WINDWARD COMMUNITY COLLEGE

Vin Nayyar Ph.D. Zoology-141 (lecture) Fall, 2009

Office: Imiloa-119 Phone: 236-9107 E-MAIL: virendra@hawaii.edu

Office Hours:

Days	Time
Monday	9:25 A.M - 10:25A.M.
Tuesday	9:45 AM- 10:45 AM
Wednesday	11:30 AM-12:30 PM
Thursday	9:45 AM-10:45 AM

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

COURSE SYLLABUS AND SCHEDULE

Introduction:
The course is designed to introduce the students the basic concepts and an understanding of general structure and function of the human body. The course supports the students entering biological, health, or medically related fields and, is a requirement for the Physical Therapy Assistant and Associate degree in nursing programs. The course fulfils the natural science requirements for the Liberal Arts curriculum at WCC and at U.H., Manoa.

Activities Required at Scheduled Times Other Than Class Time:

1. Read each appropriated Chapter prior to class session. (Do objective type study questions at the end of each chapter in the textbook).
2. Write your summaries and notes in a journal
3. Turn in selected homework assignments, TERM PAPER, etc. ON TIME
4. Form a cluster of 3 students and work together

Assigned reading will provide background and supplemental information to enhance your comprehension of the principles of anatomy and physiology. Homework assignments will expand your understanding of the topics.

5. Learn all **definitions** thoroughly

ALL ASSIGNMENTS ARE TO BE HANDED OVER IN PERSON ON OR BEFORE THE DUE DATE. LATE ASSIGNMENTS OR ASSIGNMENTS LEFT IN MY MAILBOX OR OFFICE WOULD BE SUBJECT TO PENALTY.

Evaluation:
The student evaluation will be based on quizzes, examinations, term paper, class attendance and active participation during class periods. There will **NOT BE A RETEST** under any circumstances. Make up tests will not be given without a valid reason (medical certificate) and must be taken on the day the student returns to the class. Though unexpected and extremely unpleasant to mention, but any unfair practices (cheating, plagiarism) during the course activities would automatically lead to a final grade of "F", without any compromises. In case of a missed class, student alone shall be responsible for the material covered or any announcements made during that class period.
Four quizzes and exams will be given during the semester. Each quiz and exam will cover the lectures and chapters assigned since the preceding exam was given. **The four quizzes will be of open book type.** For each exam, you are allowed to bring an index card (3"X5"). All quizzes and exams will consist of objective types questions.

ALL QUIZZES AND EXAMINATIONS WILL BE ANSWERED ON SCANTRON FORMS ONLY AND STUDENTS SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN SCANTRONS.

Grading Policy:

Then distribution of points for the final grade shall be as follows:

Type	**Percentage**
4 **Open Book** Quizzes, **45 Minutes** each	24%
First, Second and Third Exam	48 %
Term Paper	8 %
Attendance, Class participation	4%
Final Exam	16 %

The Final Grade:
The final grade will be determined by the following range:

Grade	**Range**
A	90 % and above
B	80-89 %
C	70-79 %
D	60-69 %
F	59 % and less

Additional Information:
Any further detailed information can be obtained from the WCC general catalog.

Text Book: Human Anatomy and Physiology, Marieb and Hoehn, 7th Edition.
Nayyar, ZOO-141, Study Guide To Accompany The Text

Schedule:

Class no.	Date	Topic	Chapter
1	Aug,25, 27	General Course Introduction, Human body	1
2	Sept, 1	The Chemical Level of Organization	2
3	Sept, 3	The Chemical Level of Organization	2
	Sept, 7	HOLIDAY-LABOR DAY	
4	Sept, 8	The Cellular Level of Organization	3
5	Sept, 10	The Cellular Level of Organization	3
6	**Sept, 15**	**REVIEW AND QUIZ-I (OPEN BOOK)**	**1-3**
7	**Sept, 17**	**FIRST EXAMINATION**	**1-3**
8	Sept, 22, 24	The Tissue Level of Organization	4
9	Sept, 29	The Integumentary System	5
10	Oct, 1	The Skeletal System: Bone Tissue	6
11	Oct, 6	Skeletal System: The Axial Skeleton	7
12	Oct, 8	Skeletal System: Appendicular Skeleton, Joints	7, 8
13	**Oct, 13**	**REVIEW AND QUIZ-II (OPEN BOOK)**	**4-8**
14	**Oct, 15**	**SECOND EXAMINATION**	**4-8**
15	Oct, 20	Muscle Tissue	9
16	Oct, 22	The Muscular System	10
17	Oct, 27	Nervous Tissue	11
18	Oct, 29	Nervous Tissue	11
19	**Nov, 3**	**REVIEW AND QUIZ-III (OPEN BOOK)**	**9-11**
20	**Nov, 5**	**THIRD EXAMINATION**	**9-11**
21	Nov, 10	The Spinal Cord and Spinal Nerves	13
22	Nov, 12	BRAIN AND CRANIAL NERVES	12
23	Nov, 17	Brain and Cranial Nerves	12
24	Nov, 19	Sensory, Motor, and Integrative Systems	12
25	Nov, 24	Sensory, Motor, and Integrative Systems	13
26	Dec, 1	The Special Senses	15
27	Dec, 3	The Special Senses	15
28	Dec, 8	Autonomic Nervous System	14
28	**Dec, 10**	**REVIEW AND QUIZ-IV (OPEN BOOK)**	**12-15**
		FINAL EXAM AS ANNOUNCED IN THE SCHEDULE OF CLASSES	

NOTE: Failure of the instructor to arrive within 15 minutes of the scheduled class timings would lead to the automatic dismissal of the class for that period. Mahalo nui loa.

Vin Nayyar Ph.D. Zoology-141 (Lab) Fall, 2009

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COURSE SYLLABUS AND SCHEDULE

Introduction:
The course is designed to introduce the students to observe the basic principle of anatomy and physiology through experimentations. The course reinforces the basic concepts of anatomy and physiology being discussed in Zoology-141 lectures. Therefore, taking Zoology-141 concurrently is strongly recommended. The hand on experience is provided with the use of anatomical models, laser discs, computer anatomical images, animal and organ dissections, and physiological and biochemical experimentations. The students must come to the laboratory well prepared for the scheduled experiments. All experiments shall be done in a group of two, unless instructed otherwise. All laboratory exercises **MUST** be taken seriously and any kind of disturbance could lead to serious consequences.

Evaluation:
The student evaluation will be based on examinations, class attendance and laboratory reports of experiments and dissections. There will **NOT BE A RETEST OR MAKE UP EXAMS** under any circumstances. Though unexpected and extremely unpleasant to mention, but any unfair practices (cheating) during the course activities would automatically lead to a final grade of "F" without any compromises. In case of a missed class, student alone shall be responsible for the material covered or any announcements made during that class period. **IF YOU MISS AN EXPERIMENTAL OR DISSECTION LAB, IT WILL BE YOUR RESPONSIBILITY TO MAKE ARRANGEMENTS WITH ANOTHER INSTRUCTOR TO JOIN HIS/HER LAB FOR THE LAB RESULTS.**

Grading Policy:
Then distribution of points for the final grade shall be as follows:

Type	Percentage
Examinations I, II, and III	60 %
Laboratory reports	25 %
Attendance, Class participation	5%
Lab Drawings, photos	10%

ALL QUIZZES AND EXAMINATIONS WILL BE ANSWERED ON SCANTRON FORMS ONLY AND STUDENTS SHALL BE RESPONSIBLE FOR PROVIDING THEIR OWN SCANTRONS.

The final grade will be determined by the following range:

Grade	Range
A	90 % and above
B	80-89 %
C	70-79 %
D	60-69 %
F	59 % and less

Additional Information:

Any further detailed information can be obtained from the WCC general catalog

Required Materials:
Lab Manual: marieb, E,N, 2008. Human Anatomy and Physiology Lab. Manual. 9 Ed (Cat version)
It would also be helpful to bring a digital camera and USB flash drive to class to photograph anatomical specimens to review at home.
Schedule:

Class no.	Date	Topic	Exercise
1	Aug, 24	Orientation	Imiloa-103
1	Aug, 24	The Microscope, Cell Anatomy and Division	3(1,2,3,5,)4(1-6)
2	Sept, 31	Cell Transport Mechanism: Diffusion and Osmosis	5A(1,3,5)
	Sept, 7	HOLIDAY-LABOR DAY	
3	Sept, 14	Classification of Tissues	6A(1-4)
4	Sept, 21	The Integumentary System, Body Size and Composition	7(1,3,4,5)
5	**SEPT, 28**	**EXAMINATION-I**	**3-7**

6	Oct, 5	Bone Tissue, Axial Skeleton	9(1,3,4)10 1-4)
7	12	Appendicular Skeleton Joints: Articulation and Body movements	11(1-6), 131,2,3,5,6)
8	**OCT, 19**	**EXAMINATION-II**	**9-13**
9	Oct, 26	Muscle Tissue Gross Anatomy and Classification of Muscles	1491-3), 15(1-6)
10	Nov, 2	Skeletal Muscle Physiology Gross Anatomy of Muscles	17(ALL)
11	Nov, 9	Histology of Nervous Tissue Physiology of Nerve Impulse	17
12	Nov, 16	Gross Anatomy of Brain And Spinal Cord	19(ALL), 21(1-5)
13	Nov, 23	Human Reflex Physiology General Senses	22(1,3,6,7, 9), 23(2,3,7)
14	Nov, 30	Special Senses	24(3,5,7,1 0,, 25(1,3,47), 26(1,2,3)
15	**Dec, 7**	**EXAMINATION-III**	14-26

NOTE: THE SECEDULE IS SUBJECT TO CHANGE

KNOW ORIGINS, INSERTIONS, AND ACTIONS OF THE FOLLOWING TWENTY MUSCLES. MAKE IT IN A TABULAR FORM AND TURN IT IN.