, LA.....	Walla Walla	Stunkard, C Russell, Engr.....	Seattle
Stith, Richard L, Engr.....	Seattle	Sturgis, Isabel, Grad.....	Seattle
Stitt, Margaret, Sci.....	Seattle	Stuntz, Alice, FA.....	Seattle
Stixrud, R Chester, Fsh.....	Seattle	Stuntz, George R, Law.....	Seattle
Stober, Caroline, Grad.....	Portland, Ore	Sturges, Beatrice, LA.....	Kent
Stocker, Hollis O, Sci.....	Seattle	Stwalley, Janet E, LA.....	Tacoma
Stockman, George, LA.....	Hamilton, Mont	Stwally, Ruth, Sci.....	Tacoma
Stoddard, Wayne, Bus.....	Everett	Stybor, Winifred, LA.....	Seattle
Stoehr, Wilma A, Bus.....	Boise, Ida	Suffel, Ewart G, Law.....	Seattle
Stohlton, Arthur J, LA.....	Seattle	Suffron, Clarence R, Bus.....	Seattle
Stokes, Margaret R, LA.....	Seattle	Sugarman, Ruth A, LA.....	Vancouver, BC
Stokes, Tom H, Bus.....	Seattle	Sugimachi, Yaemitsu, LA.....	Japan
Stoll, L Dorothy, Edu.....	Seattle	Sugiyama, Frank S, LA.....	Auburn
Stoltz, Geo E, For.....	Idone	Sullivan, James H, Engr.....	Butte, Mont
Stoltz, Margaret, LA.....	Spokane	Sullivan, Lloyd K, LA.....	Centralia
Stolz, Richard M, Bus.....	Salem, Ore	Sullivan, Mark, Jour.....	Seattle
Stone, Bessie E, Libr.....	Seattle	Sullivan, Margaret, LA.....	Seattle
Stone, Charles B, LA.....	Ridgefield	Sullivan, Robert E, Grad.....	Seattle
Stone, Harold R, LA.....	Seattle	Sulzer, Wm, LA.....	Seattle
Stone, Ida, LA.....	Seattle	Sumner, Dorothy, Sci.....	Wenatchee
Stone, Leslie A, Bus.....	Bellingham	Summers, Jack R, LA.....	Seattle
Stone, Loren B, LA.....	Seattle	Sun, Howard F S, LA.....	China
Stoneburner, Otto Worth, Edu.....	Seattle	Sundeen, Vera J, Sci.....	Spokane
Stoneman, A V, Law.....	Seattle	Sunnell, Anna Elvera, Bus.....	Mt Vernon
Storey, Oran A, Bus.....	Seattle	Supple, Virginia, LA.....	Seattle
Storey, Priscilla, LA.....	Seattle	Sutherland, Blanche, LA.....	Seattle
Stotler, Kenneth, Bus.....	Seattle	Sutherland, Helen C, FA.....	Seattle
Stout, Everett Lee, LA.....	Aberdeen	Sutherland, Mildred, LA.....	Seattle
Stout, Walter F, Bus.....	Aberdeen	Sutherland, Paul G, Bus.....	Seattle
Stout, Wesley E, Bus.....	Seattle	Sutherland, Ruth M, LA.....	Seattle
Stout, Wilfred L, LA.....	Seattle	Sutherland, Wm J, Grad.....	Tacoma
Stover, Lois, LA.....	Seattle	Sutton, Mrs Josephine E, Bus.....	Seattle
Stowell, Harold E, Phar.....	Cashmere	Sutor, John A, LA.....	Douglas
Stowell, Leland, Phar.....	Okanogan	Suzuki, Eitaro, Bus.....	Japan
Stoy, Nell, LA.....	Seattle	Suzuki, K Kee, Engr.....	Japan
St Peter, Neva M, FA.....	Seattle	Suzuki, Sakae, Sci.....	Seattle
Strachilla, Joseph, Engr.....	Clippier	Swan, Clarice, LA.....	Tacoma
Stradley, Muriel, Bus.....	Seattle	Swan, Darthea, Bus.....	Tacoma
Strain, Louise, LA.....	Seattle	Swan, Dean, Sci.....	Seattle
Strain, Robert J, Bus.....	Seattle	Swan, Helen E, Jour.....	Spokane
Strand, Elizabeth, Grad.....	Vancouver	Swanberg, Ruth, Bus.....	Seattle
Strand, Irene, LA.....	Aberdeen	Swank, Roy LA.....	Camas
Strand, Raymond J, LA.....	Seattle	Swann, Perry W, LA.....	Seattle
Strand, Solveig, LA.....	Seattle	Swanson, Anna Sophia, Grad.....	Seattle
Strandberg, Herbert V, Engr.....	Seattle	Swanson, Carl, LA.....	Everett
Strang, Pauline, FA.....	Bellevue	Swanson, Chester H, Phar.....	Bothell
Strasburger, Amanda, LA.....	Seattle	Swanson, Clarence W, LA.....	Troy, Mont
Strass, Mildred W, LA.....	Seattle	Swanson, John H, Bus.....	Renton
Stratton, Clyde, LA.....	Raymond	Swanson, Henry E, Engr.....	Seattle
Stratton, Doris, LA.....	Seattle	Swanson, Inez, FA.....	Bellingham
Stratton, Harold M, For.....	Seattle	Swanson, Kenneth, Bus.....	Seattle
Stratton, Irving R, Grad.....	Seattle	Swanson, Malcolm J, Engr.....	Seattle
Stray, Herbert A, FA.....	Seattle	Swanson, Melvin T, LA.....	Tacoma

Swanson, Ruby F, Edu.....	Troy, Mont	Taylor, H Verland, Bus.....	Seattle
Swanson, Thorild, LA.....	Seattle	Taylor, Vernal E, For.....	Klickitat
Swanson, Walter T, Phar.....	Everett	Taylor, William W, LA.....	Seattle
Swanson, Walter V, Jr, Law.....	Seattle	Tebb, Neal A, LA.....	Aberdeen
Swanson, Wendell, Engr.....	Spokane	Tefft, Dorothea J, Sci.....	Seattle
Swartz, Fanny, Sci.....	Seattle	Tefft, Iona F, FA.....	Seattle
Swartz, Joseph G, Jr, LA.....	Seattle	Tegtmeier, Helen, LA.....	Seattle
Swearingen, F D, Bus.....	Seattle	Teig, Ralph, Bus.....	Seattle
Sweazey, Ralph S, Bus.....	Seattle	Telser, William K, Law.....	Portland, Ore
Sween, Theodora, LA.....	Redmond	Teltgen, L Estelle, Sci.....	Yakima
Sweet, Rex W, Fsh.....	Seattle	Telford, Grace K, LA.....	Tacoma
Sweet, Wm B, Bus.....	Seattle	Temple, Lester R, LA.....	Onalaska
Sweet, William H, Sci.....	Centralia	Templeman, Perc L, FA.....	Seattle
Sween, Theodora, LA.....	Redmond	Templeton, David D, Bus.....	Bellingham
Swenson, Carl E, Engr.....	Seattle	Templeton, Jane, FA.....	Seattle
Swenson, Eunice, FA.....	Montesano	Tennant, Edmond G, LA.....	Seattle
Swenson, Vesta, FA.....	Seattle	Tennant, Dorothy, LA.....	Seattle
Swenson, Karl H P, Engr.....	Seattle	Tennant, Florence E, Sci.....	Longview
Swenseld, Harold A, Grad.Petersburg, ND	Seattle	Tennyson, Bill, LA.....	Seattle
Sweet, Viva Ellen, FA.....	Seattle	Tenos, Andres T, Engr.....	Philippines
Swim, Walton G, Bus.....	Twin Falls, Ida	Tepley, George L, Fsh.....	Seattle
Swoe, Benjamin J, Grad.....	East Farms	Terhune, Virgil, Law.....	Bryn Mawr
Sykes, Jeanette O, FA.....	Seattle	Terhune, George W, Engr.....	Seattle
Sylvester, John N, LA.....	Seattle	Terwilliger, Beulah M, FA.....	Seattle
		Terwilliger, Earvin, LA.....	Shelton
		Tesack, Kathryn E, FA.....	Seattle
Tachibana, Katsutoshi, FA.....	Seattle	Tesch, Mabel, Sci.....	Onk Harbor
Tadlock, Ruth, LA.....	Eureka, Cal	Tesreau, T Louis, Bus.....	Chehalis
Taft, Clare, LA.....	Seattle	Tessman, Edna, Bus.....	Seattle
Taft, Dorothy, FA.....	Beach	Teubner, Florence M, FA.....	Opportunity
Taggart, Betty, FA.....	Aberdeen	Thacker, Loren D, LA.....	Chehalis
Taggart, Elizabeth, FA.....	Seattle	Thatcher, Lansing C, Engr.....	Yakima
Talner, Frances M, Sci.....	DuPont	Thayer, Walter W, Bus.....	Seattle
Takai, Sumi-ko, Edu.....	Vashon	Thayer, J D, Sci.....	Seattle
Takahashi, Yoshio, Bus.....	Hawaii	Thels, Mattie, LA.....	Spokane
Takayoshi, Yurino, LA.....	Seattle	Thiel, Serreta M, Sci.....	Seattle
Takahashi, Yoshiomi, LA.....	Japan	Thiele, Dorothy, LA.....	Seattle
Takai, Shige, FA.....	Vashon	Thiele, Margarethe, Bus.....	Seattle
Takayoshi, Tomco, Bus.....	Seattle	Thode, Helen V, Sci.....	Boise, Ida
Talbot, Elizabeth L, Grad.....	Seattle	Thole, Marjorie F, Grad.....	Seattle
Talbot, Jane, FA.....	Seattle	Tholo, Stanley, Fsh.....	Cathlamet
Tallman, Bertha F, Edu.....	Seattle	Thomas, Alvin M, LA.....	Seattle
Tanaka, Wm, FA.....	Seattle	Thomas, Bertram, Sci.....	Renton
Tanberg, Barbara R, FA.....	Seattle	Thomas, Chester R, LA.....	Ellensburg
Tandy, Gladys, LA.....	Seattle	Thomas, Cosette, Bus.....	Seattle
Tang, Wu, LA.....	China	Thomas, Edward H, Engr.....	Seattle
Tangney, Clarence W, Bus.....	Seattle	Thomas, M Elizabeth, LA.....	Seahurst
Tanigawa, James, Bus.....	Honolulu	Thomas, Fernc, LA.....	Le Sueur, Minn
Tanner, Marget A, LA.....	Seattle	Thomas, Florence, FA.....	White Salmon
Tapscott, Clarence B, Law.....	Seattle	Thomas, George W, FA.....	Seattle
Tarbet, Roy E, Engr.....	Seattle	Thomas, John G, Engr.....	Seattle
Tarlow, Benjamin D, Bus.....	Vancouver	Thomas, Marie, LA.....	Seattle
Tarr, Raymond P, Jr, Bus.....	Tacoma	Thomas, Marie Lucille, LA.....	Suquamish
Tarshis, Jack, Sci.....	Seattle	Thomas, Mary L, Sci.....	Port Townsend
Tartar, Virginia, Sci.....	Seattle	Thomason, Marvin, Bus.....	Sandpoint, Ida
Tate, Walter G, Bus.....	Sunnyside	Thomason, Sybill, LA.....	Seattle
Tatsuma, Tatsuo, Bus.....	Japan	Thompson, Alice Dorothy, LA.....	Colfax
Tatsumi, Henry S, LA.....	Seattle	Thompson, J Arthur, LA.....	Seattle
Taugner, Conrad, Sci.....	Seattle	Thompson, Burson A, Bus.....	Seattle
Taylor, Arthur R, Phar.....	Seattle	Thompson, Charles I, Bus.....	Seattle
Taylor, Bessie E, Sci.....	Vancouver	Thompson, Claude S, Grad.....	Seattle
Taylor, Betty F, LA.....	Seattle	Thompson, Donald, Engr.....	Seattle
Taylor, Carroll A, LA.....	Seattle	Thompson, Dorothy C, LA.....	Seattle
Taylor, Chester A, Grad.....	Seattle	Thompson, Evaline H, FA.....	Everett
Taylor, Don A, Bus.....	Everett	Thompson, Frederick, Engr.....	Concrete
Taylor, Dean A, LA.....	Sumner	Thompson, Gladine, LA.....	Pullman
Taylor, Dwight, LA.....	Sumner	Thompson, Harry, Phar.....	Seattle
Taylor, Elinor J, LA.....	Tacoma	Thompson, Henry Norman, Bus.....	Sitka, Alaska
Taylor, Fred W, Bus.....	Tacoma	Thompson, Irma, LA.....	Seattle
Taylor, Helen F, Sci.....	Fall City	Thompson, Marc W, FA.....	Colfax
Taylor, Henry, LA.....	Seattle	Thompson, Mary E, LA.....	Colfax
Taylor, Howard Jean, Sci.....	Seattle	Thompson, Henry N, Bus.....	Sitka, Alaska
Taylor, John F, Jr, For.....	Kapowsin	Thompson, Page, LA.....	Seattle
Taylor, Joseph R, FA.....	Chehalis	Thompson, Randall L, Grad.....	Seattle
Taylor, Kathryn, LA.....	Enumclaw	Thompson, Robert S, Engr.....	Port Gamble
Taylor, Kyle, FA.....	Seattle	Thompson, Robert K, LA.....	Seattle
Taylor, Malcolm C, Bus.....	Seattle	Thompson, Seton H, Fsh.....	Seattle
Taylor, M Marie, Sci.....	Seattle	Thompson, Stella, LA.....	North Bend
Taylor, Morine, LA.....	Seattle	Thompson, Theodora B, Grad.....	Cedar Falls
Taylor, Robert M, LA.....	Marysville	Thompson, Vern I, Phar.....	Seattle
Taylor, A Stanley, LA.....	Sequim	Thompson, F Virginia, Sci.....	Seattle

Thompson, Wilbur B, Bus.....	Seattle	Towne, Albert B, Fsh.....	Seattle
Thomson, Helen Virginia, FA.....	Seattle	Towne, Harriet B, FA.....	Seattle
Thomson, Henry, LA.....	Seattle	Townsend, Eward H, Bus.....	Yakima
Thomson, Hermina W, LA.....	Ellensburg	Townsend, Paul, LA.....	Seattle
Thomson, Margaret, LA.....	Wilbur	Toyota, Norio, LA.....	Seattle
Thomson, Rose, LA.....	Seattle	Tracy, Jack S H, Bus.....	Seattle
Thomson, Stuart W, LA.....	Seattle	Tracy, James D, For.....	Seattle
Thompson, Nora E, LA.....	Seattle	Trafton, Ted, Bus.....	Seattle
Thorgrimson, Richard, LA.....	Seattle	Trapp, Lowell R, Engr.....	Orondo
Thormod, Erling, Engr.....	Spokane	Trathen, Dorothy, LA.....	Seattle
Thorn, Alfred A, LA.....	Seattle	Tratnik, Adolph, Sci.....	Black Diamond
Thornton, Ida Mae, Sci.....	Tacoma	Travis, John H, For.....	Portland, Ore
Thorne, Robert L, Engr.....	Renton	Travis, Merle, Edu.....	Seattle
Thornhill, Violet, LA.....	Seattle	Treadwell, Mildred, FA.....	Seattle
Thornton, Marion, Jour.....	Seattle	Treby, Helen, Sci.....	Seattle
Thornton, Thurlie, Bus.....	Seattle	Treucr, Robert F, LA.....	Seattle
Thorsteinson, Elsa, Edu.....	Point Roberts	Trentle, F G, Bus.....	Gig Harbor
Throssell, Wilbur, LA.....	Yakima	Trunkey, Elizabeth, LA.....	Spokane
Thueson, Dorothy J, LA.....	Seattle	Tresise, Gordon T, Bus.....	Carnation
Thurlaw, Harry, Engr.....	Seattle	Trentle, F G, Bus.....	Tacoma
Thurman, Ruth, LA.....	Bow	Trick, Doris V, FA.....	Seattle
Thurston, Robert C, Law.....	Yakima	Tripp, Andrey C, Journ.....	Seattle
Thurston, Wilson P, Bus.....	Spokane	Tripple, David D, Bus.....	Tacoma
Thurman, Winifred, FA.....	Spokane	Troberg, George, Engr.....	Seattle
Thynian, Richard W, Sci.....	Seattle	Troitzky, Simeon F, Engr.....	Seattle
Tiber, Bertha M, Sci.....	Fargo, ND	Tronstad, Menford S, Engr.....	Seattle
Ticknor, Harold W, Bus.....	Portland, Ore	Trotter, Marion E, LA.....	Honolulu
Tiedman, Eleanor, FA.....	Seattle	Trots, Harry E, Bus.....	Sumner
Tiemeyer, William F, Bus.....	Langley	Troutman, Samuel P, Edu.....	Seattle
Tilt, Lillian B, Grad.....	Seattle	Trow, Florence, Bus.....	Spokane
Tigner, Henry A, LA.....	White Bluffs	Troxell, Beryl, Sci.....	Bellingham
Tilford, Vera, LA.....	Seattle	Troy, Smith, Law.....	Olympia
Tilley, J Norman, Sci.....	Everett	Troy, Thomas, LA.....	Havre, Mont
Tilmont, Pauline, FA.....	Tacoma	Truax, Virginia, FA.....	Seattle
Tilton, Alice, Bus.....	Seattle	Truesdell, Herbert M, LA.....	Seattle
Timm, Henry T, Sci.....	Harrington	Trumbo, Virginia J, Sci.....	Seattle
Tinkcom, Dolores, FA.....	Seattle	Tryggvi, Carl, Grad.....	Bellingham
Tinkel, Gretchen, LA.....	Spokane	Tsung, Chi-Tung, LA.....	China
Tinker, Dorothy, Sci.....	Seattle	Tsukuno, Tomi, Bus.....	Seattle
Tinker, Spencer, LA.....	Seattle	Tsukuno, Toshi, Bus.....	Seattle
Tinstman, Harry O, Bus.....	Seattle	Tsurutani, Daniel, LA.....	Honolulu
Tipp, Leonard, FA.....	Seattle	Tull, Richard W, Sci.....	Seattle
Tippet, Wilma, FA.....	Seattle	Tubb, Frank B, FA.....	Seattle
Tjosem, Vance, LA.....	Boise, Ida	Tubbs, Susan E, LA.....	Harlem, Mont
Tobey, Clarence, Bus.....	Snohomish	Tubby, Elizabeth, LA.....	Seattle
Tobey, L W, Phar.....	Elma	Tucker, Bert Atherton, LA.....	Seattle
Tobias, Helen, FA.....	Seattle	Tucker, Lena Lucile, Grad.....	Seattle
Tobin, Marjorie, Bus.....	Seattle	Tucker, Margaret, Edu.....	Yakima
Todd, Forrest, LA.....	Seattle	Tucker, William F, LA.....	Seattle
Todd, O V, Pharm.....	Fort Allegany, Pa	Tucker, Walter D, Sci.....	Seattle
Todd, Sarah, LA.....	Nome, Alaska	Tunelah, Nellie, LA.....	Seattle
Todd, Seldon P, Engr.....	Seattle	Tunk, Nina, FA.....	Seattle
Toft, Theima, LA.....	Seattle	Tunstall, Don M, Law.....	Kalama
Togo, Yone, Engr.....	Seattle	Tullis, Eleanor P, Sci.....	Gooding, Ida
Tokarczyk, August J, LA.....	Tacoma	Turley, Bernice, FA.....	Toppensish
Tokarev, N J, Engr.....	Russia	Tullus, Lewis S, LA.....	Tacoma
Tolch, Kathleen, Sci.....	Bellingham	Turay, Margaret, Sci.....	Seattle
Toledo, Malecio B, LA.....	Philippines	Turay, Milton C, For.....	Seattle
Tolentino, Juan, LA.....	Philippines	Turnacliff, Dudley W, Fsh.....	Seattle
Tollefson, Thorwald, LA.....	Tacoma	Turnacliff, J Lloyd, Bus.....	Seattle
Tollefson, Rudolph J, Bus.....	Tacoma	Turnacliff, Mary L, Pharm.....	Seattle
Tolstrup, Katherine E, FA.....	Lakota	Turnbull, Crawford, FA.....	Tacoma
Tomlinson, Iris P, LA.....	Seattle	Turner, Charlotte, FA.....	Seattle
Tomowake, Alice Mary, LA.....	Spokane	Turner, Edwin T, FA.....	Seattle
Tomowake, Claire, LA.....	Spokane	Turner, Elizabeth, Libr.....	Seattle
Toner, John B, Bus.....	Seattle	Turner, Hope, FA.....	Seattle
Toochapsky, George, Engr.....	Seattle	Turner, John, Bus.....	Seattle
Toohy, Zelda, LA.....	Seattle	Turner, Leon F, LA.....	San Antonio, Tex
Tooley, Helen, Sci.....	Vancouver	Turner, Lucile, LA.....	Miles City, Mont
Toomey, Len L, Grad.....	Bothell	Turner, Robert C, LA.....	Seattle
Tapping, Norman, Sci.....	Tacoma	Turner, Virginia B, FA.....	Great Bend, Kan
Torbitt, Harry B, LA.....	Seattle	Turvey, Lucile, FA.....	Seattle
Torrence, Clarence B, LA.....	Seattle	Tuttle, Jacqueline, LA.....	Seattle
Torgerson, Stella, Grad.....	St Thomas, ND	Tuttle, Valgene, LA.....	Aberdeen
Torney, Jack, Sci.....	Seattle	Twelves, Chas M, Engr.....	Everett
Torrance, Roswell B, Engr.....	Seattle	Twohey, Claire M, LA.....	Seattle
Torrey, Mary, FA.....	Everett	Twedten, Avanelle, LA.....	Seattle
Totton, Irvia B Jr, Bus.....	Medina	Tykeson, Elsie R, FA.....	Seattle
Tougaw, Sharon O, Bus.....	Baumclaw	Tyler, Wilson, LA.....	Olympia
Toppari, Martha, Sci.....	Conneaut, Ohio		
Tower, J Allen, LA.....	Seattle		

Uber, Donald, Fsh.....	Seattle	Verhalst, Herbert J, Pharm.....	Seattle
Ucovich, Pete, Engr.....	Buckley	Verney, Louise B, Edu.....	Seattle
Ueltschi, Clara Bertha, LA.....	Vancouver	Vernon, Ida Kay, LA.....	Upland, Cal
Uhlen, Carl F Jr, Bus.....	Seattle	Vetters, William Elton, For.....	Silverdale
Ulrich, Robert A, Bus.....	Index	Victor, Don, Bus.....	Seattle
Ulsaker, Ida M, LA.....	Kindred, ND	Victoriano, Procopio, LA.....	Philippines
Ulsh, Charles A, Engr.....	Seattle	Victory, R M, LA.....	Seattle
Ulsh, Helen, FA.....	Seattle	Vidal, George B, LA.....	Deer Lodge, Mont
Ulvestad, Elsa A, Bus.....	Seattle	Viehmann, Willis C, LA.....	Seattle
Ulvestad, L A, Bus.....	Seattle	Vickers, Ross, Engr.....	Seattle
Umemoto, Susume, Bus.....	Wapato	Viereck, Girtton R, Bus.....	Bremerton
Underwood, Floyd, Law.....	Sprague	Villesvik, John, FA.....	Tacoma
Underwood, Irma V, LA.....	Portland, Ore	Vinal, Helen, LA.....	Bend, Ore
Ungar, Sydney, LA.....	Seattle	Vinal, Richard, Engr.....	Bend, Ore
Unruh, Muriel, FA.....	Seattle	Vinikow, Fannie, Bus.....	Seattle
Upton, C M, LA.....	Seattle	Vincent, E Gwendolyn, LA.....	Seattle
Upton, Charles Millar, LA.....	Seattle	Vlasch, John, Bus.....	Seattle
Upton, Rolf W, LA.....	Seattle	Voegtlin, Walter L, Fsh.....	Seattle
Urquhart, Irene, Grad.....	Seattle	Voelker, Earl, Phar.....	Rosalia
U'Ran, Chas Gordon, Bus.....	Snohomish	Vogel, Leo F, LA.....	Attalla
U'Ran, Lucile, Edu.....	Snohomish	Vogel, Floyd, Bus.....	Spokane
U'Renn, Dorothy, Jour.....	Seattle	Von Alvensleben, Margaret, LA.....	Seattle
Ursich, A M, Bus.....	Tacoma	Volland, Joseph L, Engr.....	Seattle
Usher, Harlan K, Sci.....	Wenatchee	Von Kleist, Paul, For.....	Seattle
Ustiantseff, Peter K, Engr.....	Seattle	Vorwick, Elnor K, Sci.....	Seattle
Uyematsu, Minoru, LA.....	Huwall	Vopni, Sylvia, LA.....	Seattle
		Voss, June A, LA.....	Seattle
		Vradenburgh, Neal, Sci.....	Puyallup
Valentine, Almon H, LA.....	Anacortes	Waddell, Margaret, Grad.....	Colville
Valentine, John Jr, LA.....	Seattle	Waddingham, Stanley, Bus.....	Seattle
Valentine, Lella, Sci.....	Seattle	Wade, Lela, LA.....	Seattle
Valentine, Stanley, LA.....	Seattle	Wade, William B, FA.....	Pasadena
Vallant, Edwin O, Sci.....	Spokane	Wager, Florence, LA.....	Vancouver
Van Alstyne, T J, Phar.....	Vancouver	Waggoner, Edw M, Bus.....	Los Angeles, Cal
Van Amerongen, Wm, Law.....	Seattle	Wagner, Edward K, LA.....	Bremerton
Van Amerongen, Gerard, Law.....	Seattle	Wagner, Otto W, Bus.....	Caldwell, Ida
Van Arsdale, Louis C, LA.....	Tacoma	Wagner, Robert H, Engr.....	Seattle
Van Camp, Eunice, Sci.....	Seattle	Wagner, Robert, Edu.....	Seattle
Vance, Earl C, LA.....	Seattle	Wagner, W Wallace, LA.....	Colfax
Vance, Lloyd J, Bus.....	Seattle	Wagner, William, Bus.....	Seattle
Vandercok, Esther, LA.....	Longview	Wahl, Beatrice, LA.....	Everett
Vandergriff, Clyde Wm, Bus.....	Seattle	Wahlborg, Robert, Engr.....	Seattle
Vanderpoel, Alice Sears, LA.....	Seattle	Wahlgren, N C Engr.....	Sedro Woolley
Vanderspek, Geraldine, Sci.....	Seattle	Wahlstrom, Phil, Bus.....	Seattle
Van de Walker, Dale, Bus.....	Seattle	Wailles, Ronald David, Engr.....	Eaton, Colo
Van Diest, Elery, LA.....	Yakima	Wakefield, Lowell, LA.....	Seattle
Van Deusen, Ben, Engr.....	Seattle	Wakeman, Willard, LA.....	Seattle
Van Gilder, Helen L, Sci.....	Seattle	Walberg, Hjalmar, Engr.....	Selro Woolley
VanGilder, Florence, Grad.....	Kittitas	Walbeland, Evelyn M, LA.....	Seattle
Van Horn, Robert B, Grad.....	Seattle	Walck, Fred, Engr.....	Tacoma
Van Iderstine, Dorothy, FA.....	Seattle	Waldorf, Lansing, Engr.....	Dillon, Mont
Van Landeghem, Julia M, Bus.....	Seattle	Waldrop, Allen, LA.....	Ellensburg
Van Leuven, Alice, LA.....	Seattle	Walen, H Graydon, Pharm.....	Silvana
Van Leuven, Kenneth L, LA.....	Wenatchee	Wales, Fern, Bus.....	Seattle
Van Leuven, Vernon V, LA.....	Wenatchee	Wales, Helen, LA.....	Seattle
Van Liew, Frances H, LA.....	Seattle	Wallin, Kenneth W, Engr.....	Puyallup
Van Meter, Elizabeth, LA.....	Adel, Ia	Walker, Alfred F, Bus.....	Spokane
Van Nice, Howard H, Sci.....	Portland, Ore	Walker, Alice, LA.....	Seattle
Van Patten, Theron C, LA.....	Seattle	Walker, Arthur R, LA.....	Seattle
Van Stralen, F J, LA.....	Monette	Walker, Bertha, Edu.....	Seattle
Van Tilborg, L D, Grad.....	South Colby	Walker, E Bruce, LA.....	Seattle
Van Valine, C Frederick, Fsh.....	Seattle	Walker, Cedric W, For.....	Victoria, BC
Van Vleet, Cecil S, Grad.....	Seattle	Walker, David J, LA.....	Seattle
Van Voorhis, F B, Engr.....	Seattle	Walker, Edward S, Bus.....	Tacoma
Van Boorbis, G Le Roy, Bus.....	Seattle	Walker, Elsie May, FA.....	Seattle
Van Warren, Mc F, Bus.....	Seattle	Walker, Fred, LA.....	Seattle
Van Way, George, LA.....	Vancouver	Walker, Graydon L, Pharm.....	Richmond Beach
Van Woerden, Gertrude, LA.....	Seattle	Walker, Gladys, LA.....	Richmond Beach
Van Woert, Faire, LA.....	Seattle	Walker, Jane Catherine, LA.....	Tacoma
Van Woert, Ross L, LA.....	Puyallup	Walker, Josephine, FA.....	Seattle
Vredenburg, Violet, Sci.....	Seattle	Walker, Margery, Grad.....	Shelton
Vargas, Anibal, Grad.....	Seattle	Walker, Norman Eugene, Grad.....	Seattle
Vaughan, A Elizabeth, Sci.....	Seattle	Walker, Omar A, Bus.....	Seattle
Vaughan, Myron H, Engr.....	Bellingham	Walker, Phyllis, LA.....	Cincinnati, O
Vaughan, Robert W, Engr.....	Seattle	Walker, Richard W, Engr.....	Milwood
Veale, Thomas F, Engr.....	Enumclaw	Walker, Ward J, Bus.....	Selah
Vellkanje, Stanley P, LA.....	Yakima	Walker, Wm T, Engr.....	Seattle
Venes, Thomas E, LA.....	Winlock	Wall, Harold C, Sci.....	Seattle
Vercoe, Gertrude, LA.....	Mt Vernon	Wall, Kathleen D, LA.....	Seattle
Vera Cruz, Marcos M, Sci.....	Philippines		
Verd, Paul H, Engr.....	Arlington		
Vergin, Rarden, LA.....	Seattle		

Wall, Ruth, LA.....	Seattle
Wallace, Helen C, FA.....	Seattle
Wallace, Eleanor, Sci.....	Wilbur
Wallace, James W, Engr.....	Burlington
Wallace, John H, Sci.....	Seattle
Wallace, F Markham, Fsh.....	Seattle
Wallace, Merrill, LA.....	Bremerton
Wallace, Robert C, Min.....	Seattle
Wallace, Wm D, Bus.....	Long Beach, Cal
Wallin, Helen D, LA.....	Everett
Wallingford, Edna Mae, FA.....	Seattle
Walmsley, Irene, Sci.....	Roslyn
Walrath, A M, Law.....	Seattle
Walsh, Ellen L, Grad.....	Seattle
Walsh, Inez J, Edu.....	Spokane
Walsh, Mildred, LA.....	Los Angeles, Cal
Walsh, Maude, Grad.....	Seattle
Walsh, Ruth E, LA.....	Everett
Walter, Barbara, LA.....	Seattle
Walter, Fern, LA.....	Seattle
Walter, Gertrude I, Sci.....	Seattle
Walter, Ralph, Engr.....	Seattle
Walters, Lela H, Bus.....	Seattle
Walters, Margaret C, Grad.....	Seattle
Walter, Lorretta W, LA.....	Seattle
Walters, Selma, Edu.....	Wilkeson
Waltersdorph, Henning C, Bus.....	Seattle
Walthew, Robert S, Bus.....	Seattle
Walton, Florence, FA.....	Seattle
Waltz, Margaret E, Edu.....	Seattle
Wampler, Kliah, Law.....	Seattle
Wang, Laura, LA.....	Seattle
Waples, Horace M, Bus.....	Downers Grove, Ill
Warburton, Ruth E, Edu.....	Seattle
Ward, Austin, Sci.....	Onalaska
Ward, Dorothy Lee, LA.....	Kitsap
Ward, Donna G, FA.....	Seattle
Ward, Flora, LA.....	Republic
Ward, Elizabeth, Sci.....	Cashmere
Ward, Florence, LA.....	Seattle
Ward, Henry B, LA.....	Seattle
Ward, Frederic E, Bus.....	Seattle
Ward, Margaret, FA.....	Seattle
Ward, Marguerite, FA.....	Seattle
Ward, Paul R, Bus.....	Vashon
Ward, Richard B, LA.....	Seattle
Ward, Wm W, LA.....	Hanford, Tex
Wardall, Betty Jane, LA.....	Seattle
Wardell, Cedric M, Bus.....	Seattle
Warde, Gertrude E, Edu.....	Seattle
Wardleigh, Wesley, Engr.....	Bremerton
Ware, A Barrington, Bus.....	Seattle
Ware, Mary, LA.....	Coeur d'Alene, Ida
Warford, J Keith, LA.....	Hoquiam
Wargo, John J, LA.....	Seattle
Warho, Ella A, FA.....	Aberdeen
Warner, Alice, Bus.....	Seattle
Warner, F M, Grad.....	Medical Lake
Warner, Kenneth, FA.....	Wenatchee
Warner, Kenneth, Grad.....	Tacoma
Warner, Mary, LA.....	Portland, Ore
Warner, Wilma, Sci.....	Medical Lake
Warnick, Jack, Bus.....	Tacoma
Warren, Clair, Bus.....	Wenatchee
Warren, George, FA.....	Seattle
Warren, Marjane, LA.....	Seattle
Warren, Melvin, Sci.....	Seattle
Warwick, Leslie, Engr.....	Oakesdale
Washburn, Jack, FA.....	Seattle
Washburn, Jane, FA.....	Wallace, Ida
Waskey, Robert, Sci.....	Seattle
Wasson, J Glenn, For.....	Seattle
Wasson, Harold K, Bus.....	Seattle
Watanabe, Teru M, LA.....	Seattle
Watcher, Irving Frederick, Bus.....	Leeward, Cal
Waterbury, Howard B, LA.....	Yakima
Waterworth, Jack, Phar.....	Yakima
Watkins, Clayton K, Bus.....	Seattle
Watkins, Lois A, Sci.....	Buffalo, Wyo
Watkins, Mary E, LA.....	Hoquiam
Watne, Edwin M, Grad.....	Seattle
Watson, Alice B, LA.....	Seattle
Watson, Charles H, Grad.....	Seattle
Watson, Wilbur, Sci.....	Montesano
Watson, Wilson, LA.....	Seattle
Watt, Ning, Sci.....	China
Watt, Ronald F, LA.....	Seattle
Watt, Phoebe, LA.....	Seattle
Watt, Vernon S, Engr.....	Seattle
Watts, Catharine C, LA.....	Bellingham
Watts, Mary Louise, LA.....	Seattle
Watts, Isabel, LA.....	Seattle
Wayland, C V, FA.....	Seattle
Wayland, Ruth M, LA.....	Seattle
Wayne, C Gordon, Engr.....	Seattle
Weaver, Donald, LA.....	Seattle
Weaver, Frank P, Law.....	Spokane
Weaver, Letta L, LA.....	Seattle
Weaver, Margaret, LA.....	Spokane
Webb, Jennie L, Pharm.....	Seattle
Webb, Norman R, LA.....	Havre, Mont
Webber, Alice, LA.....	Havre, Mont
Webber, Albert H, Engr.....	Odessa
Weber, Viola, Grad.....	Seattle
Weber, Emanuel M, Phar.....	Odessa
Weber, M Lucile, LA.....	Yakima
Weber, Marie E, LA.....	Seattle
Weber, R Theodore, Bus.....	Butte, Mont
Webster, Cecil T, Bus.....	Seattle
Webster, Edgarta, LA.....	Los Angeles, Cal
Webster, Lloyd T, For.....	Cresco, Iowa
Webster, Shaeler F, Bus.....	Wenatchee
Wedell, Glenn E, Bus.....	Seattle
Weed, Luell A, Sci.....	Seattle
Wegner, A Marie, Bus.....	Bothell
Weideman, Robert R, FA.....	Chevelah
Weigel, John C, LA.....	Yakima
Welmer, Claude N, LA.....	Wenatchee
Weingartner, Richard A, Bus.....	Seattle
Weinstein, Jerome, LA.....	Tacoma
Weinzirl, Louis, Sci.....	Seattle
Weir, John M, Grad.....	Seattle
Weir, Louise C, LA.....	Seattle
Weisberger, Helen, LA.....	Yakima
Weisberg, Hildgarde, FA.....	Missoula, Mont
Weiser, Roland, FA.....	Gardena, Cal
Weisfeld, Richard S, LA.....	Seattle
Weiss, Carlyle, Engr.....	Seattle
Weiss, Elizabeth, LA.....	Seattle
Weiss, Fred A, Bus.....	Seattle
Weiss, Pauline, Sci.....	Vashon Island
Welander, Theo L, LA.....	Hoquiam
Welborn, Elizabeth, LA.....	Seattle
Welch, Donald, Bus.....	Tacoma
Welch, C Douglass, LA.....	Tacoma
Welch, Elizabeth, FA.....	Tacoma
Weld, Theodore B, Bus.....	Rolling Bay
Welkanov, Alex G, Engr.....	Russia
Welkanov, Antonina, LA.....	Russia
Welker, William J, Engr.....	Seattle
Wellington, Gordon K, Bus.....	Seattle
Wellman, Levi Howard, Grad.....	Seattle
Wellman, Thora L, LA.....	Seattle
Wellman, Victor E, Grad.....	Seattle
Wells, Marjorie E, Edu.....	Seattle
Wells, Max L, Bus.....	Seattle
Wells, Mildred J, LA.....	Seattle
Wells, Rennie, Fah.....	Helena, Mont
Wend, Edmund C, Pharm.....	Castle, Rock
Wenner, Blanche H, LA.....	Seattle
Wende, Chas T, Engr.....	Tacoma
Wende, Gladys, LA.....	Tacoma
Wendler, Florence M, Edu.....	Cheney
Wentworth, Henry S, For.....	Seattle
Wentworth, Rosamond, LA.....	Seattle
Werby, Helena J, Grad.....	Seattle
Wernett, Myrtle, FA.....	Pasco
Wertgen, Franz, Grad.....	Seattle
Wesner, Elenora M, Grad.....	Seattle
West, Alice, FA.....	Kent
West, Cecil, LA.....	Vancouver, BC
West, Carl M, FA.....	Tacoma

West, Lucile, Sci.....	Seattle	Wilcox, Frances, LA.....	Vale, Ore
West, Orville C, Fsh.....	Seattle	Wilcox, James F, Engr.....	Monroe
Westberg, Fred, Bus.....	Seattle	Wilcox, Leonard M, LA.....	Gold Bar
Wester, Alyce Sara, LA.....	Index	Wildberger, Helen, FA.....	Seattle
Wester, Herbert, Auditor.....	Seattle	Wilde, Roy F, For.....	Seattle
Wester, Virginia, LA.....	Seattle	Wilder, Norman B, Bus.....	Chinacum
Westfall, Marjorie E, Sci.....	Seattle	Wiles, Donald, LA.....	Seattle
Westerveller, Lawrence, LA.....	Yakima	Wiley, Alice M, LA.....	Seattle
Westgard, Blake, Engr.....	Great Falls, Mont	Wiley, Jessie, Sci.....	Van Nuys, Cal
Westin, Theodore, Bus.....	Arlington	Wilfong, Paul, Bus.....	Issaquah
Westling, Edith, Sci.....	Tacoma	Wilhelm, George R, FA.....	Eugene, Ore
Weston, Marguerite L, FA.....	Seattle	Wilhelm, Margaret, Sci.....	Seattle
Weston, Mabel E, Sci.....	Seattle	Wilkie, Lois, LA.....	Seattle
Westover, Egbert, Min.....	Seattle	Wilkinson, Mortimer R, Engr.....	Portland, Ore
Westlund, Thelma, LA.....	Chehalis	Willard, Alcen, Jour.....	Ventura, Cal
Westlund, Thelma, LA.....	Chehalis	Willard, H William, Bus.....	Seattle
Wetherell, Russell, LA.....	Seattle	Willer, Sonia June, LA.....	Seattle
Weaver, Violet, FA.....	Seattle	Williams, J Aloysius, Sci.....	Seattle
Weyer, Margaret M, FA.....	Tacoma	Williams, Barbara B, FA.....	Yakima
Weythman, Ruth, Grad.....	Monitor	Williams, Bettie Ann, LA.....	Seattle
Weymouth, A Allen, Grad.....	Seattle	Williams, Catherine, LA.....	Chinook
Whalley, Agnes, LA.....	Pateros	Williams, Charles, Bus.....	Burton
Whalley, Emily L, FA.....	Seattle	Williams, Clarke, LA.....	Seattle
Whalley, Theodosia, LA.....	Pateros	Williams, De Witt, LA.....	Bellingham
Whalen, Richard T, Bus.....	Seattle	Williams, Edythe R, FA.....	Seattle
Wheaton, Edgar, Sci.....	Bellingham	Williams, Eugene, Grad.....	Orin
Wheeler, Claire, LA.....	Seattle	Williams, Eva, FA.....	Seattle
Wheeler, Chetta M, LA.....	Smithfield, Ohio	Williams, Forrest, Bus.....	Seattle
Wheeler, James H Jr, Pharm.....	Wrangell, Alaska	Williams, Fay E, FA.....	Eatonville
Wheeler, Marion L, LA.....	Downers Grove, Ill	Williams, Floyd F, Bus.....	Kirkland
Wheeler, Wallace B, LA.....	Seattle	Williams, Gerald, LA.....	Seattle
Wheelock, Mary E, FA.....	Seattle	Williams, Gwilyn M, LA.....	Everett
Whicker, Harold W, Grad.....	Seattle	Williams, G Harold, Engr.....	Seattle
Whipple, Elden C, LA.....	Bellingham	Williams, Helen G, FA.....	The Dalles, Ore
Whitcomb, Rollo R, LA.....	Bellingham	Williams, Helen V, FA.....	Seattle
White, Eugenia, LA.....	Seattle	Williams, Homer A, For.....	Austin, Tex
White, Harry, Bus.....	Everett	Williams, Irvine C, Engr.....	Bremerton
White, James A, Engr.....	Mt Vernon	Williams, James E, Bus.....	Seattle
White, Jessie M, Grad.....	Seattle	Williams, James D, Engr.....	Spokane
White, Lorna, FA.....	Seattle	Williams, Jessie A, LA.....	Kalispell, Mont
White, Mabel Nell, LA.....	Everett	Williams, John A, Bus.....	Auburn
White, Marguerite, LA.....	Seattle	Williams, Kenneth I, Sci.....	Seattle
White, Paul A, LA.....	Snoqualmie Falls	Williams, Kermit L, Engr.....	Seattle
White, Robert S, LA.....	Australia	Williams, Lee G, LA.....	New York, NY
White, Ronald C, Bus.....	Seattle	Williams, Leola L, FA.....	Milton, Ore
White, Sherman A, LA.....	Middlefield, Cal	Williams, Lois Chapin, FA.....	Seattle
White, Vanmeter, For.....	Seattle	Williams, Lucile, LA.....	Ogden, Utah
White, W Wallace, Engr.....	Seattle	Williams, Marjorie, Sci.....	Seattle
White, Wayne E, Sci.....	Spokane	Williams, J Ralph, Bus.....	Tacoma
Whitt, Wesley, LA.....	Hoquiam	Williams, Randall S, LA.....	Tacoma
White, Marjorie Knouse, FA.....	Seattle	Williams, Ray E, FA.....	Redlands, Cal
Whitford, Sarah L, Edu.....	Seattle	Williams, Ruth H, Grad.....	Seattle
Whitelaw, John W, LA.....	Seattle	Williams, Weldon, Grad.....	Seattle
Whiteleather, Hazel G, LA.....	Columbia City, Ind	Williamson, D B, Engr.....	Wilkinsburg, Pa
Whitham, Louise Dodge, LA.....	Seattle	Williams, William Arthur, Phar.....	Everett
Whiting, S Keith, Sci.....	Seattle	Williamson, Jas W, Law.....	Seattle
Whitlock, Victor J, Bus.....	St Paul, Minn	Williamson, Marie, FA.....	Seattle
Whitman, Jean Elizabeth, Libr.....	Windsor, NS	Williamson, Myrtle, FA.....	Seattle
Whitnell, Helen M, Edu.....	Spokane	Willigar, Mertie, Sci.....	Puyallup
Whitner, Chester L, LA.....	Seattle	Wills, Grace, Edu.....	Mayview
Whitney, Gordon L, FA.....	Seattle	Wills, Katherine M, LA.....	Goldendale
Whitney, Callista, Sci.....	Tacoma	Wills, Robert J, Law.....	Goldendale
Whitsitt, Craig G, Grad.....	Seattle	Willix, Douglas, LA.....	Seattle
Whittall, Jack D, LA.....	Olympia	Willman, Richard C, Engr.....	Seattle
Whittlesey, W C, Engr.....	Seattle	Willson, Edward A, Engr.....	Everett
Whitt, Anna C, LA.....	Seattle	Willson, Gerald Paul, Bus.....	Everett
Wickham, Lola, Sci.....	Seattle	Willson, Henry J, Sci.....	Everett
Wicklund, Grace, Edu.....	Seattle	Willmot, Janice, FA.....	Seattle
Widman, N T, Engr.....	Seattle	Wilson, Alice, Sci.....	Selah
Widmann, Rosemary, Edu.....	Seattle	Wilson, Balford L, Engr.....	Bremerton
Wiegman, Raymond J, Fsh.....	Seattle	Wilson, Clotilde, LA.....	Seattle
Wiel, Lloyd L, LA.....	White Bluffs	Wilson, Earl R, LA.....	Burlington
Wiel, Kurt, For.....	Seattle	Wilson, Edmund G, Engr.....	Seattle
Wiesenbach, Ward, Grad.....	Richland	Wilson, Elda R, LA.....	Seattle
Wigellus, Frank E, Engr.....	Seattle	Wilson, Evelyn M, FA.....	Port Angeles
Wiggins, Julia J, FA.....	Cooper, Ia	Wilson, Frank A, Grad.....	Portland, Ore
Wightman, Lucille, LA.....	Seattle	Wilson, Frank B, LA.....	Seattle
Wike, Dorothy E, FA.....	Seattle	Wilson, Helen G, FA.....	Seattle
Wike, Mary, LA.....	Seattle	Wilson, Henry O, Min.....	Minneapolis, Minn
Wiksten, Chester F, Bca.....	Puyallup	Wilson, Jean E, LA.....	Seattle
Wilcox, E R, Engr.....	Seattle	Wilson, Lavelle, Bus.....	Walla Walla

Wilson, Lewis O, LA.....	Seattle	Woodin, Helen Elizabeth, FA.....	Seattle
Wilson, Melvin E, Fsh.....	Seattle	Woodman, Elizabeth, LA.....	Seattle
Wilson, Millicent R, LA.....	Seattle	Woodman, Josephine, Sci.....	Seattle
Wilson, Olene, LA.....	Blackfoot, Ida	Woodmansee, Jack T, FA.....	Seattle
Wilson, Robert D, Bus.....	Prescott, Ariz	Woodrow, Judith, LA.....	Seattle
Wilson, Roy C, Phar.....	Vancouver	Woodruff, Elliott H, Engr.....	Seattle
Wilson, Virginia, LA.....	Portland, Ore	Woodruff, J K, Bus.....	Seattle
Wilson, William Ed, LA.....	Seattle	Woods, Harold L, LA.....	Olympia
Wilson, Walter W, Bus.....	Seattle	Woodward, M S, Bus.....	Tacoma
Wilson, Warner M, LA.....	Cupertino, Cal	Woodward, C Warren, LA.....	Seattle
Wilson, William G, For.....	Bellingham	Woodworth, Adelaide, LA.....	Spokane
Wilson, Whitney S, For.....	Seattle	Woodworth, Alice A, LA.....	Concrete
Wilson, William W, Bus.....	Seattle	Woodworth, George S, Bus.....	Seattle
Wilson, William, Grad.....	Seattle	Woodworth, John W, For.....	Concrete
Wiltse, Kenneth T, Sci.....	Seattle	Woodworth, Ruth E, Sci.....	Seattle
Winans, Dorothy, FA.....	Seattle	Woody, Dorothy D, Edu.....	Tacoma
Windhusen, Anna E, Grad.....	Medical Lake	Woody, Harriet M, Jour.....	Okanogan
Windley, J Kenneth, Engr.....	Seattle	Woodyard, Harold, Engr.....	Yakima
Winders, Anabel H, LA.....	Seattle	Woodyard, John, Engr.....	Seattle
Winegar, Roger M, LA.....	Seattle	Woolpert, Dorothea, LA.....	Wenatchee
Winfree, Theodosia, LA.....	Seattle	Worcester, Dorothy B, Sci.....	Seattle
Wing, Ivan, LA.....	Seattle	Worcester, Mary Virginia, FA.....	Seattle
Winkelman, Allen N, Bus.....	Yakima	Worden, Travis J, FA.....	Raymond
Winklesky, Lyle F, LA.....	Lowell	Work, Ardelta B, LA.....	Seattle
Winkle, Helen, LA.....	Seattle	Worley, Les, Bus.....	Bothell
Winn, Herbert, LA.....	Seattle	Worman, Eugenia A, Edu.....	Seattle
Winograd, Simon, Grad.....	Seattle	Woron, Ben, Phar.....	Seattle
Winslow, Arthur D, For.....	Wilmette, Ill	Worstell, Fern, Edu.....	Seattle
Winsted, Ruth, Sci.....	Honolulu	Worth, Frank LeRoy, Bus.....	Seattle
Winston, Alex, LA.....	Seattle	Wortham, R A, LA.....	Seattle
Winston, Pat, Law.....	Seattle	Worthington, Hugh, LA.....	Spokane
Winter, Wm N, LA.....	Medina	Worthington, John C, Bus.....	Quilcene
Wirth, Henry E, Sci.....	Bellingham	Worthington, Kenneth T, Bus.....	Quilcene
Wisner, Harold J, Bus.....	Vancouver	Wright, Betty M, FA.....	Husum
Wissig, Mark, LA.....	Los Angeles, Cal	Wright, Calvert C, Engr.....	Seattle
Wisner, Frances Lee, FA.....	Mabton	Wright, Charles M, Fsh.....	Tacoma
Wise, Prentice L, Edu.....	Seattle	Wright, Elizabeth, LA.....	Seattle
Witsenberg, Florence, Law.....	Tacoma	Wright, Frances E, LA.....	Pasadena, Cal
Witberby, Lester, Fsh.....	Ferndale	Wright, Frank, LA.....	Seattle
Wittrock, Gustav L, Sci.....	Chicago, Ill	Wright, J Gordon, LA.....	Cottage, Grove, Ore
Wocelka, Glenn F, Bus.....	Seattle	Wright, Grace M, FA.....	Seattle
Woelfel, Paul G, LA.....	Chicago, Ill	Wright, Harry J, LA.....	Seattle
Wohlmacher, William E, FA.....	Tacoma	Wright, Kathleen, Sci.....	Grapeview
Woelfel, Lucy M, LA.....	Seattle	Wright, Kermit, Engr.....	Seattle
Woempner, Dorothy E, FA.....	Seattle	Wright, Lucille, Sci.....	Seattle
Wohlmacher, Clayton, Bus.....	Tacoma	Wright, Mary F, FA.....	Pocantello, Ida
Wolaver, Viola, Bus.....	Seattle	Wright, Miriam, Edu.....	Tacoma
Wolf, Hal B, Jour.....	Seattle	Wright, Monica P, Sci.....	Bellevue, Ida
Wolf, Marjorie, FA.....	Seattle	Wright, Preston A, FA.....	Bellingham
Wolf, William M, LA.....	Vancouver	Wright, Paul W, Edu.....	Seattle
Wolfe, George H, LA.....	Cumberland, Md	Wright, Quintin Bertram, Grad.....	Seattle
Wolfe, Harry K, FA.....	Seattle	Wright, Reed L, LA.....	Seattle
Wolfe, John J, LA.....	Seattle	Wright, Robert, Fsh.....	Husum
Wolfe, Norman E, Bus.....	Monroe	Wright, Russell L, Jour.....	Seattle
Wolf, Lois, LA.....	Boulder, Colo	Wright, William W, FA.....	Seattle
Wolf, Stanley D, Phar.....	Seattle	Wright, Wm T, Engr.....	Seattle
Wolfe, Dael L, Grad.....	Bremerton	Wu, Chao Gee, Engr.....	China
Wolfe, Elvid E, Bus.....	Bremerton	Wunderlich, Vera M, LA.....	St Maries, Ida
Wolgemuth, J Phillip, LA.....	Seattle	Wunderlich, June, LA.....	St Maries, Ida
Wolz, Elsie A, LA.....	Seattle	Wurdeman, Audrey May, LA.....	Seattle
Wonderly, Lucile, LA.....	Centralia	Wuthenow, Dorothy, LA.....	Seattle
Wong, S Y, Bus.....	China	Wuthenow, Lee, LA.....	Seattle
Wong, Quen Y, Engr.....	China	Wyckoff, Luther J, FA.....	Seattle
Woo, Henry Hal, Bus.....	Seattle	Wyckoff, John, LA.....	Seattle
Wood, Edna M, LA.....	Payette, Ida	Wyde, Marjorie H, LA.....	Seattle
Wood, Frances M, Engr.....	Lynden	Wyman, Bernice L, Edu.....	Seattle
Wood, Frank, FA.....	Seattle	Wyman, Hortense, Sci.....	Seattle
Wood, Hazel F, Grad.....	Seattle	Wyman, K S, Engr.....	Seattle
Wood, Howard D, For.....	Wilmington, Del	Wynyarden, John L, Edu.....	Granger
Wood, Janet M, LA.....	Seattle	Wysong, Noel, Grad.....	Hutchinson
Wood, Lauralinda, LA.....	Vancouver, BC		
Wood, Lewis C, Min.....	Meadowdale	Xavier, John Ulrik, Grad.....	Parkland
Wood, L W, Bus.....	Seattle		
Wood, Robert E, Bus.....	Seattle	Yabroff, Elias, Engr.....	China
Woods, Dorothy, LA.....	Seattle	Yabuki, Frank T, Engr.....	Bellevue
Woodard, Hillera Cecil, Bus.....	Sandpoint, Ida	Yasumura, George, FA.....	Seattle
Woodbridge, Mary C, LA.....	Seattle	Yates, Beatrice, LA.....	Seattle
Wooden, Retta, FA.....	Kent	Yates, Helen, FA.....	Seattle
Woodford, James, LA.....	Seattle	Yates, Stephen T, LA.....	Seattle
Woodford, Kenneth G, LA.....	Seattle	Yeck, Lois E, Edu.....	Boise, Ida
Woodin, Diadama, Sci.....	Seattle	Yeend, Esther, Grad.....	Walla Walla

Yen, Jung Hse, LA.....	Seattle	Ytterdal, Harold, Engr.....	Seattle
Yeomans, Arthur J, Grad.....	Seattle	Yun, Chao Kun, Bus.....	Canton, China
York, Anne M, LA.....	Tacoma	Zachary, Eva, Sci.....	Seattle
York, Harold H, Phar.....	Seattle	Zamuco, Gregorio, Grad.....	Philippines
York, Lynn, For.....	Seattle	Zaniewiez, Rudolf, Engr.....	Seattle
Yoshimura, Hesuke, Engr.....	Seattle	Zane, S L, Law.....	Seattle
Yoshioka, Hideo, Engr.....	Seattle	Zaremba, Carl A, Bus.....	Clipper
Yost, Allan D, Bus.....	Edmonds	Zeeb, Kathryn A, Sci.....	Seattle
Youlden, Edward, Bus.....	Butte, Mont	Zeeuw, Anna, Sci.....	Kent
Youell, John, LA.....	Seattle	Zeh, George J, Engr.....	Seattle
Young, Arthur B, Grad.....	Seattle	Zelasko, Walter J, For.....	Aberdeen
Young, Albert E, Fsh.....	Seattle	Zell, Milton, LA.....	Portland, Ore
Young, Catherine C, FA.....	Caldwell	Zorlin, Ramona V, LA.....	Spokane
Young, Donald, Bus.....	Honolulu	Ziebarth, Emmett A, Bus.....	Seattle
Young, Helen C, LA.....	Seattle	Ziebarth, Robert J, Fsh.....	Seattle
Young, Harriett, FA.....	Seattle	Ziel, Helen M, FA.....	Raymond
Young, John W, Bus.....	Cawken City, Kan	Zilliox, George, Engr.....	Enumclaw
Young, Lucy, LA.....	Tacoma	Zillman, Lawrence J, LA.....	Seattle
Young, Lauonne, Sci.....	Seattle	Zillman, Lorenc, LA.....	Seattle
Young, Lois, Sci.....	Seattle	Zimmerly, M Ruth, LA.....	Ridgefield
Young, Reinsel C, Bus.....	Washington, DC	Zimmerman, Frances, LA.....	Seattle
Young, Ruth M, Bus.....	Seattle	Zindorf, Geraldine, LA.....	Seattle
Young, Wilbur F, Phar.....	Centralia	Zioncheck, Marion A, Law.....	Seattle
Young, William H, FA.....	Yakima	Zobrist, Walter, LA.....	Granite Falls
Youngquist, Emma, Sci.....	Mt Vernon	Zoet, August G, Sci.....	Lynden
Younggrens, Evelyn, FA.....	Seattle	Zoellner, Herta, Sci.....	Walla Walla
Yowell, Robert, Engr.....	Seattle	Zug, Frances Ann, LA.....	Seattle

SUMMER QUARTER STUDENTS—1927

Anbu, Dorothy, LA.....	Everett	Andrews, Harriett, Sci.....	Seattle
Abel, Dorothy L, LA.....	Montesano	Andrews, Ida, FA.....	Salem, Ore
Abel, George F, Law.....	Montesano	Anfin, Caroline, LA.....	Seattle
Ablan, Federico, LA.....	Philippines	Angholm, Emma, Educ.....	Turlock, Cal
Abrams, Evelyn, Sci.....	Seattle	Anglea, R H, Bus.....	Seattle
Adair, Prudence, LA.....	Seattle	Ankele, Felice, Grad.....	Seattle
Adams, J Gordon, Sci.....	Shelton	Anselm, David, Grad.....	Seattle
Adams, Margaret G, LA.....	Seattle	Appleton, C F, Grad.....	Seattle
Adams, Ruth Marjorie, LA.....	Cheney	Araj, Clarence, Grad.....	Seattle
Adams, Sylvia, LA.....	Seattle	Archer, Helen, Grad.....	Seattle
Adams, Terrel, LA.....	China	Arend, Harry, Law.....	Spokane
Adamson, Anna Robinson, LA.....	Seattle	Armstrong, Clifford, Bus.....	Seattle
Adkins, Helen Ernestine, Grad.....	Seattle	Armstrong, Harriet, Sci.....	Tacoma
Adler, Ruth Alberta, LA.....	Portland, Ore	Armstrong, LA.....	Udby, Mich
Agathem, John, LA.....	Eagle, Wis	Armstrong, William, Bus.....	Havre, Mont
Agbayani, Pedro, LA.....	Philippines	Arnell, Dorothy, LA.....	Seattle
Agee, Dora Leola, Grad.....	Seattle	Arnold, Evert, Law.....	Seattle
Ahlberg, Violet, Educ.....	Tacoma	Arnold, Everett O, Grad.....	Attalla
Akin, Cecilia, Grad.....	Seattle	Arnold, Vivian, Educ.....	Byron Center, Mich
Akin, Margaret, Grad.....	Seattle	Asher, Marion, LA.....	Clarksville, Ia
Akre, Lulu Marie, LA.....	Glasgow, Mont	Ashton, Philip, Grad.....	Seattle
Alber, Emma Jean, BA.....	Seattle	Aske, Agnes, Educ.....	Spokane
Albin, Vera, LA.....	Portland, Ore	Aspend, Helen, LA.....	Colville
Albright, Ella, Sci.....	Seattle	Atkinson, Dorothy, Grad.....	Spokane
Alexander, Bess Marie, LA.....	Bellingham	Attebery, Hester, LA.....	Seattle
Alexander, Mrs Merie, Educ.....	Oil Hill, Kan	Attebery, Uri, Educ.....	Elk
Alinder, Elsie Kathryn, Grad.....	Seattle	Atwood, Mnc, FA.....	Seattle
Allanson, Ethyl, LA.....	Sandpoint, Ida	Aubert, Mrs Catherine, FA.....	Hoquiam
Allasina, Tony, Educ.....	Wilkeson	Ault, Marguerite, FA.....	Honolulu, Hawaii
Allen, Edith Helen, LA.....	Seattle	Aurland, Margaret, Grad.....	Minot, ND
Allen, Eunice, Educ.....	Fallon, Nev	Austine, George, Grad.....	Seattle
Allen, Fae, LA.....	Seattle	Ayers, Ethel, LA.....	Olympia
Allen, John Henry, FA.....	Billings, Mont		
Allen, Ralph, LA.....	Ottawa, Kan	Babbitt, Ardsley, Grad.....	Seattle
Allen, Ruth, Educ.....	Nampa, Ida	Babcock, Edna, LA.....	Seattle
Allen, Stanley, LA.....	Seattle	Bache, Hazel, LA.....	Seattle
Allen, Zella, Educ.....	Seattle	Bachman, Amelia, Grad.....	Seattle
Allmain, Helen, Educ.....	Auburn	Baden, Alvina, LA.....	Spangle
Almen, Ansgar, LA.....	Balaton, Minn	Baea, Engla, Grad.....	Seattle
Almen, Mrs Isabelle, FA.....	Balaton, Minn	Bailey, Katherine, LA.....	Seattle
Almqvist, Eddie, LA.....	Seattle	Bailey, Lawrence, LA.....	Seattle
Altman, Luther, Grad.....	Seattle	Baird, Edwinna, LA.....	Spokane
Alver, Viola, LA.....	Streeter, ND	Baird, Thelma, Educ.....	Tacoma
Alvis, Katherine, Educ.....	Yakima	Baisinger, Heber, LA.....	McKenna
Alward, Bert, Grad.....	Montgomery, W Va	Baker, Carl, Grad.....	Seattle
Ames, Anita, LA.....	Seattle	Baker, Catherine, FA.....	Seattle
Amesbury, Beatrice, Sci.....	Caldwell, Ida	Baker, Dorothy, Educ.....	Seattle
Amundson, Lavina, Grad.....	Battineau, ND	Baker, Edna, LA.....	Walla Walla
Amundsen, E M, LA.....	Seattle	Baker, Gilbert, Bus.....	Puyallup
Andersen, Agnes, Educ.....	Seattle	Baker, Harold, Bus.....	Puyallup
Andersen, Florence, LA.....	Sycamore, Ill	Baker, Isabel, Educ.....	Seattle
Andersgaard, Amber, Sci.....	Comstock, Minn	Baker, Lee, LA.....	Seattle
Anderson, Alma, Grad.....	Everett	Baker, Louisa, LA.....	Seattle
Anderson, Anna, LA.....	Kent	Baker, Pearl, Grad.....	Yakima
Anderson, Anton, Law.....	Creston	Baker, Willard, Grad.....	Seattle
Anderson, Arnold, Sci.....	Kettle Falls	Baker, William, LA.....	Port Morgan, Colo
Anderson, Carletta, Sci.....	Seattle	Baldauf, Cora, Sci.....	Indianapolis, Ind
Anderson, Eleanor, LA.....	Seattle	Baldwin, Ella, LA.....	Spokane
Anderson, Elizabeth, LA.....	Seattle	Baldwin, Maynard, Grad.....	Portland, Ore
Anderson, M Elizabeth, LA.....	Ashford	Blady, Ethel, LA.....	Spirit Lake, Ia
Anderson, Elmer, LA.....	Whitewater	Blae, Genevieve, Grad.....	Seattle
Anderson, C Ermont, LA.....	Seattle	Ballaine, Wesley, LA.....	Seattle
Anderson, Esculene, LA.....	Seattle	Ballari, Carmen, Sci.....	Logan, Utah
Anderson, Fred, Grad.....	San Francisco, Cal	Bancroft, C A, Educ.....	Olympia
Anderson, Georgia, LA.....	Seattle	Banks, William, Grad.....	Yakima
Anderson, Hazel, LA.....	Seattle	Barber, Catherine, Educ.....	Chinook, Mont
Anderson, Hazel M, LA.....	Roy	Barber, Clarence, Bus.....	Seattle
Anderson, Helen, Grad.....	Mabana	Barber, Deillah, Educ.....	Wenatchee
Anderson, Katharine, LA.....	Ashford	Bardon, Mary Louise, Educ.....	Kalispell, Mont
Anderson, Katharine E, LA.....	Seattle	Bardon, Peter, LA.....	Seattle
Anderson, Larz, LA.....	Seattle	Bardwell, Ora, Educ.....	Salt Lake City, Utah
Anderson, Muriel, Grad.....	Spokane	Barker, Dorothy, LA.....	Vancouver, BC
Anderson, Odln, LA.....	Seattle	Barker, Mrs Edna, FA.....	Seattle
Anderson, Olga, Educ.....	Woodinville	Barker, Gertrude, Educ.....	Bellingham
Anderson, Olca M, Grad.....	Seattle	Barker, Henry, LA.....	Ogden, Utah
Anderson, Grad.....	Coupeville	Barker, Ivy, Grad.....	Denver, Colo
Anderson, Ruth Agda, BA.....	Seattle	Barker, Robert, Engr.....	Seattle
Anderson, Theresa, LA.....	Yakima	Barlogi, Marguerite, Grad.....	Seattle
Andonlan, Mhtran, BA.....	Olympia	Barlow, Marie, Grad.....	Issaquah
Andrew, Winona, BA.....	Denver, Colo		

Barnes, Jane, Grad.....	Tacoma
Barney, Adelbert, Educ.....	Seattle
Barr, Eric, LA.....	Seattle
Barr, Jean, Educ.....	Bellingham
Barras, George, FA.....	Boise, Ida
Barrett, Frederick, LA.....	Seattle
Barrett, Ray, Grad.....	Glendive, Mont
Bartel, Anue, LA.....	Seattle
Bartine, Wesley, LA.....	Seattle
Bartlett, Hazel, LA.....	Spokane
Bartley, Leland, LA.....	Zellar
Barton, Ansel, Educ.....	Spokane
Barton, Florence, Educ.....	Kallispell, Mont
Bass, John, Bus.....	Seattle
Bassi, Agapito, LA.....	Philippines
Bates, J W, Sci.....	Seattle
Bauer, Margaret, Grad.....	Boise, Ida
Baughman, Mabel, LA.....	Aberdeen
Baunsgard, Lee, Engr.....	Seattle
Bayly, Esther, LA.....	Monroe
Bench, Nellie, LA.....	Seattle
Beal, Maud, Grad.....	Tacoma
Bean, Minnie, Educ.....	Seattle
Beardemph, Lydia, LA.....	Tacoma
Beasley, John, Bus.....	Idaho Falls, Ida
Beaughen, Walter, Educ.....	Spanglo
Becher, LaRoza, Educ.....	Everett
Becker, Charles, Educ.....	Olympia
Beckmann, Perry, Engr.....	Seattle
Beckwith, Frances, LA.....	Seattle
Beckwar, Julia, FA.....	Eastman
Beebe, June, Grad.....	Edmonds
Beegle, Burton, Grad.....	Seattle
Beltler, Elizabeth, Educ.....	Berne, Ind
Belcher, Thelma, LA.....	Seattle
Bell, Alex, LA.....	Spokane
Bell, Elizabeth, LA.....	Yakima
Bell, Ethel, LA.....	Seattle
Bell, Mabel, LA.....	Seattle
Bell, Mildred, Grad.....	Yacolt
Bell, Minnie, LA.....	Seattle
Bell, Otis, Educ.....	Idaho Falls, Ida
Bendzak, Elizabeth, Bus.....	Roslyn
Benge, Gladys, LA.....	Heppner, Ore
Benham, Merton, LA.....	Seattle
Bennett, Lee, LA.....	Hawkinsville, Ga
Bennett, Evelyn, LA.....	Forest Grove, Ore
Bennett, George, LA.....	Seattle
Bennett, Mabel, Educ.....	Seattle
Bennett, Rose Mary, Grad.....	Seattle
Benson, Ethel, Bus.....	Tacoma
Benson, Hilda, FA.....	Butte, Mont
Benson, William, Educ.....	Bellingham
Benthlen, Vesta, Educ.....	Mt Vernon
Berg, Anna, Educ.....	Dayon, ND
Berg, Lena, LA.....	Breckenridge, Minn
Berge, Rhoda, Grad.....	Hutchinson, Minn
Berling, Marlon, FA.....	Port Orchard
Berman, Rae, LA.....	Cincinnati, Ohio
Berne, Agnes, Educ.....	Seattle
Berryman, Carl, Grad.....	Burley, Ida
Berto, Merlin, Educ.....	Bothell
Bibb, Thomas, Grad.....	Seattle
Biddle, Mildred, Sci.....	Allyn
Bieber, Warren, LA.....	Yakima
Biggs, Catherine, Grad.....	Seattle
Bihler, Mary, LA.....	Seattle
Bingham, Blanche, Grad.....	Duvall
Binnings, Margaret, Sci.....	Seattle
Bishop, Edwin, Bus.....	Seattle
Bitter, Esther, Educ.....	Spokane
Bixby, Raymond, LA.....	Freewater, Ore
Black, Charles, Grad.....	Sutherland, Ore
Black, Wm G, Educ.....	New Westminster, BC
Blade, Frank, Law.....	Seattle
Blacknell, Lawrence, FA.....	Seattle
Blair, Lynette, LA.....	Deer Lodge, Mont
Blair, Mary, LA.....	Seattle
Blair, Sara, Sci.....	Seattle
Blanchard, Fred, Grad.....	Skagway, Alas
Blanchard, Ida, Educ.....	Seattle
Blankenship, William, Grad.....	Walla Walla
Blauert, Paul, LA.....	Spanglo
Bleakney, Catherine, Sci.....	Walla Walla
Bliss, Jeannette, Grad.....	Seattle
Bloom, Edward, Educ.....	Spokane
Bloom, Elizabeth, Educ.....	Pendleton, Ore
Blosser, Stella, Educ.....	Snohomish
Bluett, Charles, Grad.....	Eugene, Ore
Bluett, Margaret, Grad.....	Eugene, Ore
Blugerman, Leonide, Engr.....	Moscow, Russia
Boeing, Lois, LA.....	Seattle
Boggs, Thelma, Grad.....	Seattle
Bogstad, Ruth, LA.....	Eugene, Ore
Bohanon, Lawrence, Educ.....	Seattle
Bohlander, Lillian, Educ.....	New York City
Bohn, Joseph, Bus.....	Seattle
Boling, Edna, Educ.....	Elma
Bollen, Marion, Educ.....	McMinnville, Ore
Bollinger, Mary, Sci.....	Fruitland, Ida
Bolman, James, Grad.....	Seattle
Bond, Rowena, Grad.....	Seattle
Bonnett, Robert, Grad.....	Seattle
Boock, Babette, Educ.....	Seattle
Booth, Myrna, Grad.....	Missoula, Mont
Bouden, Lillian, FA.....	Tacoma
Bourdy, Milburn, Grad.....	Seattle
Bourland, Minnie, LA.....	Shenandoah, Ia
Bourns, Frand, Sci.....	Seattle
Bousha, Jean, Sci.....	Portland, Ore
Boutelle, Virginia, Grad.....	Seattle
Bowen, Alice, Educ.....	Seattle
Bowen, Rita, Educ.....	Edmonds
Bower, Marie, FA.....	Helena, Mont
Bowman, Edna, Grad.....	Everett
Bowman, Marie, LA.....	Butte, Mont
Bown, Fredick, Grad.....	Tacoma
Brachvogel, Dick, Sci.....	Seattle
Brady, Bryant, Law.....	Seattle
Brady, Calvin, Bus.....	Seattle
Bragdon, Wynne, Grad.....	Seattle
Brakel, Louise, Sci.....	Seattle
Bramhall, Mae, FA.....	Spokane
Brandmeier, Wilhelmina, LA.....	Seattle
Brandt, George, Bus.....	Seattle
Brandt, Mary, FA.....	Seattle
Bransford, Thomas, LA.....	Portland, Ore
Bratt, Byron, Bus.....	Mercer Island
Bratton, Robert, Grad.....	Seattle
Bray, Julia, LA.....	Sacramento, Cal
Bray, Mary, Bus.....	Seattle
Breakey, Forrest, Grad.....	Snohomish
Breakey, Henrietta, FA.....	Bellingham
Breen, Agnes, LA.....	Tacoma
Breen, Margaret, Educ.....	Seattle
Breier, Belle, Educ.....	Kaukauna, Wis
Bremner, Ray, Educ.....	Bellingham
Bresnahan, Myrtle, Educ.....	Seattle
Brethorst, Marguerite, Grad.....	Seattle
Brewer, Florence, Grad.....	Olympia
Brickert, Josephine, Educ.....	Centralia
Brier, Grace, LA.....	Seattle
Brier, Howard, Grad.....	Seattle
Brim, Armand, Educ.....	Spokane
Brink, Elizabeth, LA.....	Portland, Ore
Brinsmead, Lillian, Educ.....	Fort Townsend
Brisley, Mabel, Educ.....	Connie Bluffs, Ia
Brock, Villa, Educ.....	Reardan
Brockman, Edna, FA.....	Ancortes
Brode, Stanley, Grad.....	Pendleton, Ore
Brodine, Frank, FA.....	Seattle
Brodine, Sigrid, FA.....	Seattle
Brodnax, Nancy, Grad.....	Dallas, Tex
Brody, Leon, LA.....	Seattle
Bromberg, Bernice, FA.....	Portland, Ore
Broom, Mrs Alice, Educ.....	Seattle
Brooks, Benjamin, Grad.....	Tacoma
Brooks, Janice, Educ.....	Seattle
Brooks, Sheldon, Educ.....	Seattle
Brotherton, Regina, Educ.....	Stillwater, Minn
Brown, Bess Evelyn, Grad.....	Seattle
Brown, Clifton, LA.....	Seattle

Brown, Edith, Sci.....Seattle
 Brown, Eunice, Educ.....Benham, Mont
 Brown, Frances, Educ.....Victoria, BC
 Brown, Harry, Educ.....Seattle
 Brown, Jane, FA.....Spokane
 Brown, John, Fsh.....Seattle
 Brown, Lloyd, LA.....Wenatchee
 Brown, Lois, Educ.....Everett
 Brown, May, FA.....Cleveland, Ohio
 Brown, Otto, LA.....Cawbridge, Pa
 Brown, Sarah, Educ.....Port Angeles
 Brown, Victoria, Educ.....Seattle
 Browne, Elaine, Educ.....Vancouver
 Browning, Kathleen, Sci.....Menlo
 Broyles, Earl, Bus.....Seattle
 Brugger, William, Grad.....Tulare, SD
 Brunner, Eugene, Bus.....Seattle
 Bryson, Ruth, LA.....Whitefield, Mont
 Buchanan, Hubert, Bus.....Seattle
 Buchanan, Lorna, Grad.....Clear Lake
 Buck, Helen, Educ.....Seattle
 Buckbee, Grace, Educ.....Seattle
 Buckley, Catherine, LA.....Seattle
 Buckley, Nancy, Grad.....Seattle
 Buckley, Wallace, LA.....Coville
 Budde, Charles, Grad.....Seattle
 Bুদ্ধress, Elmer, LA.....Seattle
 Buedall, Anton, Grad.....Seattle
 Bunje, Emil, LA.....Seattle
 Bonker, Evans, Bus.....White Oak, Cal
 Burdick, Don, Grad.....Seattle
 Burneister, Viola, FA.....Seattle
 Burnam, David, Grad.....Sacramento, Cal
 Burnett, Hazel, Grad.....Seahurst
 Burnett, Louis, Bus.....Seattle
 Burnett, Thomas, Bus.....Seahurst
 Burns, Anna, Grad.....Seattle
 Burns, Evangeline, Educ.....Seattle
 Burns, Jessie, Grad.....Seattle
 Burns, Josepha, Grad.....Seattle
 Burns, Lillian, Bus.....Seattle
 Burns, Omar, Grad.....Seattle
 Burns, Robert, LA.....Seattle
 Burroughs, A, Grad.Irvington-on-Hudson, NY
 Bursell, Frances, Grad.....Seattle
 Burton, Clara, LA.....Seattle
 Burton, Jennie, Grad.....Seattle
 Burton, Mildred, FA.....Sequlm
 Bush, Arthur, Educ.....Idaho Falls, Ida
 Bush, Elizabeth, Grad.....Seattle
 Bush, Mrs Helen, Grad.....Seattle
 Buskett, Mary, LA.....Edmonds
 Busler, Edna, Educ.....Ellensburg
 Buss, Bessie, Grad.....Seattle
 Butler, Glorian, FA.....Wenatchee
 Butler, Longino, FA.....Seattle
 Butler, Mildred, LA.....Seattle
 Butler, Olive, LA.....Seattle
 Butler, Reno, LA.....Everett
 Butrick, Edith, Educ.....Tacoma
 Butrick, Merritt, LA.....Tacoma
 Butt, Richard, Grad.....Seattle
 Button, Arthur, Educ.....Kalama
 Button, Francella, LA.....Kalama
 Butts, Lucille, FA.....Chico, Cal
 Byron, Blanche, Educ.....Seattle

Cameron, May, LA.....Seattle
 Campbell, Claude, Grad.....Victoria, BC
 Campbell, Grace, Educ.....Yakima
 Campbell, John, Bus.....Seattle
 Campbell, John J, Bus.....Seattle
 Campbell, Lawrence, Grad.Los Salus, Cal
 Campbell, Lillian, LA.....Everett
 Campbell, Mary, Grad.....Seattle
 Campbell, Robert, Educ.....Pullman
 Canfield, Damon, Grad.....Yakima
 Cannon, Hayes, LA.....Seattle
 Capen, Donald, Grad.....Yelm
 Capen, Ellery, Grad.....Yelm
 Capewell, Ellen, LA.....Seattle
 Carder, Jessie, Educ.....Loveland, Colo
 Cardiff, Edward, LA.....Yakima
 Cardiff, Myrtle, FA.....Yakima
 Carle, Earl, Grad.....Seattle
 Carlson, Agnes, Grad.....Seattle
 Carlson, Carl, LA.....Altoona
 Carlson, Clement, Educ.....Ryderwood
 Carlson, Hulda, Educ.....Spokane
 Carlson, John, Grad.....Bremerton
 Carlson, Myrtle, LA.....Altoona
 Carlson, Nell, Educ.....Seattle
 Carlson, Reuben, Law.....Tacoma
 Carlson, Reuben J, Engr.....Seattle
 Carlson, Ruth, Grad.....Aberdeen
 Carmen, Mildred, LA.....Sumner
 Carmichael, Noel, Bus.....Seattle
 Carmichael, Ruth, Grad.....Richland
 Carnahan, Mary, Educ.....Rico, Colo
 Carothers, Sam, LA.....Tacoma
 Carr, Howard, Grad.....Tacoma
 Carr, Manette, LA.....Tacoma
 Carratte, Margaret, Educ.....Spokane
 Carran, Marie, LA.....Seattle
 Carter, Elizabeth, LA.....Seattle
 Carter, Glenn, LA.....Seattle
 Carter, Nellie, Grad.....LaConner
 Carter, Nura, LA.....Seattle
 Cartwright, Vance, Grad.....Seattle
 Casey, Leonard, LA.....Burlington
 Casey, Alice, LA.....Seattle
 Casey, Helen, LA.....Seattle
 Casey, J Marion, LA.....Rathdrum, Ida
 Caskin, Ivanilla, LA.....Seattle
 Casper, Bary, LA.....Seattle
 Castonia, Minnie, Educ.....Seattle
 Catlin, Mabel, Educ.....Seattle
 Catlow, Eunice, LA.....Lodi, Cal
 Catron, Marion, Educ.....Fuyallup
 Catton, Lois, Grad.....Seattle
 Caulkins, Alice, Grad.....Seattle
 Cavanagh, Nancy, Educ.....Pasadena, Cal
 Cavender, Fern, Bus.....Seattle
 Chalmers, Isabel, Sci.....Portland, Ore
 Chamberlain, Grad.....Seattle
 Chamberlin, James, LA.....Seattle
 Chamberlin, Maude, LA.....Tacoma
 Chambers, Ava, Sci.....Warrens, Wis
 Chan, Frank, Ingr.....China
 Chandler, Helen, Educ.....Bellingham
 Chandler, Marjorie, FA.....Seattle
 Chandler, Ruth, LA.....Beverly Park
 Chapel, Rosa, Educ.....Spokane
 Chapman, Zina, Educ.....Tacoma
 Charleston, William, Law.....Seattle
 Charlton, Harriet, Grad.....Chehalis
 Chase, Frances, Educ.....Seattle
 Chastain, Maude, Educ.....Seattle
 Chatterton, Katherine, Sci.....Seattle
 Chellquist, Florence, Educ.....Seattle
 Cheney, Ona Rae, Educ.....Spokane
 Christensen, Ferdinand, Grad.....Seattle
 Christensen, Valborg, Grad.....Seattle
 Christenson, Mildred, LA.....Salem, Ore
 Christy, Ian, Grad.....Olympia
 Christy, Dagmar, Grad.....Seattle
 Chrisswell, Irving, Grad.....Bryn Mawr
 Chryst, Margaret, LA.....Seattle

Cabatit, Irinea, Educ.....Philippines
 Cabot, Margaret, Educ.....Perrine, Fla
 Caffrey, Mary Louise, LA.Plattsburg, NY
 Cagle, Gladys, Educ.....Chelan
 Cahoon, Gladys, LA.....Snarace, Mich
 Caidan, Hazel, LA.....Fuyallup
 Calder, Mary Etta, Educ.....Dwight, Ill
 Calder, Thomas, LA.....Westminster, BC
 Caldwell, Jessie, Educ.....LaCrosse, Wis
 Callahan, Doris, LA.....Kansas City
 Callow, Edward, Grad.....Elma
 Cameron, Gladys, LA.....Bellingham
 Cameron, Jeanette, LA.....Chippewa, Wis

Chubbuck, Florence, Grad.	Cleveland, Ohio	Cristman, Martha, Grad.	Portage
Church, Ruth, Grad.	LaConner	Critchlow, Jane, Grad.	Pittsburgh, Pa
Clampett, Lyle, Bus.	Seattle	Crofoot, Mentha, Grad.	Seattle
Clancy, Margaret, Grad.	Seattle	Crowe, Clarence, Educ.	Vancouver, BC
Clark, Cella, Grad.	Mount Vernon	Crowley, Louise, LA.	Seattle
Clark, Gertrude, Educ.	Missoula, Mont	Crueger, Anne, LA.	Seattle
Clark, Harold, Educ.	Outlook	Crumbaker, Calvin, Grad.	Missoula
Clark, Lou Ena, Grad.	Seattle	Crummett, Ella, Educ.	Snohomish
Clark, Marjorie, Educ.	Palmyra, Mo	Cruver, Minnear, Educ.	Tacoma
Clark, Robert, LA.	Bremerton	Culp, Clyde, Grad.	New Rockford, ND
Clarke, Helen, Sci.	Tacoma	Cummings, Blanche, LA.	Tacoma
Classen, Marguerite, Educ.	Seattle	Cummings, Kathryn, LA.	Tacoma
Clemmer, Ruth, Sci.	Yakima	Cummings, Rena, Educ.	Seattle
Clough, Mrs Catherine, FA.	Tacoma	Cunningham, Chester, Bus.	Gibson City, Ill
Coates, Kathleen, LA.	Vancouver, BC	Cunningham, Gertrude, Grad.	Puyallup
Cobb, Martha, Sci.	Miles City, Mont	Cunningham, Robert, Bus.	Seattle
Coburn, Helen, FA.	Wenatchee	Curey, Mawryce, Grad.	Kalama
Cochran, Earl, Educ.	Seattle	Curtis, Ann, Grad.	Mt Vernon
Cochran, Vura, Educ.	Ione, Ore	Curtis, Elizabeth, FA.	Seattle
Cochran, Walter, Bus.	Seattle	Curtiss, Verne, Grad.	Grand Dalles
Cody, Mary Ellen, Educ.	Butte, Mont	Cushing, Eugene, Law.	Vancouver
Coffin, Doris, Sci.	Seattle	Cushman, Raybourne, LA.	Superior, Wis
Coffin, Ruth, FA.	Seattle	Cutter, Ray, Sci.	Seattle
Cohen, Fannie, Grad.	Seattle	Cuts, Cecilia, Grad.	Seattle
Cohen, Rose, LA.	Seattle	Cuts, Louise, Grad.	Seattle
Cohn, Rose, LA.	Seattle		
Coit, Beulah, LA.	Englevale, ND		
Coke, J Morton, LA.	Portland, Ore	Dabney, Elmer, Educ.	Malthy
Coker, Tracy, Grad.	Nampa, Ida	Dehlberg, W A, LA.	Escanaba, Mich
Cole, Harold, Bus.	Spokane	Dahlgreen, Evelyn, Grad.	Vega
Cole, Marjorie, Grad.	Seattle	Dahljelm, Marian, Sci.	Seattle
Cole, Sylpha, LA.	Bellingham	Dainty, Gracy, Sci.	Lethbridge, Alta, Can
Coleman, Frieda, Educ.	Seattle	Dale, Ange, LA.	Parkland
Coleman, Hugh, LA.	Cle Elum	Damon, Leslei, LA.	Seattle
Coles, Nathan, Educ.	Everson	Damon, Verne, Grad.	Walla Walla
Collistro, Charles, Law.	Portland, Ore	Dana, Ellis, LA.	Charles City, Ia
Collins, Frances, LA.	Great Falls, Mont	Danforth, Myrtle, LA.	Spokane
Collins, Gertrude, Educ.	Great Falls, Mont	Daniel, Mary, Educ.	Fueblo, Colo
Collins, Grace, Educ.	Kansas City	Dann, Lyla, Grad.	Salem, Ore
Compton, Kathryn, FA.	Seattle	Dann, Robert, Grad.	Salem, Ore
Conaway, Gail, LA.	Seattle	Darby, Edith, LA.	Sopkane
Condit, Charlotte, Grad.	Bliss, Ida	Darknell, Della, Grad.	Spokane
Coningham, Katherine, LA.	Omaha, Neb	Darragh, James, Engr.	Seattle
Conn, Jessie, LA.	Lethbridge, Alberta, Can	Dautoff, David, LA.	Portland, Ore
Conover, Chase, Grad.	Newberg, Ore	Davidson, Mabel, Educ.	Spokane
Converse, Adella, Grad.	Butte, Mont	Davidson, Ora, Educ.	Seattle
Converse, Esther, LA.	Butte, Mont	Davidson, Phillip, Law.	Ellensburg
Cook, Arthur, Bus.	Chimacum	Davies, Anne, Educ.	Carbonado
Cook, Chesley, LA.	Seattle	Davies, Rolland, LA.	Seattle
Cook, Eugene, Bus.	Madras, Ore	Davis, Binda, Educ.	Orange, Cal
Cook, Marjorie, Sci.	Seattle	Davis, Horner, LA.	Ephrata
Colledge, Bernard, FA.	Goodlg, Ida	Davis, Irene, LA.	Salina, Kan
Cooper, Cameron, Grad.	Seattle	Davis, Jack, LA.	Portland, Ore
Cooper, Florence, Educ.	Seattle	Davis, Kenneth, LA.	Denver, Colo
Cooper, Omer, Sci.	Auburn	Davis, Laura, LA.	Seattle
Copenhagen, Helen, Sci.	Seattle	Davis, Manima, LA.	Seattle
Copps, Anne, LA.	Everett	Davis, Mildred, Phar.	Seattle
Corbally, John, Grad.	South Bend	Davis, Paul, Grad.	Elma
Corbet, Clifford, LA.	Seattle	Davis, Nathan, Grad.	Renton
Corey, Edith, Sci.	Seattle	Davis, Olive, Educ.	Seattle
Corlett, Mildred, Grad.	Seattle	Davis, Thomas, LA.	Ephrata
Cornu, Donald, Grad.	Seattle	Davis, William, Bus.	Great Falls, Mont
Corwin, Clara, Grad.	Seattle	Dawson, John, Educ.	Seattle
Costello, Marretta, Educ.	Cle Elum	Day, George, Bus.	Clarkson
Cotterell, Edyth, Educ.	Clear Lake	Dean, Ray, Grad.	Longview
Coulter, Dorothy, Educ.	Portland, Ore	DeBord, Clarence, Grad.	Seattle
Countryman, George, Educ.	Everett	Deck, Alice, Educ.	Winnehago, Minn
Courtwright, Easter, Bus.	Spokane	Dedrick, Grace, Educ.	LaBelle, Mo
Cowan, Jean, Grad.	Box Elder, Mont	Deering, Esther, Educ.	Snohomish
Cowan, Margery, LA.	Box Elder, Mont	DeFord, William, Bus.	Seattle
Cowell, Faith, Grad.	Seattle	Dekker, Kate, Grad.	Seattle
Cowell, Ray, Grad.	Mt Vernon	DeLong, Leslie, LA.	Seattle
Cowvill, John, Engr.	Stellacoom	Demarest, Elizabeth, LA.	Tacoma
Cowling, Merie, LA.	Port Angeles	Danhof, Sherlie, Bus.	Seattle
Cox, Mary, Educ.	White Salmon	Denman, Leslie, LA.	Seattle
Coyne, Frances, Educ.	Graceville, Minn	Dennis, Roy, LA.	Longview
Craig, Willard, Grad.	Corvallis, Ore	Dennis, Ruth, LA.	Seattle
Craven, Dalton, Sci.	Seattle	DeShon, Marguerite, Grad.	Seattle
Crawford, Hazel, LA.	Spokane	Desmond, Ethel, LA.	Seattle
Crawshaw, Lula, Educ.	Seattle	DeSota, Alex, Educ.	Seattle
Cramer, Henry, Grad.	Seattle	Deter, Ellis, LA.	Brazil, SA
Crippen, Carrie, Jour.	Oryad	Devereaux, Catherine, LA.	Seattle

Devers, DeEtte, Grad.....Seattle
 DeWick, Agnes, Bus.....Seattle
 DeWitt, Ruth, FA.....Seattle
 DeYarmon, Ada, Educ.....Seattle
 Dick, Gordon, LA.....Seattle
 Dickens, Eloise, LA.....Marysville
 Dickes, Walter, Educ.....North Bend
 Dickey, Marion, Educ.....Everett
 Dickson, Belle, LA.....Spokane
 Dickson, John, Grad.....Seattle
 Dickson, William, Grad.....Sedro-Woolley
 Diederichs, Matilda, Sci.....Cranbrook, BC
 Dieffenbach, Lora, Sci.....Nampa, Ida
 Diemer, Mary, LA.....Des Moines, Ia
 Dilley, Marjorie, Grad.....Canon City, Colo
 Dills, Herbert, LA.....Yakima
 Dills, Leslie, Grad.....Yakima
 Dilworth, Richard, Bus.....Seattle
 Dimilante, Fortunato, Bus.....Philippines
 Dimmitt, Alba, LA.....Renton
 Dimmitt, Lorris, Grad.....North Bend
 Dingle, Leila, LA.....Seattle
 Dirks, Clarence, LA.....Woodrife, Cal
 Dishnow, Sylvia, LA.....Seattle
 Dittmer, Clarence, Educ.....Seattle
 Diveley, Mary, Grad.....Tacoma
 Dixon, Pearl, FA.....Seattle
 Doane, Sadie, LA.....Sparta, Wis
 Dobbins, Charles, LA.....New Westminster, BC
 Dobson, George, Grad.....Renton
 Dobson, John, LA.....Renton
 Dodd, Gordon, Law.....White Swan
 Dodge, Bradley, Educ.....Woodinville
 Doernbecher, Dorothy, LA.....Seattle
 Doheny, Geraldin, Grad.....Seattle
 Donovan, Shirley, Educ.....Seattle
 Doran, Evelyn, LA.....Seattle
 Dorcas, Marguerite, Grad.....Ketchikan, Alas
 Dorman, Helen, Sci.....Seattle
 Dorris, Anne, LA.....Seattle
 Dorris, William, Bus.....Seattle
 Dougherty, Elizabeth, Educ.....Seattle
 Douglass, John, Bus.....Pasco
 Douglass, Effie, Grad.....Seattle
 Dowd, Mary, LA.....Seattle
 Downing, Mont, Grad.....Tacoma
 Doyle, John, Sci.....Spokane
 Drake, Francis, Bus.....Sealsh
 Drane, Ralph, LA.....Ontario, Ore
 Dressler, Mildred, LA.....Salt Lake City, Ut
 Driscoll, Eswin, Law.....Seattle
 Dryer, John, Bus.....Yakima
 DuBois, Margaret, FA.....Seattle
 DuBois, Frances, Grad.....Seattle
 Dudley, Nellie, LA.....Los Angeles, Cal
 Duffield, Elizabeth, Educ.....Joliet, Mont
 Dunagan, Dessie, LA.....Ferndale
 Dunagan, Maude, LA.....Ferndale
 Duncan, Clifford, Grad.....Corvallis, Ore
 Duncan, Clifford, Grad.....Seattle
 Duncan, John, Sci.....Custer
 Dunlap, Nono, Educ.....Casper, Wyo
 Dunn, Agnes, Educ.....Tacoma
 Dunn, Lucy, FA.....Seattle
 Dunning, Guy, Law.....Seattle
 Dunning, Mary, Educ.....Seattle
 Nunton, Marjorie, Grad.....Tracy, Cal
 Dupins, Margaret, Grad.....Seattle
 DuPuis, William, Grad.....Spokane
 Durrant, Dudley, LA.....Seattle
 Durrwachter, Hilda, Educ.....Seattle
 Durrwachter, Irma, Educ.....Seattle
 Duskin, Edna, Sci.....Belleville, Kan
 Dutton, Mattie, Grad.....Portland, Ore
 Dwyer, Katharine, Grad.....Spokane

Eakin, Hattie, Grad.....Bellingham
 Earle, Eva, LA.....Saginaw, Mich
 Earnes, Robert, Grad.....Bothell
 Easton, Inez, Grad.....Kalama
 Eberharte, Joseph, Bus.....Seattle

Eby, George, Grad.....Vancouver
 Echols, Albert, Bus.....Seattle
 Eckelson, Genevieve, Educ.....Portland, Ore
 Eckert, Donald, LA.....Seattle
 Eckhart, Louise, Grad.....Enumclaw
 Eddy, Marguerite, LA.....Seattle
 Edes, Everita, LA.....New York City
 Edgerly, Marion, Educ.....Port Townsend
 Edmiston, Elsie, LA.....Douglas, Alaska
 Edwards, Flora, Grad.....Everett
 Edwards, George, Grad.....Seattle
 Edwards, Helen, LA.....Tacoma
 Edwards, Gertrude, LA.....Seattle
 Edwards, Lora, Educ.....Castle Rock
 Edwards, Lucile, Grad.....Seattle
 Edwards, Muriel, Grad.....Malta, Mont
 Edwards, Wilburn, Bus.....Oaksdale
 Egbers, Mark, LA.....Spokane
 Ehler, Maxine, Grad.....Seattle
 Ehrlichman, Hannah, LA.....Seattle
 Eidal, Otto, Educ.....Ellensburg
 Eiffert, Opal, Sci.....Seattle
 Ekberg, Ingeborg, Grad.....Tacoma
 Elarh, Sylvia, LA.....Seattle
 Elbert, Josephine, Sci.....Sedro-Woolley
 Elder, Raymond, Educ.....Lynden
 Eldridge, Eugene, LA.....Seattle
 Eldridge, Mrs Lena, Grad.....El Paso, Tex
 Elgan, Nellie, Educ.....Medford, Ore
 Eljenholm, Richard, For.....Hoquiam
 Eledge, Gladys, Grad.....Seattle
 Eledge, Leila, Grad.....Seattle
 Ellies, Matilda, Educ.....Oakland, Cal
 Elliot, Edith, Grad.....Seattle
 Elliot, Florence, LA.....Los Angeles, Cal
 Elliott, Marjorie, LA.....Spokane
 Elliott, Stanley, LA.....Kirkland
 Ellis, David, Grad.....Tonasket
 Ellis, Gertrude, Educ.....Anacortes
 Ellis, Rhena, LA.....Seattle
 Ellison, Herbert, LA.....Wenatchee
 Elwick, Andrew, Grad.....Seattle
 Emmerson, Henry, Grad.....Walla Walla
 Empey, Margaret, LA.....Spokane
 Endres, Teresa, LA.....Wenatchee
 Eng, Oscar, LA.....Seattle
 Engdahl, Selma, Grad.....Mt Vernon
 Engle, Beatrice, LA.....Billings, Mont
 English, Alice, LA.....Seattle
 English, Anna, Grad.....Seattle
 English, Elsie, Grad.....Seattle
 Engstrom, Ruth, FA.....Renton
 Enlis, Lorene, Grad.....Springfield, Mo
 Ennis, Lucille, Grad.....Springfield, Mo
 Erickson, Emma, Libr.....Two Harbors, Minn
 Erickson, Ethel, Educ.....Spokane
 Erickson, Hilden, LA.....Duluth, Minn
 Erickson, Mary E, LA.....Marysville
 Erickson, Sylvia, Grad.....Seattle
 Ervin, Dorothy, Sci.....Everett
 Ervin, Martha, LA.....Pateros
 Erving, Elizabeth, Sci.....Red Lodge, Mont
 Ervin, Ada, Grad.....Honolulu, Hawaii
 Eler, Donald, Engr.....Seattle
 Evans, Bessie, LA.....Kapowsin
 Evans, Jennette, FA.....Tacoma
 Evans, Rosena, Educ.....Hartline
 Evnson, Ella, LA.....Seattle
 Evnson, Theo, Grad.....Castle Rock
 Everett, Pauline, Educ.....Spokane

Fabrizo, Frank N, LA.....Louisville, Colo
 Fahey, Anna A, LA.....Seattle
 Fahey, Ella I, LA.....Seattle
 Fahey, Florence M, FA.....Seattle
 Fahey, Philip B, LA.....Seattle
 Fair, Jessie, Educ.....Seattle
 Falk, Alice E, LA.....Portland, Ore
 Fanselow, Fern, LA.....Perry, Iowa
 Farnar, Edna E, LA.....Seattle
 Farrar, Mayme, Grad.....Seattle

Farrar, Myrtle I, Grad.....	Langford, SD	Frem, Agnes, Grad.....	Seattle
Farrell, Harriet M, Educ.....	Butte, Mont	French, Hazel D, Grad.....	Ephrata
Farrell, Katherine, Grad.....	Butte, Mont	Freund, Julia, LA.....	Anacortes
Farrell, Margaret, Grad.....	Butte, Mont	Friderich, Hazel, LA.....	Seattle
Farrer, Edith L, Grad.....	Caldwell, Ida	Frisbie, Chester C, Educ.....	Parker
Faussett, Madge, Educ.....	Seattle	Frost, Reginald T, Engr.....	Prosser
Fawcett, John H, Grad.....	Seattle	Froude, Louise, Educ.....	Seattle
Fay, Dorothy, LA.....	Seattle	Froude, Ruth, LA.....	Seattle
Feley, Anne C, Educ.....	Granite Falls, Minn	Froula, D K, Engr.....	Seattle
Felmley, Marion, Bus.....	Seattle	Fry, Iva, Educ.....	Hoquiam
Felton, Margaret, Sci.....	Seattle	Fryer, Lucia, FA.....	Seattle
Felton, Rhoda M, Bus.....	Spokane	Pujil, Yoshito, LA.....	Seattle
Ferguson, Margaret B, Sci.....	Nannaimo, BC	Fukuda, Masanki, Bus.....	Japan
Ferney, Frances, LA.....	St Anthony, Ida	Fuller, Frances O, Educ.....	Park Rapids, Minn
Ferree, Edna Mae, FA.....	Seattle	Fuller, Veryl R, Grad.....	Alaska
Ferrell, Mary, Grad.....	Seattle	Fulp, Hazel, LA.....	Seattle
Ferrier, W K, Grad.....	Milwaukie, Ore	Fulton, Lois M, Grad.....	Asotin
Ferriss, Edith L, Sci.....	Seattle	Furgeson, Leora, Educ.....	Sumner
Fetter, Betty, LA.....	Seattle	Furgeson, Paul, Grad.....	Sumner
Fettis, Georgena, Sci.....	Centralia	Furlong, Lucy C, LA.....	Hibbing, Minn
Field, Dorothy, Bus.....	Red Wing, Minn	Futter, Floyd A, LA.....	Farmlington
Fieldhouse, Bernice, LA.....	Edelston, Ill		
Finch, Elizabeth, Educ.....	Aberdeen	Gaffney, Ruth A, LA.....	Seattle
Finke, Anita, Educ.....	Ocean View, Cal	Gagan, Hannah D, LA.....	Denver, Colo
Finke, Mabel L, Grad.....	Seattle	Gallagher, Beattie M, LA.....	Elizabeth, NJ
Fleet, Louise, LA.....	Seattle	Gallagher, Katharine, Educ.....	LaCrosse, Wis
Flish, Fred, Bus.....	Seattle	Gallup, Gladys, Grad.....	Seattle
Fitch, Ben R, LA.....	Mildred, Mont	Gantz, Ella, Sci.....	Spokane
Fitch, Hereford, Law.....	Tacoma	Garbe, Frank, Law.....	Chehalis
Fitzgerald, Florence, Sci.....	Seattle	Garden, Kathryn L, LA.....	Charleston
FitzGerald, John, Jour.....	Seattle	Gardner, Carl L, LA.....	Glendale, Cal
Fitzgerald, Petronilla, Educ.....	Walla Walla	Gardner, Stanley L, Bus.....	Spokane
Fitzpatrick, Marian, LA.....	Butte, Mont	Garner, Louella, LA.....	Seattle
Flaherty, Maurice G, Grad.....	Waterloo, Iowa	Garner, Zella, LA.....	Casper, Wyo
Flanagan, Gertrude, LA.....	Seattle	Garrecht, Caroline, LA.....	Spokane
Flavin, Ruth, Educ.....	Tacoma	Garred, Jessie, Educ.....	Spokane
Fleming, Edna, LA.....	Seattle	Garred, Ted, LA.....	Coulee
Fleming, William, Sci.....	Bothell	Garretson, Zelma, Sci.....	Cosmopolis
Fletcher, James V, LA.....	Seattle	Garrett, Alice, LA.....	Seattle
Flinn, Signe M, Educ.....	Chehalis	Garrett, John W, Grad.....	Honolulu, TH
Flood, George E, Law.....	Seattle	Garrett, Melba, Educ.....	Yakima
Flynn, Grace, Grad.....	Missoula, Mont	Gartin, Mary, Educ.....	Emmett, Ida
Fogarty, James, LA.....	Nampa, Ida	Gartin, William W, Grad.....	Emmett, Ida
Foley, Josephine, LA.....	Seattle	Gates, Alice E, LA.....	Seattle
Foley, Vernice M, Sci.....	Hamilton, Mont	Gayton, Gertrude, Educ.....	Seattle
Foltz, Frances E, Sci.....	Seattle	Genthard, Robert W, Bus.....	Spokane
Foltz, Lila R, LA.....	Parkland	Gellermann, Helen, LA.....	Seattle
Fonacier, Guillermo, LA.....	Philippines	Gellermann, Louis W, Grad.....	Chelan
Foot, Harriet E, LA.....	Seattle	Gellermann, Mildred W, Educ.....	Chelan
Forbes, Lucius E, Grad.....	Roslyn	Genauer, Sam, LA.....	Seattle
Ford, Gertrude C, Grad.....	Trenton, Neb	George, Elva M, Educ.....	Mora, Minn
Fordyce-Clark, Charles, Grad.....	Vancouver, BC	Georgeson, Dagmar, Grad.....	Sitka, Alas
Foresman, Doris, Sci.....	Yakima	Gerber, Barbara J, LA.....	Hardin, Mont
Forney, Rita, Educ.....	Mondovi	Gerber, Raymond A, Grad.....	Hardin, Mont
Forrest, John, Law.....	Seattle	Gerdeman, Alice E, Grad.....	Seattle
Forrey, Ralph, LA.....	Soap Lake	Gerhardt, Karl E, LA.....	Aberdeen
Forster, Myrtle, Educ.....	Hillsboro, ND	Gerhauer, Violet, LA.....	Spokane
Fossum, Myrtle E, LA.....	Eau Claire, Wis	Gerritt, Harriet I, Grad.....	Mountain View, Cal
Foster, Dorothy V, Grad.....	Seattle	Gibbs, William W, LA.....	Seattle
Foster, Frank K, Grad.....	Portland, Ore	Gibson, Frederick, Grad.....	Davenport
Foster, Mona, Educ.....	Seattle	Gibson, Jessie E, Grad.....	Seattle
Foster, Phillip R, Grad.....	Yakima	Gleason, Edith, Sci.....	Winslow
Foster, Versa G, Educ.....	Yakima	Gilbert, Sanford, Engr.....	Seattle
Fox, Albert, LA.....	Ferndale	Gilchrist, Lois N, Educ.....	Everett
Fox, Alta C, Sci.....	Devils Lake, ND	Gill, L Presley, Bus.....	Seattle
Fragen, Nathan, Engr.....	Seattle	Gilleland, Mary R, Educ.....	Seattle
Frank, Elizabeth, LA.....	Spokane	Gillespie, James C, Educ.....	Peck, Ida
Franklin, Grace, LA.....	Newhall, Ia	Gillian, Hazel M, FA.....	Piles, Ida
Franklin, William H, Grad.....	Newhall, Ia	Gillock, Eugenia, Grad.....	Fort Scott, Kan
Fraser, Ethel M, Educ.....	Stanfield, Ore	Gilman, Susie F, Educ.....	Ephrata
Fraser, Frank, Grad.....	Bellingham	Gilmer, Mary G, LA.....	Seattle
Fraser, Russell E, Grad.....	Davenport	Gilson, Ethel, LA.....	Seattle
Fraser, William E, Educ.....	Woodland	Gingrich, Esther, Educ.....	Spokane
Frater, Gwendolene L, LA.....	Tacoma	Gingrich, Florence, Bus.....	Spokane
Frazer, Holland, Grad.....	Sacramento, Calif	Giovanini, Orlena, FA.....	Roslyn
Frazer, Raymond A, Sci.....	Laramie, Wyo	Glanville, Arthur T, Grad.....	Seattle
Frazier, James W, LA.....	Seattle	Glasgow, Marian J, FA.....	Tacoma
Freeborg, Edith, Educ.....	Spokane	Gleditsch, Arthur B, Grad.....	Seattle
Freed, William J, Educ.....	Parkland	Gleiser, Thornton, Sci.....	Palouse
Freeman, Trusette A, Educ.....	Centralia	Glen, Juliet K, Grad.....	Seattle
Freistat, Mabel R, LA.....	Seattle	Glover, Augusta, Sci.....	Seattle

Glover, O K, Grad.....	Seattle	Hall, Alvin M, Educ.....	Seattle
Gnagy, Muriel J, Grad.....	Tacoma	Hall, Amy V, Grad.....	Seattle
Godsey, Bess H, LA.....	Bellevue	Hull, Annette S, LA.....	Kettle Falls
Goebel, Ralph N, Grad.....	Port Arthur, Tex	Hall, Edythe C, Sci.....	Jamestown, ND
Goehring, Viola E, Grad.....	Seattle	Hall, Eloise M, LA.....	Centralia
Goetting, Gladys W, Educ.....	Seattle	Hall, Luella J, Grad.....	Seattle
Goldsworthy, William P, Educ.....	Chelan	Hall, Ruth, LA.....	Concrete
Golling, Lillian J, LA.....	Nevada, Ohio	Hall, Unina F, Educ.....	Vancouver, BC
Gonderman, May, LA.....	Spokane	Hall, Vesper T, Grad.....	Seattle
Good, Lydia M, LA.....	Mt Vernon	Hall, Winfred L, LA.....	Centralia
Goodrich, Haven G, Grad.....	Seattle	Haller, Katherine S, LA.....	Seattle
Goodwin, Marshall, Educ.....	Seattle	Haller, Theodore, Engr.....	Seattle
Goore, John, Engr.....	Tacoma	Hallett, Pearl F, Educ.....	Bellingham
Goos, Lydia, Educ.....	Spokane	Hallin, Ruth M, Grad.....	Tacoma
Gorbutt, Catherine, LA.....	El Paso, Tex	Hallstrom, E Wm, LA.....	Seattle
Gorham, Helen, LA.....	Snohomish	Halvarson, Thure, Engr.....	Seattle
Gorman, Helen, Sci.....	Auburn	Hambert, Nona C, Grad.....	Spokane
Gormley, Mary C, Grad.....	Seattle	Hamblen, Ruth, LA.....	Seattle
Gorow, Frank F, Sci.....	Tacoma	Hamilton, Bernice M, Grad.....	Spokane
Gorwill, Genevieve, Grad.....	Seattle	Hamilton, Laura H, Grad.....	Renton
Gose, Jack G, Law.....	Seattle	Hamilton, Rachel E, Grad.....	Echo, Ore
Gourlay, Arthur C, Bus.....	Seattle	Hamley, Charles L, LA.....	Bellevue
Gow, Dorothy, Educ.....	Hibbing, Minn	Hamley, Frederick, LA.....	Bellevue
Gow, Sara, Educ.....	Hibbing, Minn	Hammer, Gunda M, Grad.....	Seattle
Grady, Alice, Sci.....	Seattle	Hammond, Allen O, Grad.....	Seattle
Graham, Edna, LA.....	Spokane	Hanley, Maurus R, LA.....	Seattle
Graham, Elizabeth, LA.....	Bellingham	Hanna, Mildred, Grad.....	Caldwell, Ida
Graham, Helen F, Grad.....	Seattle	Hansen, Augusta, Educ.....	Middlepox, NY
Grahn, Clarence A, Bus.....	Seattle	Hansen, Herbert, Grad.....	Bellingham
Grahn, Edgar R, Sci.....	Berkeley, Calif	Hanson, Alice P, LA.....	Seattle
Grandson, Myrtle E, Educ.....	St Thomas, ND	Hanson, Dagny, Educ.....	Malta, Mont
Grant, Frank W, Bus.....	Everett	Hanson, Emma M, Pharm.....	Puyallup
Grant, Jeanie, LA.....	Seattle	Hanson, Helen, FA.....	Seattle
Grant, Marian, FA.....	Glenrock, Wyo	Hanson, Hilda, LA.....	Seattle
Grant, Ruth A, Grad.....	Seattle	Hanson, Louise, Sci.....	Olympia
Grauman, Helen G, Grad.....	Seattle	Hanson, Stella, LA.....	Tacoma
Graves, Joy, Educ.....	Spokane	Hardinger, Emery E, Grad.....	Cheney
Graves, Virginia, FA.....	Seattle	Hardman, Ethel R, Educ.....	Olympia
Gray, Andrew E, Educ.....	Seattle	Hareid, Cecelia P, LA.....	Edmonds
Gray, Edith V, LA.....	Viola, Idaho	Harling, Emma, Sci.....	Newton, Kan
Gray, Helen E, FA.....	Seattle	Harper, Elizabeth, Educ.....	Glen Dilla, ND
Gray, Mary A, Grad.....	Portland, Ore	Harper, Willard W, Sci.....	Filer, Ida
Gray, Mary Anne, FA.....	Viola, Ida	Harris, Arthur J, LA.....	Port Angeles
Gray, Rose, Educ.....	Tacoma	Harris, Jessie E, Educ.....	Seattle
Gray, Ruth M, Grad.....	Renton	Harris, Leland S, Grad.....	Seattle
Graybill, Clara, Grad.....	Spokane	Harris, Marguerite, LA.....	Seattle
Grebe, Enid A, Educ.....	Spokane	Harris, Zenne, Educ.....	Bellingham
Grebe, Louise E, Grad.....	Spokane	Harrison, Aldine M, Educ.....	Tacoma
Green, Edward F, Sci.....	Seattle	Harrison, Belle C, Educ.....	Boulder, Mont
Green, Kathleen M, Educ.....	Tacoma	Harrison, Ben S, Grad.....	Sau Diego, Calif
Green, Norman E, Sci.....	Bothell	Harrison, Mae, Grad.....	Seattle
Greene, Rachel, Sci.....	Seattle	Harsch, Alfred E, Law.....	Seattle
Greenlee, Mary E, LA.....	Portland, Ore	Hart, Dorothy, FA.....	Seattle
Greenough, Joe W, LA.....	Spokane	Hart, Lou Ella, Grad.....	Tacoma
Greenstone, Charles, Jour.....	Seattle	Hartle, Frances, LA.....	Seattle
Gregg, Dorothy D, FA.....	Chehalis	Hartley, Lee L, LA.....	Pittsburgh, Pa
Griffin, Hortense, Sci.....	Seattle	Hartman, Claris, Grad.....	Auburn
Griffin, Lillian C, LA.....	Raymond	Hartney, Margaret, Educ.....	Seattle
Griffith, Lillian, Educ.....	Clinton, Mo	Hartsock, Franklin E, Grad.....	Langley
Griffith, Wallace C, Grad.....	Salem, Ore	Harvey, Annie G, LA.....	Fresno
Griggs, Jay H, Educ.....	Yakima	Hastings, Jessie, LA.....	Seattle
Grogan, Ann Ruth, FA.....	Seattle	Hatch, Corinne, LA.....	Spokane
Grove, Clare, Grad.....	Seattle	Hatlen, Charles B, Grad.....	Toledo
Groves, Mary L, Grad.....	Seattle	Hauck, Hazel M, Grad.....	Seattle
Grunbaum, Helen, LA.....	Seattle	Hauswald, Richard, Grad.....	Seattle
Gulang, Pedro G, Grad.....	Philippines	Havekost, Emma M, LA.....	Coleridge, Neb
Gullen, Filemon, Grad.....	Philippines	Hawkins, Harold L, LA.....	Bellingham
Gulliksen, Harold, Grad.....	Seattle	Hawkins, Hazel M, LA.....	Everett
Gunnell, Mary E, FA.....	Seattle	Hayes, Frank D, FA.....	Chewelah
Gunning, Nellie, Sci.....	Seattle	Hays, Mary H, Sci.....	Seattle
Gunther, Jerome, LA.....	Portland, Ore	Hzzen, Kathryn, Grad.....	Auburn
Guthrie, Alice B, Educ.....	Seattle	Hazzard, Warren M, Grad.....	Seattle
Guthrie, Elton F, Grad.....	Seattle	Heath, Georgia, Educ.....	Tacoma
Gutterman, Charles D, LA.....	McMinnville, Ore	Heaton, Laura, LA.....	Bellingham
Haack, W Margaret, Grad.....	Stanwood	Hedges, Genevieve, LA.....	Seattle
Hadcock, Boyd, Bus.....	Earlington	Hegge, Eleanora, Educ.....	New England, ND
Hage, Judith M, LA.....	Halstead, Minn	Hekel, Louise, LA.....	Tacoma
Hagen, Mina J, LA.....	Seattle	Hely, Kathleen, Grad.....	Seattle
Hagerty, Nellie, Grad.....	Seattle	Hench, Ann A, Educ.....	Stevensville, Mont
Hahner, Alice, Educ.....	Spokane	Henderson, Elizabeth, LA.....	Colfax
Hale, Annie, Educ.....	Afton, Wyo	Henderson, Grace, Educ.....	Seattle

Henderson, James B, Educ.	Pontotoc, Miss
Henderson, Lawrence E, Bus.	Seattle
Henderson, Nell F, LA.	Seattle
Hendrick, Marian, Educ.	McMinnville, Ore
Henke, Harry, Jr, Law.	Seattle
Hennessy, Hope, Grad.	Spokane
Henriot, Jane, LA.	Mercer Island
Henry, Florence, LA.	Tacoma
Herbert, Elizabeth, Educ.	Spokane
Herford, Marjorie, LA.	Seattle
Herrmann, Ida M, LA.	Seattle
Herren, Dora S, Educ.	Seattle
Herzog, Harold A, Bus.	Seattle
Hesslan, Howard, LA.	Seattle
Hickey, Vernard B, LA.	Lowell
Hicks, Bessie O, Educ.	Seattle
Hicks, Ethel D, Educ.	Seattle
Hicks, Helen B, Educ.	Seattle
Hiersch, Wilhelmina, Grad.	Burton
Higgins, Marie, LA.	Chelan
Hight, Edwin W, LA.	Wilder
Hightower, Mildred K, Educ.	Centralia
Hill, Ellen I, Grad.	Petersburg, Alaska
Hill, John E, Law.	Seattle
Hill, Martha E, LA.	Seattle
Hilton, Maud, LA.	Seattle
Hilzinger, Julia, Educ.	Seattle
Himes, Velma, LA.	Montesano
Hinckley, Loretta, LA.	Tacoma
Hinckley, Martha, FA.	Seattle
Hinderer, Winfred E, LA.	Portland, Ore
Hine, Marie, LA.	DuQuoin, Ill
Hinman, Mary, Grad.	Everett
Hinman, Ruth, Educ.	Missoula, Mont
Hinricks, Grace A, LA.	Seattle
Hintermeister, Viva, LA.	Huron, SD
Hintgen, Josephine, Educ.	LaCrosse, Wis
Hirose, Ruby, Pharm.	Auburn
Hitchcock, Anna, Grad.	Florence, Colo
Hjermstad, Martha, LA.	Anacortes
Hjermstad, Signe, LA.	Anacortes
Hoard, James L, Engr.	Seattle
Hoard, Ruth, Sci.	Seattle
Hoff, Alice, Bus.	Seattle
Hoff, Ebbe C, Sci.	Bothell
Hoff, Hebbel E, Sci.	Bothell
Hofflang, Laura, Grad.	Seattle
Hogan, Reanna J, Bus.	Seattle
Hoggatt, Floyd L, LA.	Kalama
Hoglund, Olga E, FA.	Fertile, Minn
Hoke, Mary B, Educ.	Spokane
Holland, Maxine E, Sci.	Los Angeles
Holmes, Elinor, LA.	Centralia
Holmes, Merton, Sci.	Centralia
Holmquist, Hjalmar E, Grad.	Cheney
Holt, Flora, Educ.	Auburn
Hoof, Anna T, Sci.	Seattle
Hopper, Margaret A, LA.	Spokane
Hoppeck, Gertrude C, Grad.	Seattle
Horn, Tory, Engr.	Seattle
Horney, Josephine, Grad.	Seattle
Houlahan, Anna, Sci.	Seattle
Houlahan, Virginia, Educ.	Seattle
How, Bella M, Educ.	Seattle
How, Jessie K, Educ.	Seattle
Howard, Inez C, Educ.	Manette
Howe, Alice, Grad.	Seattle
Howe, Drayton F, LA.	Seattle
Howe, Ramel E, Educ.	Olympia
Howe, Sarah G, Grad.	Emporia, Kan
Howells, Charlotte, LA.	Seattle
Howells, Harriet, Sci.	Taft, Calif
Howlett, Robert F, Bus.	Seattle
Hoye, Margaret I, LA.	Hurley, Wis
Hoyt, Mary, Educ.	Seattle
Hoyt, Vera K, Grad.	Enid, Okla
Hudson, Jewel, Educ.	Seattle
Hudson, Robert D, LA.	Yakima
Huestis, Myra, LA.	Concrete
Huff, Elizabeth, LA.	Seattle
Huff, Elizabeth N, FA.	Baker, Ore
Huffine, Sherman, LA.	Seattle
Hughes, Elwyn L, Bus.	Bryn Mawr
Hughes, Martha E, LA.	Seattle
Hulk, Senia H, Educ.	Kent
Hulshouser, Ruth A, Grad.	Sealah
Hulvey, John H, Grad.	Seattle
Hummel, Floy, Educ.	Spokane
Humphries, J Orville, LA.	Spokane
Hunsaker, Myrtle L, Educ.	Greybull, Wyo
Hunt, Ernest R, Grad.	Seattle
Hunter, Jennie, LA.	Portland, Ore
Hunter, Myrtle C, Grad.	Santa Fe, NM
Hurd, Guy W, Educ.	Seattle
Hurlburt, Hazel L, LA.	Galva, Ill
Hurley, Colla P, Educ.	Seattle
Hurley, Jesse R, LA.	Pecatonia, Ill
Hurt, Ethel, LA.	Horseshoe Bend, Ida
Hurwitz, Rose M, LA.	Los Angeles, Calif
Husted, Donald, Law.	Longview
Huston, J Victoria, Grad.	Prineville, Ore
Hutcheson, Betty, LA.	Montesano
Hutchings, G Keith, LA.	Spokane
Hutchinson, Joyce, LA.	Vancouver, BC
Hutchison, Neil, FA.	Seattle
Hutchison, Ruth, LA.	Ablene, Texas
Hutton, Evelyn I, Educ.	Dayton
Hutton, Marian A, Educ.	Wallace, Ida
Hyde, Helen T, LA.	Seattle
Hyland, Marianne F, LA.	Seattle
Hyland, Mary, FA.	Seattle
Hynes, Philomena L, Educ.	Seattle
Ihle, Thilde, Educ.	Newfalden, Minn
Immel, Cordella, LA.	Toppish
Ingbritsen, Bernice, FA.	Astoria, Ore
Ingels, Wilda, Educ.	LaGrande, Ore
Ingerson, Goldie L, LA.	Spokane
Inglis, Ralph L, Bus.	Seattle
Ingraham, L Winifred, Educ.	Seattle
Isaac, Elizabeth, LA.	Seattle
Isolany, Constance, Grad.	Prisbo, SD
Isolany, Juliette, Grad.	Prisbo, SD
Iverson, Osello, FA.	Bellingham
Iverson, Lyle L, Law.	Seattle
Iverson, Fred N, Bus.	Seattle
Iverson, Grace K, Sci.	Seattle
Jackson, Anna E, Educ.	Butte, Mont
Jackson, Elizabeth, LA.	Sunnyside
Jackson, Ethel, Sci.	Mino, ND
Jackson, Gertrude, Educ.	Rochester
Jackson, Julia, LA.	Black Diamond
Jackson, Kirby, Grad.	Nashville, Tenn
Jackson, Lillie, Sci.	Edmonton, Alta
Jackson, Mabel A, LA.	Seattle
Jacobs, Winifred, Sci.	Seattle
Jacobs, Zola D, Educ.	Findlay, Ohio
Jacobsen, Philip A, Grad.	Seattle
Jacobsen, Olga, Grad.	Seattle
Jaeger, Ethel F, Grad.	Seattle
Jaeger, Julius P, Grad.	Seattle
Janson, Raymond, LA.	Seattle
Jardine, Nan T, Grad.	Seattle
Jenks, Theodore, Bus.	Seattle
Jenner, Evalene, Grad.	Arlington
Jensen, Ethel M, Educ.	Seattle
Jensen, Harriet, Bus.	Seattle
Jensen, Helen F, FA.	Seattle
Jensen, Henrietta, Bus.	Ellensburg
Jensen, Theodore, Pharm.	Seattle
Jespersen, Christian, Educ.	Rickey, Mont
Jespersen, Florence, Educ.	Rickey, Mont
Jewell, Mildred, Grad.	Republic
Johns, Frances M, Educ.	Bellingham
Johnson, Elaine, Educ.	Seattle
Johnson, Alida R, LA.	Seattle
Johnson, Anna E, Educ.	Seattle
Johnson, Anne I, LA.	Kapowsin
Johnson, Anna J, Educ.	Kapowsin

Johnson, Anne Marie, Educ.....	Winlock	Kellett, Gladys M, LA.....	Seattle
Johnson, Arnold, Bus.....	Seattle	Kellett, Jeanette G, LA.....	Seattle
Johnson, Doris M, Educ.....	Maryville, ND	Kelley, Albert H, LA.....	Seattle
Johnson, Ealcen, LA.....	Boulder, Colo	Kelley, Curtis, Grad.....	Seattle
Johnson, Elizabeth L, LA.....	Washburn, ND	Kelly, Fred A, Grad.....	Chehalis
Johnson, Elsie M, Educ.....	Washougal	Kelly, Georgia F, LA.....	Seattle
Johnson, Eric C, LA.....	Seattle	Kelly, Helen L, Grad.....	Fayette, Iowa
Johnson, Grace A, LA.....	Seattle	Kelly, Jane, Educ.....	Seattle
Johnson, Hilda M, Educ.....	Eveleth, Minn	Kelly, John C, Jr., LA.....	Seattle
Johnson, Hugo N, Educ.....	Raymond	Kelso, Wallace W, LA.....	Chehalis
Johnson, Irene, Educ.....	Afton, Wyo	Kemp, Charles H, LA.....	Hollywood, Calif
Johnson, Julia E, Educ.....	Spokane	Kemp, Sarah G, LA.....	Hollywood, Calif
Johnson, Leslie W, Grad.....	Seattle	Kendrick, Golda B, FA.....	Seattle
Johnson, Martha R, Grad.....	Seattle	Kendrick, Raymond H, Grad.....	Seattle
Johnson, Mildred O, Educ.....	Spokane	Kennedy, Esther E, Grad.....	Seattle
Johnson, Myrtle D, Grad.....	Spokane	Kennedy, Francis, LA.....	Vancouver, BC
Johnson, Paul W, Grad.....	Spokane	Kennicott, Frances C, LA.....	Chehalis
Johnson, Ralph, Grad.....	Mercer Island	Kenny, James E, Engr.....	Seattle
Johnson, Rozellna, LA.....	Seattle	Kenyon, Ethel M, Educ.....	Kirkland
Johnson, Ruth L, Educ.....	Fargo, ND	Kermode, Clara A, LA.....	Seattle
Johnson, Venus J, Grad.....	Seattle	Kerry, Albert S, Jr., LA.....	Seattle
Johnson, Vernon B, Grad.....	Seattle	Kersten, Lyda E, Educ.....	Casper, Wyo
Johnson, C Vinston, LA.....	Wakefield, Neb	Kessler, George, Grad.....	Seattle
Johnson, Vivian H, LA.....	Olympia	Ketcham, Lilla M, LA.....	Indianapolis, Ind
Johnson, Wilber, Bus.....	Seattle	Ketcham, Mary V, FA.....	Seattle
Johnson, Iris, LA.....	Seattle	Kienholz, Edward G, Educ.....	Marysville
Johnson, Margaret E, LA.....	Seattle	Kilkenny, Rose, FA.....	Heppner, Ore
Johnson, Marjorie D, FA.....	Seattle	Kindschy, Ethel S, LA.....	Seattle
Johnston, Melvin F, Grad.....	Banks, Ore	Kindschy, Robert R, LA.....	Seattle
Johnstone, Annabel, Grad.....	Seattle	King, Grace E, Grad.....	Seattle
Jolliff, Lewis, Sci.....	Olympia	King, John C, Sci.....	Yelm
Jonasson, Jonas, Grad.....	Bow	King, Lewis Clyde, LA.....	Seattle
Jones, Anne L, Educ.....	Cle Elum	Kinkade, Lucille, Grad.....	Sedro-Woolley
Jones, Dorothy A, FA.....	Dayton	Kirk, Bessie L, Educ.....	Everett
Jones, Elizabeth, Educ.....	Pipestone, Minn	Kirk, Douglas G, Grad.....	Seattle
Jones, Elizabeth D, Sci.....	Seattle	Kirkham, Carol, LA.....	Seattle
Jones, Grace, LA.....	Birmingham, Ala	Kirklin, Lee I, Educ.....	Seattle
Jones, Hannah, Educ.....	Seattle	Kirsh, Lucille B, Bus.....	Everett
Jones, Jennie, Grad.....	Salt Lake City, Utah	Kittredge, Marguerite E, Grad.....	Seattle
Jones, Juliette, Sci.....	Seattle	Klaus, Frederick F, Educ.....	Chehalis
Jones, Lella, Sci.....	Seattle	Klaus, Mildred, LA.....	Reno, Nev
Jones, Margaret B, Grad.....	Seattle	Klies, Adolph, Educ.....	Newburst, Mont
Jones, Margaret C, Grad.....	Spokane	Klinker, Kathleen, Grad.....	Sun Sharon, Ia
Jones, Marjorie, LA.....	Ellensburg	Knapp, Dora E, Grad.....	Everett
Jones, Nancy E, Grad.....	Seattle	Kneipp, Margaret, Sci.....	Snohomish
Jones, Quentin, BA.....	Reville, SD	Knight, Annalou, LA.....	Seattle
Jones, Veda M, Educ.....	Seattle	Knight, Elizabeth M, Educ.....	Tulare, Calif
Jordan, Jane, LA.....	Deer Lodge, Mont	Knight, Homer T, LA.....	Weiser, Ida
Jordan, Kathryn, LA.....	Everett	Knight, Rebecca S, Educ.....	Seattle
Jordan, Margaret R, LA.....	Seattle	Knott, Dorothea, Educ.....	Monroe
Jordan, Paul, Bus.....	Sacramento, Calif	Knowlton, Charlotte J, Grad.....	Seattle
Jorgensen, Virgil, LA.....	Minden, Neb	Knudsen, Art, LA.....	Seattle
Josenhaus, Sarah C, LA.....	Seattle	Knudsen, Gertrude A, Educ.....	Sherwood, ND
Joseph, Jean, Bus.....	Seattle	Knutson, Knute J, Educ.....	Seattle
Joslyn, Ruth, LA.....	Seattle	Knutson, Marie L, LA.....	Seattle
Joyce, Charles E, Educ.....	Ladner, BC	Knutson, Sever R, Grad.....	Northwood, Iowa
Judd, Margaret, LA.....	Seattle	Knutzen, Edwin C, FA.....	Seattle
Judges, Bertha, Grad.....	Seattle	Kobe, Susumu, Grad.....	Japan
Jule, Walter, Bus.....	Seattle	Kobeit, Ernest E, Educ.....	Seattle
Just, Evangeline, Grad.....	Ritzville	Koch, Gertrude, FA.....	Olympia
		Koeman, Rose, Bus.....	Everett
		Koen, Josephine, Educ.....	Prosser
Kaerberle, Lynn, Bus.....	Newhall, Iowa	Kolstad, Beatrice, Sci.....	Seattle
Kaftan, Mary J, LA.....	Tyndall, SD	Kooken, Katherine, Grad.....	Ellensburg
Kangley, Lucy, Grad.....	Seattle	Korin, Herman J, Sci.....	Seattle
Kapek, Carolyn F, Grad.....	Spokane	Korter, Irene, Grad.....	Seattle
Kaplan, Alex S, LA.....	Seattle	Kosliakoff, Ivan T, Engr.....	Seattle
Karn, Laura M, Educ.....	Spokane	Kraetz, Earl, Fish.....	Arlington
Kassebaum, Karl F, Jour.....	Seattle	Krause, Laura, Educ.....	Gladstone, Ore
Katayama, Elmer J, Bus.....	Seattle	Kritz, Margarette J, Sci.....	Denver, Colo
Kato, Michinori, Pharm.....	Japan	Kroetch, Gertrude C, FA.....	Spokane
Katzmeier, Rosalie D, LA.....	Seattle	Krueger, Harold A, Sci.....	Wausau, Wis
Kaul, Elithe, Educ.....	Livingston, Mont	Kucera, John P, Grad.....	Lacey
Keegan, Sarah E, LA.....	Spokane	Kuenzli, Ruth B, LA.....	Nevada, Ohio
Keeler, Ruth E, Bus.....	Yakima	Kuhn, Bertha M, Grad.....	Beech, ND
Keenan, James M, LA.....	Butte, Mont	Kumler, Marjorie, LA.....	Denver, Colo
Keene, Edna L, FA.....	Prosser	Kuney, Edith C, Educ.....	Corvallis, Ore
Keene, Mildred Y, Educ.....	Seattle	Kunz, Hillary M, Grad.....	Spokane
Kell, Caroline P, Educ.....	Seattle	Kuwahara, Tosak, Sci.....	Japan
Kellholtz, Ruth, Grad.....	Seattle	Kuykendall, Berdina, Grad.....	Pomeroy
Kelleher, Marion, LA.....	Seattle	Kwapil, Dorothy, LA.....	Seattle

Kwapil, Richard, Bus.....	Seattle	Lewis, Wilma, Grad.....	Seattle
Lacey, Florence T, LA.....	Denver, Colo	Lidell, Alma A, FA.....	Big Rapids, Mich
Lackey, Ralph L, LA.....	Touchet	Lievsey, Jack, Grad.....	Seattle
Lacock, Grace N, LA.....	Pittsburgh, Pa	Lind, Anna R, LA.....	Mt Vernon
Lafranchi, Vincent, Engr.....	Seattle	Lindahl, Martin L, Grad.....	Seattle
Lagpacan, Buenaventura, Bus.....	Seattle	Lindblad, Emil C, Bus.....	Bellingham
Lalrd, Helen, Educ.....	Butte, Mont	Lindell, Mildred, Grad.....	Washburn, ND
Lake, Carrie B, Sci.....	Spokane	Lindgren, Bert E, Fish.....	Woodinville
Lake, Florence, LA.....	Spokane	Linarud, Thora, Educ.....	Ferndale
Lake, Lucile, Educ.....	Spokane	Lippman, Sam, Pharm.....	Seattle
Lamb, Leona F, LA.....	Billings, Mont	Lister, Fraser, Grad.....	Vancouver, BC
Lambrecht, Lillian, LA.....	Seattle	Liston, Edward J, Grad.....	Seattle
Lammers, Frieda, Grad.....	Port Townsend	Little, Charles L, Grad.....	Centralia
LaMonde, Althea, LA.....	Tacoma	Little, Agnes M, LA.....	Emmett, Ida
Lawson, Florence A, Educ.....	Sheridan, Ore	Little, Herbert, Grad.....	Seattle
Landaal, Lester H, FA.....	Seattle	Little, Iris, LA.....	Hermiston, Ore
Landahl, Hazel, Educ.....	Seattle	Littlefield, Lenn, Grad.....	Seattle
Landers, Ida M, LA.....	Seattle	Livingston, Louis, Grad.....	Chehalis
Landon, Alice, LA.....	Monte Vista, Calif	Lloyd, Edna B, Educ.....	Seattle
Lang, Annice M, Educ.....	Concrete	Locke, Clara B, Educ.....	Everett
Lang, Hazel C, Educ.....	Spokane	Lockhart, Patience, Educ.....	Seattle
Lange, Esther F, LA.....	Storm Lake, Iowa	Lofgren, Frederick, Grad.....	Seattle
Lange, Millie B, Educ.....	Spokane	Lofgren, Theodore A, Engr.....	Seattle
Langley, Rosa A, LA.....	Spokane	Lommasson, Helen, Educ.....	Clarkston
Lappenbusch, Marie, Educ.....	Buckley	Loncke, Madeline, Bus.....	Seattle
Larsen, Henry, Grad.....	Seattle	Long, Agnes, Grad.....	Seattle
Larsen, Jessie K, FA.....	Chewelah	Long, Hazel G, Grad.....	Council Bluffs, Ia
Larson, Agnes L, FA.....	Yakima	Long, James G, Sci.....	Seattle
Larson, Alva G, Grad.....	Choteau, Mont	Long, Kathyrine, LA.....	Seattle
Larson, Gladys B, Educ.....	Yakima	Long, Margaret K, FA.....	Portland, Ore
Larson, Joseph, LA.....	Yakima	Long, Ruby O, Grad.....	Cashmere
Larson, Luella, Grad.....	Seattle	Long, Stanley B, Law.....	Chehalis
Larson, Richard C, Bus.....	Seattle	Long, Violet L, Educ.....	Redlands, Calif
Laskowski, Metka, Educ.....	Minot, ND	Long, Watt A, Grad.....	Portland, Ore
Lassek, Arthur M, Sci.....	Seattle	Logenbaugh, May, LA.....	Seattle
Lathrop, Roy A, Grad.....	Seattle	Loomis, Eloise, Grad.....	Ottumwa, Ia
Laughon, Lawrence K, Educ.....	Davenport	Lopp, Ellen K, LA.....	Seattle
LaVigne, Naomi, Grad.....	Seattle	Lorch, Rose T, Educ.....	Alexandria, Ind
Lavin, Leila, Educ.....	Spokane	Lorenzen, Hilda M, Educ.....	Pendleton, Ore
Lawrence, Charles W, Grad.....	Seattle	Lorer, Joe M, Bus.....	Nez Perce, Ida
Lawson, Norman P, Grad.....	Alder	Loring, Lucien, Educ.....	Portland, Ore
Lezo, Salvador, Engr.....	Philippines	Lothrop, Rex E, Grad.....	Corvallis, Ore
Leach, Eleanor, LA.....	Missoula, Mont	Love, Grover Allen, Educ.....	Snohomish
Leach, Shirley W, Bus.....	Seattle	Loving, Eleanor, Sci.....	Camp Lewis
LeBlanc, Ethel M, Educ.....	Goldendale	Lowary, Thaddeus A, Bus.....	Polson, Mont
LeCompte, George A, Sci.....	Shelton	Lowe, Ben F, Grad.....	Tacoma
Ledrich, Fay, LA.....	Wooster, Ohio	Lowman, James G, Grad.....	Seattle
Ledrich, Roxanna, Educ.....	Wooster, Ohio	Lowry, Roxie K, Educ.....	Harrisburg, Ill
Lee, Anna M, LA.....	Amber	Luce, Florette O, Educ.....	Denver, Colo
Lee, Austa I, Educ.....	Enumclaw	Lucus, Helen M, Grad.....	Bremerton
Lee, Ella B, LA.....	Seattle	Lubke, Elsie, Educ.....	Bonanza, Ore
Lee, Helen I, LA.....	Fresno, Calif	Luebke, James, Educ.....	Corvallis, Ore
Lee, Vernet C, Grad.....	Enumclaw	Lunde, Alfred, Sci.....	Douglas, ND
Lee, Yone Ming, Bus.....	Shanghai	Lundkvist, Lyllis D, Grad.....	Salinas, Calif
Leedy, Virginia, Sci.....	Wenatchee	Lustermann, Marcella, FA.....	Blaine
Leeman, Grace B, FA.....	Seattle	Luther, Nyta R, Grad.....	Helena, Mont
Leeper, Anna E, LA.....	Seattle	Lyle, Kathleen H, Educ.....	Seattle
Lees, Collin W, Grad.....	Kelowna, BC	Lynch, Herbert, LA.....	Yakima
Lefebre, Almee, Educ.....	Seattle	Lynch, Pauline, Educ.....	Los Angeles, Calif
Leik, Mary T, Educ.....	Seattle	Lynn, Austin, LA.....	Seattle
Leike, Helen C, Bus.....	Seattle	Lynn, Catherine E, Sci.....	Steiner, Calif
Leithold, Isabel, LA.....	Woodland, Calif	Lyon, Laura A, Educ.....	Seattle
LeMay, Katherine, LA.....	Allenwater, Ont	Lyons, Margaret A, FA.....	Bay City, Mich
Lemcke, Agnes M, LA.....	Seattle	Lyst, Miriam, Educ.....	Elwood, Ind
Lemire, Gertrude A, Grad.....	Seattle	McAfee, Lucius O, Grad.....	Natchitoches, La
Lenning, William J, LA.....	Fort Benton, Mont	McAleer, F Georgene, Educ.....	Denver, Colo
Leonard, Arthur L, LA.....	Seattle	McAllaster, Marion, Grad.....	Seattle
Leonard, May, Educ.....	Pomeroy	McAnally, Carrie, LA.....	Yakima
Leong, Stephen, LA.....	Portland, Ore	McAssey, Laura J, Educ.....	Seattle
Lermond, Helen, LA.....	Seattle	McAulay, John F, LA.....	Yakima
Lesh, Chester A, Law.....	Seattle	McCabe, Anne R, Sci.....	Wauna, Ore
Leslie, Eleanor M, LA.....	Seattle	McCall, Lillian G, LA.....	Mt Vernon
Lester, Verna M, Grad.....	Miles City, Mont	McCallister, George W, Educ.....	Tulare, Calif
Lever, Carl J, Grad.....	Seattle	McCallum, Bertha R, Educ.....	Turlock, Calif
Levittin, Abe, Engr.....	Seattle	McCann, Ethel M, Educ.....	Lat, Wis
Lewis, Anna V, Grad.....	Green River, Utah	McCarney, Margaret, Grad.....	Seattle
Lewis, Fred E, LA.....	Fairfield	McCarthy, Julia, Educ.....	Seattle
Lewis, Hunter C, Grad.....	Seattle	McCarthy, Marguerite H, Grad.....	Seattle
Lewis, Virginia N, Educ.....	Spokane	McClain, Mary O, LA.....	Kerby, Ore

McClure, Willard, Grad.....	Seattle	McQuesten, Roseanna, Bus.....	Tacoma
McComb, Arthur S, F.A.....	Seattle	McQuillen, Mary F, Grad....	Galveston, Tex
McConaughy, Flora, F.A.....	Seattle	McRae, Florence, Educ.....	Seattle
McConihe, Aimee, Grad.....	Seattle	McReavy, Clare, LA.....	Seattle
McConihe, Ruth N, Grad.....	Seattle	McVay, John F, Sci.....	Seattle
McConnell, Ruth M, Educ.....	Snohomish	Macdonald, Aristelle, FA.....	Seattle
McCorkell, Roberta, Grad.....	Spokane	Macfarlane, Lorna, Grad.....	Seattle
McCorkill, Minnie V, Grad.....	Finchurst	Mackenzie, Jean, Bus.....	Muscatine, Ia
McCormick, Mary, Bus.....	Medical Lake	Mackey, Florence, LA.....	Tacoma
McCormick, Wilbur, LA.....	Seattle	Macomber, Leone Faris, Grad.....	Milan
McCoy, Anna, Educ.....	Onelda, Kan	Madden, Amy Lee, Educ.....	Seattle
McCoy, Newton C, Grad.....	Seattle	Madison, Myrtle Adele, Grad....	Fargo, ND
McCullough, Ada L, LA.....	Seattle	Madison, Lillian, Grad.....	Kent
McCullough, Ella C, Educ.....	Duluth, Minn	Mugaard, Mabel, Educ.....	Seattle
McCullough, Eva B, LA.....	Seattle	Mugee, Mary Edith, Educ,McMinnville, Ore	
McDonald, Basil, LA.....	Lacey	Maginnis, William J, Grad.....	Seattle
McDonald, Beatrice, Educ.....	Seattle	Magnus, Ida Louise, LA.....	Seattle
McDonald, Cecelia, LA.....	Seattle	Mahaffey, Audley F, Grad.....	Monroe
McDonald, Eva B, LA.....	Tacoma	Mahrt, David F, Educ.....	Seattle
McDonald, Frederick A, Sci.....	Seattle	Mahrt, Elsie, LA.....	Reardan
MacDonald, Mary G, F.A. N Vancouver, BC		Major, Georgia E, Sci.....	Seattle
MacDonald Mhora M, F.A. Vancouver, BC		Major, Sidney W, LA.....	Seattle
MacDonald, Rose R, Bus.....	Clear Lake	Mallory, Gladys, Educ.....	Afton, Wyo
MacDonald, Ruth Dougherty, Educ.....	Seattle	Mallory, John C, Educ.....	Afton, Wyo
MacDonald, Verna, Sci.....	Vancouver, BC	Mallough, Helen G, Grad.....	Seattle
MacDonald, Vernon C, Educ.....	Clear Lake	Maloney, Celestia, LA.....	Webster, ND
McEachran, Stanley, LA.....	Tacoma	Manley, Catherine, LA.....	Seattle
McElhiney, Jack B, Educ.....	Bremerton	Manly, Wilna A, Grad.....	Portland, Ore
McEvilla, Katherine, LA.....	Seattle	Mantie, Theodore, Law.....	Seattle
McFarland, Wilma J, LA.....	Modesto, Calif	Mansur, Howard H, Grad.....	Seattle
MacFarlane, Zora, Sci.....	Seattle	Mar, Teh-Chien, Engr.....	Poochow, China
McGee, Letitia, Educ.....	Kansas City, Kan	March, Lindsay J, Grad.....	Dover, Me
McGill, Merrle P, Grad.....	Seattle	Mardon, Hazel, LA.....	Seattle
McGill, Ruth, LA.....	Seattle	Marion, Lucien F, Law.....	Seattle
McGowan, Clara Crotinger, Grad.....	Seattle	Mark, Lee E, Educ.....	Seattle
McGregor, Helen, LA.....	Butte, Mont	Marquis, Ralph W, Grad.....	Bellingham
McGuinness, Charles D, Educ.....	Snohomish	Marsh, Doris V, LA.....	Arlington
McGuire, Grace A, FA.....	Seattle	Marsh, Harold B, LA.....	Seattle
McHale, Katherine, Educ.....	Hibbing, Minn	Marshall, Vera Frances, LA.....	Vancouver, BC
McIlravy, Lowell, Bus.....	Seattle	Marsolais, Doris E, LA.....	Sultan
McIntosh, Elizabeth O, Educ.....	Seattle	Marston, C May, Grad.....	Seattle
McIntosh, Ruth B, LA.....	Bozeman, Mont	Martel, Virginia, LA.....	Seattle
MacIntyre, Jennie A, Grad.....	Tacoma	Martin, Amy E, LA.....	Salem, Ore
MacIver, Myrtle N, LA.....	Jerome, Ida	Martin, Byron L, Sci.....	Spokane
McKay, Elizabeth, LA.....	Pittsburgh, Pa	Martin, W Charles, Sci.....	Seattle
MacKay, L Gertrude, LA.....	Pittsburgh, Pa	Martin, A Fern, LA.....	Phoenix, Ariz
McKay, Helen, Grad.....	Seattle	Martin, Irma L, Grad.....	Spokane
McKay, Mary E, Sci.....	Mabton	Martin, Marion M, LA.....	New York City
McKee, Clarence T, LA.....	Seattle	Martin, Robert Rae, LA.....	Seattle
McKee, Lynne G, Fish.....	Bellingham	Martin, Thelma E, LA.....	Beaver Falls, Pa
McKee, Mary Elizabeth, Grad.....	Seattle	Martin, Trula, Grad.....	Seattle
McKelvey, Muir, Bus.....	Seattle	Martin, Viola E, Educ.....	Spokane
McKelvie, Mary, LA.....	Marshfield, Ore	Martincevic, Patricia, LA.....	Seattle
McKenzie, Earl Lincoln, Educ.....	Seattle	Mason, Ethel G, Sci.....	Castle Rock
MacKenzie, Jean T, Sci, Lethbridge, Alta		Mason, Robert H, Bus.....	Seattle
McKinnell, Eloise, Educ.....	Seattle	Masterton, Robert B, Educ.....	Kamloops, BC
MacKinnon, George H, Grad.....	Seattle	Mather, Archibald J, Grad.....	Seattle
MacKinnon, Kay, LA.....	Seattle	Matheson, Margaret J, LA.....	Glendive, Mont
McLain, Ada B, Grad.....	Spokane	Mathews, Leonice E, LA.....	Seattle
McLaughlin, Mary, Educ.....	Spokane	Matthews, William P, Grad.....	Tacoma
McLaughlin, Maude B, Educ, Walla Walla		Matthewson, Margaret J, Grad.....	Bellingham
McLaughlin, Reva, LA.....	Walla Walla	Mattox, Benjamin F, LA.....	Chehalis
McLellan, Maxine, Grad.....	Seattle	Maurus, Eva, Educ.....	Seattle
McLennan, May, Grad.....	Portland, Ore	Maus, Mildred, Grad.....	Seattle
McLeod, Ella, Educ.....	Eau Claire, Wis	Maus, Ruth M, LA.....	Boise, Ida
McLeran, Grace, LA.....	Seattle	Mayhew, Isabella, Grad.....	White Salmon
McMahan, Rene G, Educ.....	Sedro-Woolley	Mead, Lawrence, Grad.....	Seattle
McManus, Lee, Sci.....	Cashmere	Meador, Florence A, Educ.....	Puyallup
McMartin, Georgiana, Sci.....	Seattle	Meadows, Stanley D, Grad....	Vancouver, BC
McMaster, Maru E, LA.....	Spokane	Meek, Winnie, Educ.....	Post Falls, Ida
McMechan, Iva C, LA.....	Faucett, Mo	Meeks, Ruby, FA.....	Clarkston
McMillan, Clifford R, Engr., Wimbledon, ND		Megown, Rebecca, Grad.....	Sheridan, Wyo
McMillan, George B, Educ., Wimbledon, ND		Mehner, Esther P, Bus.....	Bremerton
McMullin, Glen W, LA.....	Stevensville, Mont	Meidinger, William, Grad.....	College Place
McNabney, Jennie S, FA.....	Seattle	Meighan, Zillah M, Educ.....	Tacoma
McNee, John F, Educ.....	Malby	Menard, Al J, Engr.....	Seattle
McNee, LaVara, Educ.....	Malby	Mendenhall, Clare, Bus.....	Bellingham
McNeely, Bessie, Educ.....	Seattle	Merchant, Jessie, Grad.....	Mt Vernon
McNeill, Nellie F, Grad.....	Tenino	Meredith, Thelma, FA.....	Richland
McNicholas, Mary, Educ.....	Portland, Ore	Meredith, Velma, FA.....	Richland
McNown, Frank L, Grad.....	Basin, Wyo	Merriman, Goldie, Sci.....	Erie, Pa

Mesick, Hilda, Bus.....	Spokane
Metcalfe, Emma, Educ.....	Seattle
Metcalfe, Gordon E, Law.....	Seattle
Mettler, Gordon E, LA.....	Seattle
Metz, Myrtle, LA.....	Post Falls, Ida
Meye, Bertha, Educ.....	Seattle
Meyer, Ida Marie, Educ.....	Roundup, Mont
Meyer, Louise H, LA.....	Tacoma
Meyer, Merle Glavin, LA.....	Seattle
Meyer, Walter C, Grad.....	Seattle
Meyer, Walter T, Educ.....	Ferndale
Meyers, Fred, Bus.....	Seattle
Michelson, Helen A E, Bus.....	Kellogg, Ida
Middaugh, Ellen, LA.....	Seattle
Midgarden, Esther, Educ.....	Seattle
Miesen, Lillian G, Educ.....	Lidgerwood, ND
Mifflin, Emmett, LA.....	Seattle
Miller, Olive C, Educ.....	Seattle
Miller, Cary D, Grad.....	Honolulu, TH
Miller, Carrie Lowry, Educ.....	Seattle
Miller, Dorothy Fay, Bus.....	Seattle
Miller, Edith L, LA.....	Spokane
Miller, Elsie M, LA.....	Seattle
Miller, Ethel L, Educ.....	Seattle
Miller, Helen Edythe, LA.....	Seattle
Miller, Julia E, Educ.....	Wilkeson
Miller, Mattie Snook, Sci.....	Clasma, Pa
Miller, Mervyn B, Grad.....	Seattle
Miller, Paul H, Bus.....	Seattle
Miller, Samuel S, Bus.....	Seattle
Miller, Thomas K, LA.....	Waterville
Miller, Violet, LA.....	Manitowac, Wis
Millican, Jessie E, LA.....	Marysville
Millman, Leonard G, LA.....	Seattle
Millman, Loren H, Grad.....	Seattle
Mills, Elizabeth M, Grad.....	Seattle
Milward, Doris, FA.....	Aloha
Minaker, Cecll W, Bus.....	Seattle
Miner, Edith M, Educ.....	Bellingham
Miner, Eva Lee, Grad.....	Tacoma
Miner, Grace E, Grad.....	Bellingham
Miner, May, LA.....	Spokane
Mines, Gwendolen L, FA.....	Seattle
Minnick, Katherine, Educ.....	Bellingham
Minuth, Anne M, LA.....	Yacolt
Minuth, Gertie E, LA.....	Yacolt
Mitchell, Evelyn, Educ.....	Wheeler
Mitchell, Hazel Louise, FA.....	Spokane
Mitchell, John G, LA.....	Eureka, Cal
Mitchell, Mary Sidney, LA.....	Wheeler
Mitchell, Perry H, Educ.....	Seattle
Moe, Orville O, LA.....	Watford City, ND
Moehring, Esther, FA.....	Snohomish
Moffett, Edith Pauline, Grad.....	Woodinville
Moffitt, David D, Sci.....	Seattle
Moffitt, Solano, Educ.....	Creston
Moller, Helen B, FA.....	Seattle
Moldestad, Howard, LA.....	Seattle
Monday, Sybil, LA.....	Seattle
Monk, E May, Educ.....	Port Orchard
Monsen, Hildur S, LA.....	Seattle
Montag, Adeline, Bus.....	Seattle
Monteski, Gertrude V, LA.....	Minto, ND
Montgomery, Tom, LA.....	Puyallup
Moodhe, Deane H, Grad.....	Wenatchee
Moodhe, Noble S, Grad.....	Spokane
Moody, Gertrude E, LA.....	Seattle
Moore, Bernice S, Grad.....	Seattle
Moore, Helen M, LA.....	Seattle
Moore, John Henry, Educ.....	Seattle
Moore, Katharine, Educ.....	Everett
Moore, Mabel M, Educ.....	Washougal
Moore, Ruth Lora, LA.....	Tacoma
Moore, Ruth M, Educ.....	Blaine
Moran, Lydia W, Educ.....	Gertrude
Morck, Ethel Poole, FA.....	Seattle
Morgan, Coral, Educ.....	Seattle
Morgan, Kathryn, Grad.....	Mackay, Ida
Morgan, Marjorie, Sci.....	Cabarton, Ida
Morgan, Miles E, Grad.....	Seattle
Morrill, Helen, LA.....	Entiat
Morris, Robert A, Sci.....	Seattle
Morrison, Florence, Educ.....	Seattle
Morrison, Harriet Ann, Sci.....	Spokane
Morrison, Marjorie Jean, LA.....	Bellingham
Morrison, Robert R, LA.....	Seattle
Morrow, Thomas L, Engr.....	Tacoma
Morse, Alice N, Educ.....	Kent
Morse, Annie M, Grad.....	Moscow, Ida
Morse, Evelyn, LA.....	Seattle
Morse, Gwen, Educ.....	Rupert, Ida
Morse, Katherine H, Grad.....	Olympia
Morsen, Olga L, Educ.....	Drayton, ND
Moseley, Crowder, Engr.....	Seattle
Moseley, Maud L, Grad.....	Seattle
Mossford, Frances M, Grad.....	Monroe
Mount, James N, Grad.....	Seattle
Mowry, Lavinia, Educ.....	Seattle
Moyer, Jacob, Grad.....	Seattle
Moyer, L H, Engr.....	Olympia
Mueller, Kynda R, Educ.....	Spokane
Mullen, Loda Helen, Educ.....	Tacoma
Mullin, Florence, Educ.....	Minneapolis, Minn
Mullins, Helen Grace, Educ.....	Kansas City, Mo
Mumford, Clarence B, Sci.....	Seattle
Munn, Jane B, Bus.....	Spokane
Munro, J Eddy, LA.....	Seattle
Munson, Ellen C, LA.....	Grandview
Munson, Richard, Educ.....	Seattle
Murdock, Forrest G, Grad.....	Hoquiam
Murdock, Mary, Bus.....	Seattle
Murland, Helen A, Grad.....	Tacoma
Murphy, Mary S, Educ.....	Seattle
Murphy, Rose, Sci.....	New Westminster, BC
Murray, T Dennis, Bus.....	Seattle
Murray, Ethel Frances, Educ.....	San Francisco, Calif
Murray, Hazel C, Grad.....	Oakland, Calif
Murray, Hazel K, Grad.....	Clallam Bay
Murray, Jesse W, Bus.....	Omak
Murray, Luella, Educ.....	Oakland, Calif
Murray, Mildred, Educ.....	Seattle
Mutch, Jean E, Sci.....	Canada
Myers, Carlyle G, Sci.....	Seattle
Myers, Kenneth G, Bus.....	Seattle
Myers, Mary Lou, Educ.....	Portland, Ore
Myhra, Mabel C, Educ.....	Spokane
Nadeau, Flora Louise, Grad.....	Seattle
Nagel, Julius A, LA.....	Maupin, Ore
Nagel, Mary S, LA.....	Seattle
Nagley, Hazel, FA.....	Seattle
Nagley, John H, Educ.....	Olympia
Nakagawa, Yoriaki, LA.....	Seattle
Nakasako, Kazu, FA.....	Kyoto, Japan
Nakata, Masaji, LA.....	Bothell
Nash, Lulu Mason, Grad.....	Spokane
Nash, William W, LA.....	Tieton
Nau, Thomas P, Bus.....	Seattle
Navarro, Enrique P, LA.....	Philippines
Naylor, A McCune, LA.....	Callistoga, Calif
Neal, Marguerite, LA.....	Seattle
Neal, Richard K, LA.....	Seattle
Neale, Mary Ellen, Educ.....	Hillsboro, Wis
Near, Maxine, Sci.....	Seattle
Nelkirk, Claire E, LA.....	Seattle
Nell, Richard L, Sci.....	Seattle
Nell, William James, LA.....	Seattle
Nelmann, Amelia, Educ.....	Chehalis
Nelle, Pauline, FA.....	Bloomington, Ill
Nelson, Earl J, Bus.....	Seattle
Nelson, Esther Olive, Grad.....	Mt Vernon
Nelson, Ethel R, Grad.....	Anacortes
Nelson, Genevieve, Educ.....	Mt Vernon
Nelson, Gerda, Educ.....	Kalama
Nelson, Helen Clare, LA.....	Seattle
Nelson, Hulda, Sci.....	Lynden
Nelson, Ivan, Educ.....	Wapato
Nelson, Jeannette Helene, Sci.....	Seattle
Nelson, Mary C, Sci.....	Coeur d'Alene, Ida
Nelson, Mildred E, FA.....	Seattle
Nelson, Olga A, Sci.....	Wenatchee
Nelson, Sarah E, LA.....	Fairmount, ND

Ness, Dorthle, Sci.....Wapato
 Nettleton, Marie, Educ.....Seattle
 Neville, Betty, Grad.....Walville, Wis
 Nevitt, Violet T, Grad.....Raymond
 New, Edward, Grad.....Gig Harbor
 Newby, Cecil D, LA.....Sardis, BC
 Newman, Mabel E, LA.....Seattle
 Nichols, Adelaide, Educ.....Seattle
 Nichols, Iva V, Sci.....Seattle
 Nichols, Jane, LA.....Seattle
 Nichols, Raymond H, Fish.....Tacoma
 Nichols, Ruble J, LA.....Wapato
 Nicholson, Dorothy, Educ.....Salem, Ore
 Nicholson, Louise, LA.....Vancouver, Wn
 Nicholson, Walter A, Engr.....Seattle
 Nicholson, Walter, LA.....Vancouver, Wn
 Nickell, George T, LA.....Seattle
 Nielder, Dave L, LA.....Seattle
 Nielson, Alma, FA.....Seattle
 Nims, Leslie F, LA.....Rexburg, Ida
 Nisley, Marla Anne, LA.....Centralia
 Nix, Martha J, Grad.....Dresden, Tenn
 Noland, Hermia, LA.....Walla Walla
 Nordquist, Elsie, LA.....Seattle
 Norfolk, Genevieve, Grad.....Spokane
 Norie, James L, Jr, Grad.....Seattle
 Norquist, Mary, Educ.....Duluth, Minn
 Norris, Anne, LA.....Bow
 North, Stella M, LA.....Walla Walla
 Nudd, Barbara E, LA.....Seattle
 Nunn, Florence, LA.....Kiddler, Mo
 Nylen, Donald, LA.....Ellensburg
 Nyzman, Rose, FA.....Seattle

Packenham, Howard E, Grad...Boise, Ida
 Page, Neva, Educ.....Billings, Mont
 Page, Tressa A, LA.....Billings, Mont
 Pair, Paul M, Grad.....Prosser
 Pallas, Margaretha, Educ.....Mukilteo
 Palmer, J Lee, LA.....Spokane
 Palmer, Lester, Bus.....Everett
 Palmer, Martha, LA.....Spokane
 Palo, Rosa W, LA.....Tacoma
 Pannell, Shirley, FA.....Seattle
 Pantaleone, J, LA.....Seattle
 Park, Howard, Engr.....Seattle
 Park, A Tyndall, LA.....Outlook
 Parke, Charles G, Grad.....Seattle
 Parker, Alfred, Edu.....Conrad, Mont
 Parker, Mabel, Educ.....Great Falls, Mont
 Parkins, Alice E, Educ.....Seattle
 Parsell, Eva I, Educ.....Seattle
 Pascoe, Myra, Grad.....Seattle
 Pashley, Harry B, Engr.....Seattle
 Patch, Esther A, Sci.....Beach
 Patchett, Ben F, Bus.....Ellensburg
 Paton, Harold C, Educ.....Seattle
 Patric, Dorothy, LA.....Snohomish
 Patrie, Walter F, Bus.....Seattle
 Patten, Lawton M, FA.....Seattle
 Patterson, Bertha P, LA.....Seattle
 Patzer, Sidney, LA.....Seattle
 Patzold, Oswald, FA.....Seattle
 Paxton, Robert, LA.....Seattle
 Payne, Byron, Educ.....Snohomish
 Payne, George W, Educ.....Dayton, Ore
 Paysse, Doris, FA.....Seattle
 Pearsall, Deborah, Grad.....Seattle
 Pearson, Anna, Educ.....Payette, Ida
 Pearson, Ben J, Engr.....Seattle
 Penslee, Emille S, Grad.....Seattle
 Pebbles, Helen E, Educ.....Fall City
 Pecar, Alma M, Grad.....Kennewick
 Pederson, Thora, Educ.....Junction City, Ore
 Piffley, Harriette, LA.....Seattle
 Pegg, Harold Jay, Grad.....Bloomsburg, Pa
 Pellegrini, Frank A, Law.....Seattle
 Pels, Freda E, Grad.....Seattle
 Penewell, Marlon F, Grad.....Seattle
 Pennell, Geneva B, Grad.....Seattle
 Penrod, J Durant, Sci.....Seattle
 Penrose, Mary S, FA.....Elgin, Ill
 Penwell, May G, Educ.....Seattle
 Pepper, N Kathryn, LA.....Seattle
 Percival, Dorothy, Educ.....Seattle
 Perkins, Dorris Ellen, Grad.....Seattle
 Perkins, Theda D, LA.....Seattle
 Perry, Alvena D, LA.....Port Orchard
 Perry, Corinna E, FA.....Jamestown, ND
 Perry, Marjorie, Grad...Indianapolis, Ind
 Perry, Mary Agnes, Grad.....Everson
 Person, Henry A, LA.....Tacoma
 Peters, J Franklin, Educ.....Freeborn, Minn
 Peters, Henry W, Grad.....Tonasket
 Peterson, C Anabel, FA.....Seattle
 Peterson, Arthur G, LA.....San Diego, Calif
 Peterson, Carrie H, Grad.....Wardner, Ida
 Peterson, Estella C, Sci.....Seattle
 Peterson, Fielding B, Educ.....Smoot, Wyo
 Peterson, Huldah E, LA.....Seattle
 Peterson, Martin, LA.....Manchester
 Peterson, Selmer, Grad.....Chewelah
 Peterson, Signe M, LA.....Spokane
 Peterson, Sigurd H, Grad...Corvallis, Ore
 Peterson, Sophie, LA.....Seattle
 Peterson, Thelma B, Grad.....Granger
 Petkovits, Xenia, LA.....Seattle
 Pettengill, George F, Grad...Corvallis, Ore
 Pfaff, L Dale, LA.....Bothell
 Pfeifer, Herman, JA.....Harrington
 Phelps, Frances B, LA...Mill Valley, Calif
 Phillippl, Herbert, Grad.....Bellingham
 Phillips, Audrey, Educ.....Nampa, Ida
 Phillips, Harrison N, Grad.....Buckley
 Phillips, Irene B, Educ.....Montesano

O'Brien, Hazel B, LA.....Sequim
 O'Brien, Mary A, Grad.....BR Falls, Wis
 O'Brien, Mary H, LA.....Chicago, Ill
 O'Day, Helen, Educ.....Adrian, Minn
 Odegaard, Leonard, Educ.....Spokane
 Odell, Olive J, Educ.....Clinton, Mich
 Odell, Ruth M, Educ.....Spokane
 Odgers, George Allen, Grad.....Davenport
 Ogilvie, Edith J, Educ.....Everett
 O'Hara, William James, Educ...Fargo, ND
 Okada, Richi, Engr.....Japan
 Okazaki, Iwao Robert, LA.....Seattle
 Olcott, Virginia, Sci.....Red Lodge, Mont
 O'Leary, Alice, LA.....Seattle
 Oleson, Cora, LA.....Spokane
 Olsson, Mabel H, LA.....Tacoma
 Olin, Erna E, Grad.....Bothell
 Olin, Merle M, Educ.....Bothell
 Oliver, Egbert S, Educ.....Seattle
 Oliver, F L, LA.....Monroe
 O'Loughlin, Mary, LA.....Mt Vernon
 Olsen, Karine, Educ.....Renton
 Olsen, Myrtle, LA.....Renton
 Olson, Alma Marie, Grad.....Pasco
 Olson, Alvin C, LA.....Seattle
 Olson, Avary H, Sci.....Stevenson
 Olson, Earl S, Engr.....Seattle
 Olson, Florence C, FA.....Bothell
 Olson, Gladys J, FA.....Auburn
 Olson, Mary, Grad.....Denver, Colo
 Olson, Olaf E, Grad.....Douglas, Alaska
 O'Neill, Aileen, Educ.....O'Neill, Mont
 Opstad, Edwin R, Educ.....Blaine
 O'Reilly, Edward T, LA.....Glendale, Ariz
 O'Reilly, Elizabeth, Educ.....Glendale, Ariz
 Orford, Gladys, LA.....Tacoma
 Ortmann, Ruth, Educ.....Ellensburg
 Osfield, Ada, Sci.....Seattle
 Osgood, Robert S, Grad.....Walla Walla
 Osten, Winnifred, LA.....Seattle
 Oswald, Elizabeth, LA.....Everett
 Overby, Edna, LA.....Aberdeen, SD
 Overby, May, LA.....Aberdeen, SD
 Overby, Vesta B, LA.....Pasco
 Owen, Nellie Mc, Grad...Couer d'Alene, Ida
 Owen, Roy M, Educ.....Centralia

- Phillips, Lucy A, Grad....Springville, Utah
 Phillips, Mary H, LA.....Seattle
 Phillips, May A, LA.....Seattle
 Phipps, Edson G, Bus.....Mt Vernon
 Phipps, Frank A, Grad.....Kent
 Pickard, Ward L, LA.....Seattle
 Pickrell, Evelyn A, Grad.....Spokane
 Pidduck, Marjorie, Grad.....Seattle
 Pierron, Richard P, LA.....Bellingham
 Pilkington, Phyllis, LA.....Portland, Ore
 Piper, Lily, Educ.....Nonaimo, BC
 Place, Lester H, Mines.....Seattle
 Plamondon, Virginia, FA.....Seattle
 Plank, Faye, Grad.....Seattle
 Platt, Ruth E, Grad.....Seattle
 Plovhead, Ruth, LA.....Caldwell, Ida
 Poland, Arthur M, LA.....Sumner
 Pool, Stephen, Sci.....Phoenix, Ariz
 Pool, William F, Grad.....Fall City
 Poole, Bonnie L, Grad.....Seattle
 Poole, Florence A, Grad.....Seattle
 Poole, Jessie L, Grad.....Seattle
 Poolly, Ward S, LA.....Coulee
 Pope, Jessie M, LA.....Bellingham
 Porter, Lillian R, LA.....Yakima
 Portman, Frieda, Grad.....Aberdeen
 Posey, Naomi M, Educ.....Millwood
 Post, Anna L, Sci.....Tacoma
 Post, Edith, Grad.....Seattle
 Potter, Lois C, Sci.....Bremerton
 Potter, Ruth A, Sci.....Seattle
 Potts, Cella, Educ.....Missoula, Mont
 Potts, Edward L, LA.....Seattle
 Pounds, Viola D, LA.....Dayton
 Powell, Afton E, FA.....Seattle
 Powell, Josephine, LA.....Chehalis
 Power, George R, LA.....Seattle
 Powers, Francis F, Grad.....Tacoma
 Poyhonen, Warner, Educ.....Winlock
 Poynner, Almeda M, Grad.....Everett
 Pribble, Mary E, LA.....Anoka, Minn
 Price, Annie J, LA.....Hereford, Tex
 Price, Lillian, Bus.....Lynden
 Price, M May, LA.....Seattle
 Price, Rebecca A, LA.....Vale, Ore
 Priem, Virginia, Sci.....Seattle
 Prigge, Dora A, Educ.....Ada, Minn
 Prince, Pansy, Educ.....Burlingame, Calif
 Pritchard, Ernest H, LA.....Renton
 Proctor, Mildred I, Grad.....Nampa, Ida
 Proulx, Bernadette, Educ.....Spokane
 Puckett, Carl E, Educ.....Lumby, BC
 Puckett, Ethel E, LA.....Vancouver
 Pugh, Anne C, Grad.....Seattle
 Pugh, Louise K, Grad.....Seattle
 Pugsley, Frances, Sci.....Yelm
 Pugsley, Harriet, Grad.....Seattle
 Purcell, Denis J, Sci.....Lacey
 Purves, Neil H, Educ.....Seattle
 Putnam, Gertrude E, LA.....Alderwood Manor
 Ryle, Francis J, Educ.....South Bend, Ind
- Quam, Ellen, Educ.....Bellingham
 Queen, John, Grad.....Silver Cabie
 Quigley, Dorothy M, LA.....Seattle
 Quigley, Edwin H, Educ.....Elma
 Quigley, Mary J, Educ.....Seattle
 Quist, Mrs P A, Educ.....Napavine
- Raban, Adelyne F, LA.....Seattle
 Radin, Carl, Engr.....Seattle
 Rae, Esther, LA.....Coeur d'Alene, Ida
 Rae, Helen, FA.....Coeur d'Alene, Ida
 Rae, John J, Grad.....Coeur d'Alene, Ida
 Rairdon, Edward E, Educ.....Bellingham
 Rait, Mary, Grad.....Pallada, Colo
 Raitt, Janet M, Sci.....Pasadena, Calif
 Ralls, Roberta, LA.....Seattle
 Ralston, Catharine, Educ.....Port Angeles
- Rambo, Lena, Educ.....Davenport
 Ramstedt, Mary, LA.....Wallace, Ida
 Randall, Arthur, Bus.....Seattle
 Randall, Della, LA.....Seattle
 Randall, May, Grad.....Chehalis
 Rapp, Mary Elizabeth, LA.....Spokane
 Rasmussen, Emma M, Educ.....Junc City, Ore
 Rathbun, Janet O, Educ.....Hamilton, Mont
 Raw, Ruth M, Grad.....Akron, Ohio
 Rawlings, Emily, LA.....Houston, Texas
 Ray, Verne F, LA.....Seattle
 Raymond, Gertrude, Grad.....Seattle
 Reading, Jennie L, LA.....Seattle
 Redden, Dan, Bus.....Clarkston
 Redman, Crosby E, Grad.....Seattle
 Redmond, Ruth L, LA.....Snohomish
 Reed, Elizabeth M, Grad.....Seattle
 Reed, Emily S, Sci.....Seattle
 Reed, Jennie M, Grad.....Tacoma
 Reed, Paul M, Grad.....Walla Walla
 Reed, Ruth, Bus.....Redmond
 Rees, Florence M, Grad.....Waitsburg
 Reese, Marie, Educ.....Startup
 Reichert, Marguerite, Sci.....Seattle
 Reilly, John E, Law.....Seattle
 Reinhart, Madeline C, LA.....Portland, Ore
 Reinke, Christine, LA.....Bothell
 Reise, Herman A, Engr.....Fuyallup
 Remley, Miriam, Grad.....Dryden
 Renshaw, Edith I, FA.....Spokane
 Renshaw, Minard R, Sci.....Wenatchee
 Rice, Charles M, FA.....Everett
 Richards, Eugene, Sci.....Seattle
 Richards, Iva L, Educ.....Salt Lake City, Ut
 Richards, Verna J, LA.....Roswell, NM
 Richardson, Ethel M, LA.....Seattle
 Richardson, Vera C, LA.....Tacoma
 Riches, Doris E, Bus.....Seattle
 Richman, Ethel H, Sci.....Anchorage, Alas
 Rickel, Ruth, LA.....Spokane
 Ridley, Elise W, Grad.....Seattle
 Rielse, Stella G, LA.....Duvall
 Riggs, Janet W, LA.....Evanston, Wyo
 Riley, Betty, Educ.....Bellingham
 Risk, Lee, Bus.....Seattle
 Riss, Arthur H, Grad.....Seattle
 Riste, Donald E, LA.....Seattle
- Riste, Victor, LA.....Onalaska
 Rivers, Ralph J, Law.....Fairbanks, Alas
 Roaney, Marland B, Grad.....Bellingham
 Robarge, Edmoro A, Educ.....Buffalo, Minn
 Robbins, C J, Grad.....Santa Barbara, Calif
 Robbins, Franc, LA.....Buffalo, Wyo
 Robe, Cecil F, Grad.....Seattle
 Roberts, Beatrice, LA.....Spokane
 Roberts, Helen B, Educ.....Tacoma
 Roberts, Ina S, LA.....Butte, Mont
 Roberts, Mary O, Sci.....Yakima
 Roberts, Myrtle, LA.....Seattle
 Robertson, Joycelin, LA.....Lakeview, Ore
 Robin, Frederick H, LA.....Seattle
 Robin, Lyla J, Educ.....Bellingham
 Robinson, Alice L, LA.....Edmonton, Alta
 Robinson, Clyde A, LA.....Pinehurst
 Robinson, Edward C, Educ.....Bellingham
 Robinson, Wallace, For.....Seattle
 Robinson, B B, Educ.....Bellingham
 Robison, Cloyd L, LA.....Rainier, Ore
 Rock, Estella C, FA.....Seattle
 Rock, Jean S, Educ.....Seattle
 Rockhill, Luella, Educ.....Dayton
 Rodell, Lucretia, Bus.....Seattle
 Roeder, Esther M, Educ.....Ridgefield
 Roemer, A J, Grad.....Seattle
 Rogers, Eleth A, Grad.....Bellingham
 Rogers, Ellis H, Educ.....Tacoma
 Rogers, Garnet, Educ.....Seattle
 Rogers, Josephine T, Educ.....Spokane
 Rogers, Mary B, Educ.....Kansas City, Mo
 Rogers, Russell, Bus.....Spokane
 Rogers, Vivian, Educ.....Spokane

Rognan, Esther, Grad.....Seattle
 Rogozina, Raisa A, LA.....Harbin, China
 Rohrer, Esther J, Grad.....Aberdeen
 Rolsham, Rachel M, Educ.....Attalla
 Rorabough, F M, Educ.....Santa Ana, Calif
 Rose, Jean, LA.....Seattle
 Rose, Frances D, Educ.....Fairmont, W Va
 Rose, Guy S, Educ.....Everett
 Ross, James H, Educ.....Toledo, Ore
 Roth, Edna I, Grad.....Edmonton, Alta
 Roth, Martha, Educ.....Lewiston, Ida
 Roundtree, Bernice, Educ.....Ceres
 Rousch, Minnie A, Educ.....Palestine, Ill
 Rouse, Ruby F, Educ.....Seattle
 Rowell, Irving H, Engr.....Seattle
 Rowlands, T McKee, Engr.....Seattle
 Rowlee, Frank M, Grad.....Seattle
 Rucker, Gladys, Grad.....Seattle
 Rucker, Jasper L, Law.....Everett
 Ruckles, Dee, LA.....Kalama
 Ruddy, Gladys, LA.....Butte, Mont
 Rudolph, A George, Educ.....Ollie, Mont
 Rne, John L, Educ.....Seattle
 Ruff, Frank J, LA.....Seattle
 Rumburg, Cecil P, Educ.....Malden
 Rundlett, Clara E, Educ.....Cromwell, Iowa
 Rush, Clara E, FA.....Seattle
 Rush, R H, Educ.....Houston, Texas
 Russell, France, LA.....Butte, Mont
 Russell, Carrie T, Bus.....Livingston, Mont
 Russell, Florence M, Grad.....Seattle
 Russell, John B, Educ.....Orting
 Russell, Lella M, Educ.....Tacoma
 Russell, Pearl E, Grad.....Seattle
 Russell, Roy N, Bus.....Chewelah
 Rutledge, Ralph M, Grad.....Logan, Utah
 Rutledge, Ruth L, Sci.....Logan, Utah
 Ruttman, Jessie L, Educ.....Marshall, Ill
 Ryan, Florence I, Grad.....Seattle
 Ryan, Frank E, LA.....Seattle
 Ryan, Helen T, Sci.....Seattle
 Rynning, Emma J, Educ.....Tacoma

Sackett, Nona E, Grad.....Billings, Mont
 Sackett, Percy, Bus.....Seattle
 Sadler, Estella, Grad.....Seattle
 Sagen, Ingeborg, Educ.....Stanwood
 Salger, Louise M, Educ.....Chehalis
 Salstrom, Edward J, Grad.....Kelso
 Salverson, Elidia A, Educ.....Seattle
 Salverson, Rena E, Educ.....Ortonville, Minn
 Sample, Sara E, Educ.....Roslyn
 Sandall, Inez Fae, Educ.....Spokane
 Sanden, Arthur G, Grad.....Bellingham
 Sanders, Carrie, Grad.....Easton
 Sandmeyer, Helen J, Educ.....Buhl, Ida
 Sandner, Lucille, Sci.....Tacoma
 Sandvigen, Ingval A, LA.....Seattle
 Sanford, Helen R, Grad.....Seattle
 Sanford, Henry S, Bus.....Seattle
 Sanger, Fairy, Grad.....Payette, Ida
 Sater, Gertrude P, Grad.....Seattle
 Sather, Esther R, Educ.....Mt Vernon
 Sather, N Kenneth, LA.....Mt Vernon
 Satre, Alice, Grad.....Snohomish
 Savage, George M, LA.....Tacoma
 Savage, Margaret E, LA.....Tacoma
 Sawyer, Dalza, LA.....Tacoma
 Sbedico, Ida J, FA.....Seattle
 Scallon, Agnes, Sci.....Anaconda, Mont
 Scanzon, Anna V, LA.....Seattle
 Schatz, Clarence R, LA.....Seattle
 Scheffer, Theodore C, Grad.....Puyallup
 Scheffer, Victor, Sci.....Puyallup
 Schertel, Max, Grad.....Seattle
 Schilling, Hallie G, Educ.....Tulare, Calif
 Schlipplin, Louise E, LA.....Seattle
 Schlerman, Mary, Educ.....Seattle
 Schlossstein, Clifford F, Law.....Yakima
 Schmid, Byron C, Grad.....Seattle
 Schmid, Calvin F, Grad.....Seattle
 Schmidt, Dorothy, LA.....Edmonds
 Schmidt, Paul F, Educ.....Astoria, Ore
 Schmitt, Mildred Mary, Grad.....Seattle
 Schneider, Robert J, Bus.....Seattle
 Schunelle, Lydia A, LA.....Puyallup
 Schoenborn, Mary E, Grad.....Dillon, Mont
 Schofield, Gwendolyn, Grad.....Seattle
 Schofield, Marguerite, Grad.....Seattle
 Scholl, Miriam, LA.....Seattle
 Schomber, Minnie W, Educ.....Issaquah
 Schonard, Helen, LA.....Seattle
 Schroeder, Hazel, LA.....Erie, ND
 Schrank, Gertrude, Educ.....Brownsville, Ore
 Schuh, LeRoy C, Educ.....Everett
 Schuler, Sara E, Sci.....Seattle
 Schultheis, Frederick D, LA.....Seattle
 Schultz, Freda, FA.....Seattle
 Scott, Beulah, Educ.....Bellingham
 Scott, Elizabeth L, Sci.....Seattle
 Scott, Ellen L, Grad.....Hudson, Ohio
 Scott, Frances, Grad.....Seattle
 Scott, Geraldine E, LA.....Spokane
 Scott, Lucille, Sci.....Tacoma
 Scott, Lydia F, Grad.....Idaho Falls, Ida
 Scott, Robert W, Grad.....Vancouver
 Scoville, June I, LA.....Seattle
 Searls, Helen E, LA.....Seattle
 Sedgwick, Phoebe, LA.....Springfield, Mo
 Selgeid, Orville J, Grad.....Burlington
 Selvidge, Lewis, LA.....Olympia
 Senft, Blanche, Educ.....Sandpoint, Ida
 Sennes, Gertrude J, Grad.....Tacoma
 Serier, Edith A, LA.....Kennewick
 Sey, Harriet A, LA.....Douglas, Alas
 Seymore, Phyllis C, Educ.....Seattle
 Seymour, Keith M, Grad.....Seattle
 Seymour, Mary L, Educ.....Ottumwa, Ia
 Shackelford, Lewis, Sci.....Seattle
 Shafer, Lulu, Educ.....Seattle
 Shaffer, Clarence A.....Camas
 Shaffer, Florence, Grad.....Yakima
 Shaffner, Mary M, Sci.....Seattle
 Shanahan, Daniel J, LA.....Seattle
 Shanahan, Margaret E, Educ.....Snohomish
 Shane, Marion L, Grad.....Ensign, Mich
 Sharnbroch, Mildred L, LA.....Port Angeles
 Sharp, Mary C, Grad.....Seattle
 Shave, Ethel, Grad.....Everett
 Shaw, Anna, Educ.....Boise, Ida
 Shaw, Anna B, Grad.....Seattle
 Shaw, Clayton B, Grad.....Spokane
 Shaw, Donald L, Grad.....Vancouver, BC
 Shaw, Gretchen, Grad.....Seattle
 Shaw, Harry A, Jr, Grad.....Seattle
 Shaw, J Maurice, FA.....Seattle
 Shaw, Reine L, Educ.....Seattle
 Shearer, Florence M, Sci.....Auburn
 Sheeder, Ruth E, FA.....Seattle
 Sheeley, Glenn D, LA.....Hoquiam
 Shellenberger, John A, Sci.....Seattle
 Shelton, Arthur L, Grad.....Seattle
 Shephard, Elizabeth M, Sci.....Wenatchee
 Shephard, Rachel, LA.....Davenport
 Shephard, Anna M, Educ.....Seattle
 Sheppard, Arlice M, LA.....Kennewick
 Sheridan, Helen C, Grad.....Spokane
 Sherk, Elnor L, LA.....Roseburg, Ore
 Sherman, Winifred C, LA.....Cheney
 Sherwood, Winifred, Grad.....Willman, Minn
 Shibata, Welly T, LA.....Spokane
 Shidler, Edwin W, Grad.....Seattle
 Shields, Maryellen, LA.....Watertown, SD
 Shields, Roy S, Grad.....New Westminster, BC
 Shipley, Dorothy, Educ.....Seattle
 Shipton, Ethel, Educ.....Madison, SD
 Shirk, Grace A, LA.....Seattle
 Sholder, Kathryn, Educ.....Pateros
 Sholund, Doris M, LA.....Colville
 Shong, Luella L, Educ.....Seattle
 Showalter, Lillian, LA.....Seattle

Shultz, Cella B, Grad.....	Aberdeen	Smith, Courtney M, Sci.....	Everett
Sicade, Sarah B, FA.....	Tacoma	Smith, Edith R, Educ.....	Tacoma
Siderfin, Dorothy, LA.....	Butte, Mont	Smith, L Emmett, LA.....	Snohomish
Sielk, William H, Grad.....	Auburn	Smith, Ethel B, Grad.....	Vancouver
Sievers, Esther E, Educ.....	Marion, Kan	Smith, Frances E, FA.....	Seattle
Siggelko, Marguerite A, LA.....	Seattle	Smith, Gail W, Grad.....	Seattle
Silver, Judith, FA.....	Seattle	Smith, George M, Grad.....	Seattle
Silverglade, Alexander X, Sci.....	Centralla	Smith, Henry B, LA.....	New Westminster, BC
Silvers, Josephine, Grad.....	Mt Vernon	Smith, Herman F, Educ.....	Seattle
Sim, Ida Grace, Sci.....	Wilkeson	Smith, Herndon, Grad.....	Seattle
Simon, Henrietta, LA.....	Seattle	Smith, Josephine, LA.....	Hoquiam
Simpson, Elizabeth, LA.....	Selah	Smith, L Laurette, FA.....	Whittier, Calif
Simpson, John W, Grad.....	South Bend	Smith, Leota B, LA.....	Portland, Ore
Simpson, Lurline V, Grad.....	Seattle	Smith, Marlan A, Sci.....	Lakeview
Sister Anna Foley, Sci.....	Seattle	Smith, Martha E, LA.....	Seattle
Sister Dolores Pittendrigh, FA.....	Seattle	Smith, Norman C, LA.....	Cleveland, Ohio
Sister Dorothy Lentz, FA.....	Moxxe City	Smith, F Richmond, Bus.....	Seattle
Sister Elizabeth Clare, Educ.....	Seattle	Smith, Rosa L, Grad.....	Nampa, Ida
Sister Esther Mary, Educ.....	Seattle	Smith, Ruth M, FA.....	Missoula, Mont
Sister Gabriel Ryan, Educ.....	Seattle	Smith, T Stewart, FA.....	Courtney, BC
Sister Genevieve Goucher, Sci.....	Seattle	Smith, Thomas, Jr, LA.....	Mt Vernon
Sr Magdalene of Prov, Sci. Missoula, Mont		Smith, Thomas S, Educ.....	Cheney
Sister Mary Agnella, Grad.....	Seattle	Smith, Virginia M, LA.....	Seattle
Sister Mary Alexander, Grad.....	Seattle	Snider, Gertrude, LA.....	Seattle
Sister M Ambrosia, LA.....	Seattle	Snidov, Beulah, Sci.....	Willamette, Ore
Sister Mary Andrea, LA.....	Yakima	Snyder, Harold C, Grad.....	Vashon
Sister Mary Antonella, Grad.....	Seattle	Snyder, Howard, LA.....	Everett
Sister Mary Aquin, LA.....	Seattle	Snyder, James L, Sci.....	Seattle
Sister M Coelline, FA.....	Colfax	Snyder, Juanita J, Educ.....	Hoquiam
Sister Mary Clementia, LA.....	Seattle	So, Hung Shu, LA.....	Canton, China
Sister Mary Clementine, LA.....	Seattle	Somers, Aileen, FA.....	Tacoma
Sister Mary Dolores, Grad.....	Seattle	Somers, Loera, Educ.....	Opportunity
Sister Mary DePaul, LA.....	Seattle	Sorensen, Cathrine, Sci.....	Highland Park, Ill
Sister Mary Edwaine, Grad.....	Tacoma	Sorensen, Harold, Bus.....	Los Angeles, Calif
Sister Mary Ethelind, Grad.....	Spokane	Sorensen, Harry D, Grad.....	Charleston
Sister Mary Floretta, Grad.....	Seattle	Sorensen, Hazel J, LA.....	Kittitas
Sister Mary Frances Clare, Grad.....	Seattle	Sossaman, Aurella, LA.....	Seattle
Sister Mary Frances, FA.....	Seattle	Soth, J Tom, LA.....	Kennewick
Sister Mary Eulalia Teresa, Educ.....	Seattle	Soule, Elizabeth S, Grad.....	Mantla Lake
Sister M Francesca Zoeller, FA.....	Spokane	Southard, Edna L, Educ.....	Seattle
Sister Mary Gabriel, Educ.....	Seattle	Sower, Marjorie, FA.....	Caldwell, Ida
Sister Mary Hyacinth, LA.....	Seattle	Spankie, Donald F, Bus.....	Vancouver, BC
Sister Mary Josepha, Grad.....	Tacoma	Spawn, James L, Educ.....	Bellingham
Sister Mary Josephine, Grad.....	Tacoma	Spencer, Florence G, Educ.....	Blaire
Sister Mary Leonella Bolt, Grad.....	Seattle	Sperlin, Otis B, Grad.....	Moran School
Sister M Loretta Gately, Grad.....	Seattle	Spillers, Curtis W, LA.....	Monroe
Sr M Margaret of St Dominic, Educ. Seattle		Sprague, Grace R, LA.....	Colville
Sister M Kathleen Mangan, Educ.....	Yakima	Sprague, Harry L, Bus.....	Colville
Sister M Lamberta Fasbender, FA.....	Seattle	Springer, Jack L, LA.....	Upland, Calif
Sister Mary Louise, Grad.....	Seattle	Stacey, Daisy, LA.....	Birmingham, Ala
Sister Mary Lourina, Grad.....	Bellingham	Stackpole, Mary, Educ.....	Seattle
Sister Mary Margaret, Grad.....	Tacoma	Staff, Mildred, Educ.....	Spokane
Sister Mary Michael, Grad.....	Tacoma	Stafford, Elizabeth, LA.....	Seattle
Sister Mary Olivia, Grad.....	Portland, Ore	Stark, Inez, LA.....	Eugene, Ore
Sister Mary Patrick, Grad.....	Seattle	Stark, Jeannette, LA.....	Seattle
Sister M Pauline, LA.....	Centralla	Starr, Mary Elizabeth, Sci.....	Seattle
Sister M Regina, FA.....	Bozeman, Mont	St. Clair, Virginia W, LA.....	Seattle
Sr M Rose de Lima, Educ.....	Everett	Stead, George A, Grad.....	Anacortes
Sister M Theresa, Grad.....	Portland, Ore	Stead, Isabel, Educ.....	Seattle
Sister M Vera Buss, FA.....	Blackfoot, Ida	Stearns, Hermance, LA.....	Walla Walla
Sister M Veronica of Milan, Educ.....	Seattle	Steed, Mable, Educ.....	Deming, NM
Sister M Margaret Moriarty, LA.....	Seattle	Steele, Fannette, LA.....	Madison, SD
Sjoberg, Helen M, Educ.....	Sidney, Mont	Steele, Frances, LA.....	Madison, SD
Skagen, Cora J, Sci.....	Kent	Steele, Helen M, LA.....	Seattle
Skalley, Nan S, Educ.....	Everett	Steele, Susan E, Sci.....	Sedro-Woolley
Skeen, Ruby R, Grad.....	Colfax	Steen, Ralph A, Sci.....	Fullerton, Calif
Skeewis, Mary A, Grad.....	Tacoma	Steinhauer, Mildred R, LA.....	Seattle
Skibness, Marie B, Educ.....	Tacoma	Steinke, Elma L, Educ.....	St John
Skinner, Julia, Educ.....	Topeka, Kan	Steinman, Rose G, LA.....	Seattle
Slaby, Millicent, Educ.....	Seattle	Stentzel, Lena, Educ.....	Colfax
Sletten, Mabel, Educ.....	Souris, ND	Sterling, Adah, LA.....	Newcastle
Slick, Opal M, Sci.....	Seattle	Stevens, Belle A, Grad.....	Malthy
Sloan, Florence, Educ.....	Seattle	Stevens, Catherine, LA.....	Seattle
Sloan, Loren, FA.....	Caldwell, Ida	Stevens, Frances, LA.....	Caldwell, Ida
Small, Ellnor, LA.....	Everett	Stevenson, Hector, LA.....	Hobson, Mont
Smetheram, F Edwin, Grad.....	Spokane	Stewart, Daisy, Sci.....	Tacoma
Smith, Arthur W, LA.....	Spokane	Stewart, Edgar, Grad.....	Seattle
Smith, Austen J, Engr.....	Seattle	Stewart, Elizabeth B, LA.....	Seattle
Smith, Charlotte B, Jour.....	Wenatchee	Stickney, Amy D, Grad.....	Bothell
Smith, Charlotte R, Educ.....	Tulsa, Okla	Stickney, Lymnn B, LA.....	Bothell
Smith, Cora Lynn, Bus.....	Seattle	Stidham, Lois, Educ.....	Seattle

Stiffler, Marden, LA.....Seattle
 Stillings, Margaret B, Grad.....Yakima
 Stillman, Arthur B, Bus.....Eugene, Ore
 Stillman, Laura, FA.....Eugene, Ore
 Stilwell, Edward M, Grad.....Seattle
 Stinson, Harry L, LA.....Seattle
 Stinson, Howard R, Bus.....Spokane
 Stinson, Verna O, LA.....Seattle
 Stitt, Margaret N, Sci.....Seattle
 Stoddard, Inlee Z, Educ.....Rathdrum, Ida
 Stoddard, Orren D, Grad.....Seattle
 Stoll, Lorena D, Educ.....Sheffield, Ia
 Stoll, Pauline E, Educ.....Sheffield, Ia
 Stoltenberg, Julia A, Educ.....Howarden, Ia
 Stone, Ella E, Jour.....San Antonio, Tex
 Stone, Emma D, LA.....Seattle
 Stone, Ida, IA.....Seattle
 Stone, Lucia May, Grad.....Seattle
 Stone, Rose, LA.....Seattle
 Stone, E Viola, LA.....Thornton
 Stoneman, Vernon, Law.....Seattle
 Storey, Ralph E, Grad.....Kirkland
 Story, Grace, Educ.....Valley
 Studler, Mildred I, FA.....Shenandoah, Ia
 Stowassen, Frances, Grad..San Pedro, Calif
 Stowell, Ernest P, Educ.....Seattle
 Straight, Robert, Grad.....Vancouver, BC
 Streator, Gertrude I, Grad.....Seattle
 Strong, Maude A, Grad.....Seattle
 Strong, James H, Engr.....Seattle
 Strong, Virginia, LA.....Seattle
 Stub, H Gerhard, LA.....Seattle
 Stubbiefield, Laura, Educ.....Walla Walla
 Stuber, Esther E, LA.....Bellingham
 Study, Naomi, Educ.....Kent
 Stuermer, Ernest, Engr.....Seattle
 Sugimachi, Yaemitsu, LA.....Japan
 Sullivan, Angela, Educ.....Seattle
 Sullivan, Frankie, Educ.....Seattle
 Sullivan, Jennie B, Educ.....Seattle
 Sullivan, Julia, LA.....Butte, Mont
 Sullivan, Nell, Educ.....Seattle
 Summers, Wayne, LA.....Seattle
 Sundeen, Helen, Educ.....Anacortes
 Suppliger, Bernice, Grad.....Moscow, Ida
 Suppliger, Eleanor B, Educ.....Moscow, Ida
 Surbeck, Flora, LA.....Walla Walla
 Sutton, Colleen C, LA.....Port Orchard
 Suwalsky, Augusta, LA.....Seattle
 Suzuki, Eitaro, Bus.....Seattle
 Swan, Nora J, LA.....Mt Vernon
 Swanson, Christine M, LA.....Oakes, ND
 Swanson, Esther E, LA.....Sumas
 Swanson, Florence L, Grad...Troy, Mont
 Swanson, Ruby, Grad.....Troy, Mont
 Swartz, Fanny, Sci.....Seattle
 Sween, Theodora, LA.....Redmond
 Sweet, Florence, Educ.....Pendleton, Ore
 Sweet, Helen E, Grad.....Pocatello, Ida
 Swenson, Roy F, LA.....Seattle
 Swingle, Ruth E, Grad.....Seattle
 Syre, Melvin G, Educ.....Everson

Teske, Frances A, LA.....Minto, ND
 Teubner, Florence M, FA.....Opportunity
 Thayer, James D, Sci.....Seattle
 Thayer, Jean E, Grad.....Everett
 Thole, Marjorie, IA.....Seattle
 Thom, Amelia B, LA.....Spokane Bridge
 Thomas, Edgar, IA.....Seattle
 Thomas, Emily M, Educ.....Sheridan, Wyo
 Thomas, Ethyle, Educ.....Seattle
 Thomas, Fernie, LA.....Seattle
 Thomas, George W, FA.....Seattle
 Thomas, John H, Grad.....Walla Walla
 Thomas, Letty K, LA.....Seattle
 Thomas, Owen J, Educ.....Vancouver, BC
 Thomas, Pauline, Educ.....Portland, Ore
 Thomas, Roscoe G, Grad.....Seattle
 Thompson, Aletha, Grad.....Seattle
 Thompson, Arthur, LA.....Tacoma
 Thompson, Florence, Educ.....Seattle
 Thompson, Gertrude, Educ.....Yakima
 Thompson, Gladys M, Sci...Kamloops, BC
 Thompson, Glen M, Phar.....Seattle
 Thompson, Henry E, LA.....Seattle
 Thompson, Henry N, Bus.....Sitka, Alas
 Thompson, Irene, Grad.....Everett
 Thompson, L B, Grad.Twin Bridges, Mont
 Thompson, Lois D, Grad.....Olympia
 Thompson, Myrtle, FA.....Mt Vernon
 Thompson, Oliver, LA.....Milan, Minn
 Thompson, Randall, Sci.....Seattle
 Thomson, Harry S, LA.....Seattle
 Thomson, John, Educ.....Renton
 Thomson, Stuart, LA.....Seattle
 Thoreson, Mabel, FA.....Sioux Falls, SD
 Thorstenson, Idunn, LA.....Seattle
 Thorstenson, Skuld, LA.....Seattle
 Thune, Alta L, Educ.....Ada, Minn
 Thygeson, Margaret, Grad.....Ridgefield
 Tibbitts, Erva L, Grad.....Cashmere
 Tierney, William T, Educ.....Seattle
 Tiffany, Alice R, Educ.....Seattle
 Tiffany, Frank, Sci.....Seattle
 Tiffany, Martha J, Educ.....Bremerton
 Tilden, Iva A, Educ.....Juneau, Alaska
 Timbers, Edward B, Grad.....Seattle
 Tinker, Myrtle, LA.....Houston, Tex
 Tipp, Leonard, LA.....Seattle
 Tippet, Wilma, FA.....Seattle
 Tjossem, Vance, LA.....Boise, Ida
 Todd, Mary L, Educ.....Redlands, Calif
 Toner, Martin E, LA.....Lacey
 Tong, Idella, LA.....Portland, Ore
 Tonnemaker, Laurene E, Educ.....Zillah
 Torney, Mildred E, Educ..Nine Mile Falls
 Townsend, Ethel, LA.....Seattle
 Townsend, Paul A, LA.....Seattle
 Tozler, Jewel M, Grad.....Boise, Idaho
 Tracy, Ethel, Educ.....Seattle
 Travis, Marguerite, Grad.....Duluth, Minn
 Treischel, Ben E, Educ.....Hoquiam
 Tressler, Mary A, LA.....Conyngham, Pa
 Treutle, Fred G, Bus.....Gig Harbor
 Trimble, E Stewart, Bus.....Seattle
 Trow, Florence, Bus.....Seattle
 Troy, Smith, LA.....Olympia
 Trudeau, Elizabeth, Educ.....Seattle
 Trueblood, Henry, Grad.....Yakima
 Trullinger, John, LA.....Seattle
 Trunkey, Mory F, Educ.....Tacoma
 Tucker, William C, LA...Richmond Beach
 Tuell, J Irving, Sci.....Tacoma
 Turnbull, Adlie J, Educ.....Spokane
 Turnbull, J S, LA.....Skykomish
 Turner, Catherine M, Educ.....Chehalis
 Turner, Cecilia H, Grad.....Everett
 Turner, Charlotte J, FA.....Seattle
 Turner, Clara M, Sci.....Philippines
 Turner, Daisy E, LA.....Spokane
 Turner, H Elizabeth, LA.....Seattle
 Turner, Homer E, LA.....Seattle
 Turner, Leon F, LA.....San Antonio, Tex

Taake, Yeteve, Educ.....Seattle
 Takahashi, Yoshiomi, LA.....Japan
 Talarico, Josephine C, LA.....Spokane
 Tatsuuma, Tatsu, Bus.....Japan
 Taylor, Don C, Grad.....Seattle
 Taylor, Grace A, FA.....Vancouver, BC
 Taylor, Harriet M, Grad.....Seattle
 Taylor, Ira N, Educ.....Wilder, Ida
 Taylor, Kyle E, FA.....Seattle
 Taylor, Lucile L, Grad.....Wilder, Ida
 Taylor, S Fisher, Grad.....Seattle
 Taylor, Naomi, Educ.....Salem, Ore
 Taylor, Pearl C, Educ.....Long Beach
 Teiser, William K, LA.....Portland, Ore
 Tennyson, Florence L, Educ.....Everett
 Ternahan, Leslie L, Grad.....Boise, Ida
 Tesack, Kathryn E, FA.....Seattle

Whittaker, Jack, Educ.....Bryn Mawr
 Whittaker, Martha B, Sci.....Clarkston
 Whittier, Carrie, LA.....Seattle
 Wickmann, Dorothea, LA.....Denver, Colo
 Wichmann, H, Educ.....Plattsmouth, Neb
 Wicke, Mary V, Sci.....Seattle
 Wicker, Jessie, LA.....Sedro-Woolley
 Wickstrom, R Pearl, Grad.....Seattle
 Widell, Hilda L, Grad.....Centralia
 Widmann, Cornelia A, Educ.....Rosalia
 Wiedeman, Eleanor M, LA.....Yakima
 Wiedenhoeff, Lucile, LA.....Seattle
 Wigglus, F Edward, Engr.....Seattle
 Wiksten, Ebba, LA.....Puyallup
 Wilcox, Birt P, Grad.....Coulce
 Wilcox, Carrie, Educ.....Seattle
 Wilcox, Clarence W, Grad.....Tulare, SD
 Wilcox, Genevieve, LA.....Tacoma
 Wilcox, Helene K, LA.....Missoula, Mont
 Wilde, S. I., Fish.....Ritzville
 Wilder, Norman B, Bus.....Seattle
 Wiley, Frances E, Grad.....Seattle
 Wilford, Lloyd A, Grad.....Seattle
 Willard, Oliver M, LA.....San Francisco, Cal
 Wilkinson, Madge, Grad.....Seattle
 Williams, J Aloysius, Sci.....Seattle
 Williams, Anwylyd, Educ.....Blaine
 Williams, Blanche K, FA.....Seattle
 Williams, Blanche K, Grad.....Chinook, Mont
 Williams, Clara D, Sci.....Tacoma
 Williams, Eda M, Grad.....Bellingham
 Williams, Georgia, LA.....Spokane
 Williams, Gerald, LA.....Seattle
 Williams, H Irene, FA.....Seattle
 Williams, John, Bus.....Auburn
 Williams, R Marie, Educ.....Seattle
 Williams, Mentor L, Grad.....Seattle
 Williams, Ursula, FA.....Seattle
 Williams, Weldon, Grad.....Spokane
 Williamson, James W, LA.....Seattle
 Willgar, Mertie, Sci.....Puyallup
 Willingham, Irma M, LA.....Seattle
 Willis, Park Weed, Grad.....Seattle
 Willman, Richard, Engr.....Seattle
 Wilshire, Earl, Bus.....Seattle
 Wilson, S Berta, Grad.....Spokane
 Wilson, Bird A, Educ.....Aberdeen
 Wilson, Earl R, LA.....Burlington
 Wilson, Edmund G, Engr.....Seattle
 Wilson, Elsa, LA.....Kelso
 Wilson, Frank C, LA.....Tacoma
 Wilson, Lucile, Educ.....Everett
 Wilson, Mabel V, LA.....Seattle
 Wilson, G Marion, LA.....St Joseph, Mo
 Wilson, Rose J, Grad.....Buhl, Ida
 Wilson, Velma G, Educ.....Seattle
 Wilson, Virginia, LA.....Portland, Ore
 Wilson, William, Grad.....Great Falls, Mont
 Windesheim, Karl A, Grad.....Kenosha, Wis
 Windhusen, Anne E, Grad.....Medical Lake
 Winslow, Marion, Grad.....Greenleaf, Ida
 Winstock, Lois B, LA.....Seattle
 Winters, Bessie F, LA.....Seattle
 Wiswell, Reginald, Bus.....Seattle
 Wittenborn, Minnie, LA.....Kirkland
 Wix, Marguerite, Sci.....Glendale, Calif
 Wolaver, Florence E, LA.....Evanston, Ill
 Wolf, Stanley D, Phar.....Seattle

Wolff, Thelma, Bus.....Seattle
 Wolgamot, Winifred O, LA.....Billings, Mont
 Wolter, Armiade, LA.....Charleston
 Wolter, Edward F, Educ.....Seattle
 Wolz, Ellse, LA.....Seattle
 Wong, Shing Yipe, Bus.....Canton, China
 Wong, Violet, Phar.....Vancouver, BC
 Wood, Asa, Grad.....Libby, Mont
 Wood, Hazel E, Grad.....Seattle
 Wood, Irene B, FA.....Post Falls, Ida
 Wood, Janet M, LA.....Seattle
 Wood, Laura-Linda, LA.....Vancouver, BC
 Wood, Mattie B, Educ.....Everett
 Wood, William D, Bus.....Vancouver, BC
 Woodard, Coy B, Sci.....Seattle
 Wooden, Retta E, FA.....Kent
 Woods, M Ethel, Educ.....Wenatchee
 Woods, Gilbert C, LA.....Prescott
 Woods, Rachel A, Grad.....Seattle
 Woodward, Willard, LA.....Los Angeles, Calif
 Worcester, Dorothy B, Sci.....Seattle
 Work, Ardiella Belle, LA.....Capitola, Calif
 Wormward, Marie K, Educ.....Kellogg, Ida
 Worstell, Fern, Educ.....Bellingham
 Wortham, R, A, LA.....Seattle
 Witherspoon, Agnes, LA.....Seattle
 Wren, Harper C, Grad.....Seattle
 Wright, Doris, Grad.....Bellevue
 Wright, Frances M, Sci.....Albany, Ore
 Wright, Helen, Educ.....Long Beach, Calif
 Wright, John W, Grad.....Seattle
 Wright, Leota S, Grad.....Camas
 Wright, Miriam, Sci.....Tacoma
 Wright, Monica, Sci.....Bellevue
 Wright, Paul W, LA.....Seattle
 Wright, Quintin B, Grad.....Seattle
 Wright, Velma J, FA.....Roslyn
 Wyman, Flo A, FA.....Seattle
 Wynne, Ardis, Grad.....Ferndale
 Wynstra, Wieber, Grad.....Cheney
 Wynstra, Stanley S, Grad.....Cheney
 Yancey, Della, Grad.....Buckley
 Yankowaki, Hildegard, LA.....Port Blakely
 Yeamans, Ida M, Grad.....Webster, SD
 Yeend, Esther, Educ.....Walla Walla
 Yerton, Ruth B, Educ.....Seattle
 Yoltan, Nora W, LA.....Bellevue
 Youell, John, LA.....Seattle
 Young, Annie O, Grad.....Milwaukie, Ore
 Young, Catherine, FA.....Spokane
 Young, Edith, FA.....Mabton
 Young, Kate E, LA.....Portland, Ore
 Young, Ruth M, Bus.....Seattle
 Youngs, Ada C, Bus.....Everett
 Ytterdale, Harold, Engr.....Seattle
 Zarembo, Carl A, Bus.....Clipper
 Zehle, Emma G, Educ.....Lowell
 Zeller, Waldo C, Grad.....Vancouver
 Zener, Galew O, Bus.....White Salmon
 Zenner, Edna M, Sci.....Fairfield
 Zimmer, Zada Z, Educ.....Hoquiam
 Zimmerman, Rosa, FA.....Everett
 Zloncheck, Marion, LA.....Seattle
 Zurcher, Esther R, Grad.....Wilmot, Ohio

PUGET SOUND BIOLOGICAL STUDENTS—1927

Angst, Ernest C.....	Chehalis	Lampe, Lois.....	Columbus, Ohio
Angst, Laura.....	Chehalis	LaRue, Pearl.....	Seattle
Baker, Alfred.....	Sumas	Leach, Kathryn G.....	Bellingham
Baker, Grace.....	Tacoma	LeNeve, Nina F.....	Lytton, BC, Can
Barnard, Adella.....	Livingston, Cal	Lowrie, Ruth A.....	Seattle
Bartholomew, Jeunesse.....	Everett	McFaddin, Luella K.....	Spokane
Bird, Ralph D.....	Birdie, Man, Can	McKay, Elizabeth M.....	Seattle
Blalock, Phoebe.....	Walla Walla	Malen, Nora M.....	Perley, Minn
Bodenberg, Emmett T.....	Tacoma	Marsh, Gordon.....	Austin, Texas
Bodenberg, Miriam C.....	Tacoma	Miller, Marie.....	Randle
Bowen, Margaret I.....	Centralia	Miller, Ruth C.....	Eugene, Ore
Boysen, Helen.....	Austin, Texas	Moffatt, Mildred.....	Bellingham
Bradway, Winnifred E.....	Eugene, Ore	Moore, Clarita.....	Seattle
Bramhall, Lillian.....	Klamath Falls, Ore	Moser, Frances C.....	Galesburg, Ill
Brobeck, Lester F.....	Seattle	Mullen, Doris G.....	Seattle
Brown, Helen Jean.....	Columbus, Ohio	Mullen, Frances E.....	Hamilton
Broyles, Carolyn.....	Bellingham	Mullen, Frances H.....	Seattle
Burn, June.....	Sacramento, Cal	Nelson, Edwin L.....	Port Stanley
Busby, Carrie M.....	Spokane	O'Leary, Daniel Keith.....	Seattle
Bush, Mildred.....	Lebanon, Ind	Peterson, Anita M.....	Tacoma
Chaney, Beasie F.....	Seattle	Peterson, Elva K.....	Seattle
Chapin, Margaret H.....	Monroe	Phifer, Lyman D.....	Seattle
Clark, Irene G.....	Centralia	Pickering, Lois.....	Great Falls, Mont
Clauson, Jennie B.....	Kingsburg, Cal	Pierce, Dorothy.....	Laguna Beach, Cal
Courtney, Wilbur D.....	Corvallis, Ore	Pollock, Robert N.....	Seattle
Cumming, Olive.....	Graham	Prevedell, Elsie E.....	Lyman
Dean, Florence M.....	Seattle	Reed, Mary F.....	Holton, Kan
Edmonds, Katherine.....	Berkeley, Cal	Rigg, Raymond.....	Seattle
Estep, Amy J.....	Seattle	Sanford, Mildred.....	Sumner
Floed, Frances.....	Seattle	Schuett, J F.....	Lincoln, Neb
Folda, Florence.....	Seattle	Schusman, Dorothy.....	Snoqualmie
Forbes, Evelyn G.....	Seattle	Shipe, Lulu Mae.....	Knoxville, Tenn
Fouts, Marcla I.....	Seattle	Soderberg, Miriam.....	Seattle
Freeman, Binney S.....	Victoria, BC, Can	Sprague, Mary Willis.....	White Bluffs
Freeman, Daniel.....	Albany, Ore	Sprague, Roderick.....	Lewiston, Ida
Frye, Elizabeth A.....	Seattle	Stebbins, Florence M.....	Ellis, Kan
Frye, Elsie M.....	Seattle	Stumberg, John E.....	St Charles, Mo
Grier, Mary C.....	Seattle	Swanson, John H.....	Buffalo, Minn
Griffiths, Elizabeth L.....	Takoma Park, DC	Thomas, Mary L.....	Port Townsend
Groves, Essie.....	Ferndale	Tierney, Gerald F.....	Walla Walla
Hansen, Anita M.....	Friday Harbor	Todd, Seldon P.....	Seattle
Hart, Helen T.....	Spokane	Tryggvi, Carl.....	Bellingham
Hartge, Lena A.....	Seattle	Underhill, Julia A.....	White Bluffs
Hartwig, Margaret.....	Goodland, Kan	Vaughn, Alice H.....	Snohomish
Heimbürger, Harry V.....	Salina, Kan	Walters, Ruth.....	Bellingham
Heimbürger, Margot.....	Helsingfors, Finland	Wehr, Everett E.....	Urbana, Ill
Hickman, Thressa A.....	Knoxville, Tenn	Wells, Marjorie E.....	Seattle
Hitchings, George H.....	Seattle	Westover, Leone M.....	Grand Island, Neb
Hughes, Katherine W.....	Bellingham	Wied, Ida C.....	Waupaca, Wisc
Hurlburt, Frances M.....	Thompson Falls, Mont	Withrow, Faye.....	Seattle
Jackson, Dorothy E.....	Bellingham	Worley, Leonard G.....	Lincoln, Neb
Klein, Gretha.....	Fort Steele, BC, Can	Zeeb, Kathryn A.....	Seattle
Knox, Elizabeth.....	Toppenish	Zumbro, Olive.....	Riverside, Cal

SUMMARY OF ENROLLMENT
1927-1928

SUMMARY OF ENROLLMENT—1927-28

I. BY SCHOOLS AND COLLEGES

SCHOOLS AND COLLEGES	SUMMER QUARTER			AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER	TOTAL
	1st Term	2nd Term	Total				
	1	2	3				
Grad. School							
Men.....	287	225	319	186	200	146	261
Women....	465	324	554	149	159	129	227
Lib. Arts....	767	659	980	2583	2417	2179	2933
Men.....	231	214	252	1175	1104	953	1370
Women....	536	445	728	1408	1313	1226	1563
Science.....	182	155	266	857	778	749	966
Men.....	52	53	67	354	355	307	411
Women....	130	102	199	503	423	442	555
Bus. Admin..	156	152	171	1171	1066	906	1282
Men.....	113	109	128	966	881	737	1060
Women....	43	43	43	205	185	169	222
Education...	625	415	657	172	189	203	209
Men.....	106	99	112	47	52	52	58
Women....	519	316	545	125	137	151	151
Engineering..	40	25	48	708	664	556	802
Men.....	40	25	48	705	660	555	797
Women....	..	..	..	3	4	1	5
Fine Arts....	136	134	179	785	782	747	874
Men.....	13	33	33	189	197	173	219
Women....	123	101	146	596	585	574	655
Fisheries....	6	4	6	111	103	69	117
Men.....	6	4	6	110	101	69	115
Women....	..	..	..	1	2	..	2
Forestry....	2	1	2	144	140	119	168
Men.....	2	1	2	144	139	119	167
Women....	..	..	..	..	1	..	1
Journalism...	13	13	14	66	52	49	66
Men.....	8	7	8	38	26	23	38
Women....	5	6	6	28	26	26	28
Law.....	35	35	41	209	208	181	220
Men.....	34	35	40	200	195	172	207
Women....	1	..	1	9	13	9	13
Library Sci..	2	..	2	42	37	34	42
Men.....	..	..	..	2	2	1	2
Women....	2	..	2	40	35	33	40
Mines.....	1	..	1	23	22	18	29
Men.....	1	..	1	22	21	17	28
Women....	..	..	..	1	1	1	1
Pharmacy....	9	7	9	148	142	137	157
Men.....	6	4	6	128	119	112	132
Women....	3	3	3	20	23	25	25
TOTALS.....	2726	2149	3249	7354	6959	6222	8353
Men.....	899	809	1022	4266	4052	3436	4865
Women....	1827	1340	2227	3088	2907	2786	3488

NOTE: Columns 1, 2, 4, 5 and 6 represent census figures; i. e., the enrollment taken on a stated day within the first month of a term or quarter. Columns 3 and 7 show figures representing the number of individuals registered; Column 3 the number registered during the summer quarter; Column 7 the number registered during the academic year. For comparison with other institutions, the figures in columns 3 and 7 should be used, as these are the customary catalogue figures.

SUMMARY OF ENROLLMENT—1927-28

II. BY CLASSES

SCHOOLS AND COLLEGES	SUMMER QUARTER			AUTUMN QUARTER	WINTER QUARTER	SPRING QUARTER	TOTAL							
	1st Term	2nd Term	TOTAL											
	1	2	3											
Graduates...	297	762	235	559	329	883	226	391	234	406	176	315	302	545
Men.....	297	762	235	559	329	883	226	391	234	406	176	315	302	545
Women....	465		324		554		165		172		139		243	
Seniors.....	143	441	162	465	164	595	510	970	575	1110	553	1089	581	1091
Men.....	143	441	162	465	164	595	510	970	575	1110	553	1089	581	1091
Women....	298		303		431		460		535		536		510	
Juniors.....	202	834	235	697	242	979	768	1368	773	1325	728	1305	854	1501
Men.....	202	834	235	697	242	979	768	1368	773	1325	728	1305	854	1501
Women....	632		462		737		600		552		577		647	
Sophomores..	100	216	105	259	126	309	1192	1967	1075	1768	922	1600	1292	2129
Men.....	100	216	105	259	126	309	1192	1967	1075	1768	922	1600	1292	2129
Women....	116		154		183		775		693		678		837	
Freshmen....	152	456	67	150	154	458	1549	2615	1368	2298	1039	1856	1799	2988
Men.....	152	456	67	150	154	458	1549	2615	1368	2298	1039	1856	1799	2988
Women....	304		83		304		1066		930		817		1189	
Specials.....	5	17	5	19	7	25	21	43	27	52	18	57	37	99
Men.....	5	17	5	19	7	25	21	43	27	52	18	57	37	99
Women....	12		14		18		22		25		39		62	
TOTALS.....	899	2726	809	2149	1022	3249	4266	7354	4052	6959	3436	6222	4865	8353
Men.....	899	2726	809	2149	1022	3249	4266	7354	4052	6959	3436	6222	4865	8353
Women....	1827		1340		2227		3088		2907		2786		3488	

NOTE: Columns 1, 2, 4, 5 and 6 represent census figures; i. e., the enrollment taken on a stated day within the first month of a term or quarter. Columns 3 and 7 show figures representing the number of individuals registered; Column 3 the number registered during the summer quarter; Column 7 the number registered during the academic year. For comparison with other institutions, the figures in columns 3 and 7 should be used, as these are the customary catalogue figures.

TOTAL STUDENTS IN RESIDENCE

During regular academic year.....	8,353
During summer quarter.....	3,249
	<u>11,602</u>
Deduct summer quarter duplicates.....	502
Total for year.....	11,100

EXTENSION STUDENTS

Home Study		
Men.....	929	
Women.....	642	
		<u>1,571</u>
Extension Classes		
Men.....	678	
Women.....	3,118	
		<u>3,796</u>
Total.....		5,367

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