Course Syllabus

1. Program of Study Bachelor of Science (Biological Sciences)
Faculty/Institute/College Mahidol University International College

2. Course Code ICBI 310
Course Title Mammalian Physiology

3. Number of Credits 4 (3-2-7) (Lecture/Lab/Self-study)

4. Prerequisite *(s)* none

5. Type of Course Elective for Biological Science students

6. Trimester/ Academic Year
3rd trimester/ every academic year

7. Course Condition
Numbersof students is 20-30.

8. Course Description
Function and control mechanisms of nervous, muscular, circulatory, respiratory, excretory, digestive, endocrine and reproductive systems; their interrelationships in homeostasis; demonstration and practical exercise are included.

9. Course Objective *(s)*
1. To be able to do fine and describe the terms Mammalian Physiology and Homeostasis.
2. To be able to explain the mechanism of body functions and controls under under normal condition
3. To be able to explain the mechanism of the body adjustment under stresses.

10. Course Outline

Week	Topics	Hour			Instructor
	Lecture	Lecture	Lab	Self-study	
1	Introduction Lab: Instrumentation	3	2	7	Dr. Udom
2	Neurophysiology I Lab: The nerve impulse	3	2	7	Dr. Udom
3	Neurophysiology II Lab: Vision & Hearing	3	2	7	Dr. Udom
4	Muscle Physiology Lab: Muscular contraction	3	2	7	Dr. Pannada
5	Cardiovascular Physiology Lab: Work of the heart Work of the heart	3	2	7	Dr. Udom
6	Midterm exam	3			
7	Respiratory Physiology Lab: Respiration in man	3	2	7	Dr. Udom

8	Gastrointestinal Physiology Lab: GI Motility	3	2	7	Dr. Pannada
9	Renal Physiology Lab: Work of Kidney	3	2	7	Dr. Udom
10	Endocrine Physiology Lab: ENdocline gland	3	2	7	Dr. Pannada
11	Reproductive Physiology Lab: Birth of life	3	2	7	Dr. Pannada
Final examination					
	Total	**33**	**22**	**77**	

11. Teaching Method *(s)*

Lecturing, Demonstration and VDO presentation

12. Teaching Media

Transparencies, Handouts

13. Measurement and evaluation of student achievement

Student achievement is measured and evaluated by

13.1 The ability to describe the terms Mammalian Physiology and Homeostasis.

13.2 The ability to explain the mechanism of body functions and controls under under normal condition

13.3 The ability to explain the mechanism of the body adjustment under stresses.

Student's achievement will be graded according to the college and university standard using the symbols: A, B+, B, C+, C, D+, D and F. Students must attend at least 80% of the total class hours of this course.

Ration of mark

Midterm exam	35%
Final exam	45%
Class Attention and Attitude	10%
Term Paper	10%
Total	100%

14. Course evaluation

14.1 Students' achievement as indicated in number 13 above.

14.2 Students' satisfaction towards teaching and learning of the course using questionnaires.

15. Reference *(s)*

1. Martini, F.H. and Bartholomew, E.F. Essential of anatomy & physiology. USA. Prentice-Hall International, Inc. 1997.
2. Seeley, R.T. Anatomy & physiology. 5th Edition. USA. Prentice-Hall International, Inc. 2000.
3. Fox, S.I. Human physiology. 7th Edition. USA. Prentice-Hall International, Inc. 2002.

16. Instructor *(s)*

Assistant Professor Dr. Udom Tipayamontri

Dr. Pannada Hattachote

17. Course Coordinator

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