INDIAN RIVER STATE COLLEGE

COURSE SYLLABUS

Fall, 2009

COURSE TITLE:	**COURSE NUMBER:**
Anatomy & Physiology I Laboratory	BSC 2093L

COURSE DESCRIPTION:

This is the lab component for BSC 2093. Lab topics include histology, the integument, and the skeletal, muscular, and nervous systems.

PREREQUISITE:

Student must score into college level mathematics and reading on placement tests. Prerequisite: BSC 2010 & BSC 2010L.

COREQUISITE:

BSC 2093

INSTRUCTOR INFORMATION:	Instructor: Office: Phone: Email: Office hours posted on instructor's website and office entry.

REQUIRED TEXTBOOK:

Required: *Human Anatomy & Physiology Laboratory Manual*, cat version, 9th Ed. Update, Marieb & Mitchell, 2009, ISBN# 0-8053-7362-4.

Anatomy & Physiology: The Unity of Form and Function, Saladin, 5th ed.

Optional: *Anatomy & Physiology coloring Workbook*. 9th edition, by Marieb, ISBN 0-8053-4778-X, and *The Visual Dictionary of the Human Body,* ISBN: 1-879431-18-1.

Additional Resources Available: http://faculty.irsc.edu/faculty/DEPT/biologicalsciences

GRADING POLICIES:

TESTS: 4 lab practical examinations (400 points total)
Completion of homework assignments by individual deadlines (50 points total).
Final grades are based on the percent of 450 points earned.

GRADES:
A - 90% - 100%
B - 80% - 89%
C - 70% - 79%
D - 60% - 69%
F - below 60%

W = withdraw by published college deadline (Monday**, Nov. 9, 2009**)
I = an incomplete may be given to passing students in EXTREME cases

Tentative Course Schedule

Week of	Laboratory Topic	Assignment Marieb Manual	Visual Dictionary
Aug. 24	Microscope Histology – epithelium PhysioExpCD – Histology	Handout Ex. 6, p. 67-73	
Aug. 31	Connective Tissue	Ex. 6, p. 74-81	
Sep. 7	**M. Holiday** Muscle, Nervous, & Integument systems	Ex. 6, p. 81-83; Ex. 7 p 91-98,	p. 24
Sep. 14	**Practical I,** Skull	Ex. 10, p.123-131	p. 16-17
Sep.21	Skeletal system	Ex. 10, p. 132-138, & 11, p. 145-150	p. 14-21
Sep. 28	Skeletal system Articulations	Ex. 11, p.151-156,13, p.169-181	
Oct. 5	**PRACTICAL II** Muscle Physiology Handout Activities, Physiogrip IP Muscle junction	Ex. 14, p.187-191	
Oct. 12	Muscles of head, neck, trunk	Ex. 15, p.197-226	p.22-29
Oct. 19	Muscles of extremities	Ex. 15, same	
Oct. 26	Continue Muscles		
Nov. 2	**PRACTICAL III,** Neuron Nervous Physiology	Ex. 17, p.257-264, 22 - experiments,	p. 35
Nov. 9	Nervous Physiology Brain, **W. Holiday**	Ex. 19, p. 279-292, Ex. 22, continue experiments	
Nov. 16	Brain & Cranial Nerves Spinal Cord,	Ex. 21, p. 315-318	
Nov. 23	Continue above, Eye, Ear, Review **W-F Holidays 11/25-27**	Ex. 23, p. 355-360 - experiments,	p. 32-34
Nov. 30	Eye, Ear, Review	Ex .24, p. 363-375 Ex. 25, p. 383-388 - experiments	p.36-37 p. 38-39
Dec. 7	**Practical IV**		

*TENTATIVE ASSIGNMENT SCHEDULE: Laboratory Homework Assignments

LAB HOMEWORK ASSIGNMENTS

Homework should be photocopied and only the photocopied pages handed in.
You retain original papers for study purposes. Homework will not be returned to students, but they will be informed of the points earned for assignments.

Homework is graded based on the point values for each assignment for a total of 50 points or 12% of your grade. (The four lab practical exams which are scored 100 points each make up the other 88% of the grade). You are expected to reasonably try and answer all questions in homework assignments. Questions skipped or answers that show no effort (complete random guesses) will result in no credit .

Homework must be handed in at the BEGINNING of the appropriate lab period. If a student is absent, and has a legitimate reason for the absence, he/she may hand in the assignment at the beginning of the next lab class attended. Notification of the instructor of the reason for the late submittal must be provided at that time.
Homework will NOT be accepted if worked on during the class in which it is due.

Due Dates: week of	**Assignments**
8/31/09	*6A, p. 85-88 [4pts]*
9/07/09	*7, p. 101-104 Omit fingerprints [4pts]*
9/14/09	
9/21/09	*10, p. 139-144 [6pts]*
9/28/09	*11, p. 157-163 [6pts]*
10/5/09	*13, p. 183-186 [3pts]* *BEGIN MUSCLE CHART or alternate assignment*
10/12/09	*Work on Muscle Chart or alternate assignment*
10/19/09	*17, p. 265-268 [3pts]*
10/26/09	
11/02/09	*19, p. 299-304 OMIT SHEEP BRAIN [4pts]* *22, p. 351-352 [2pts]* *Turn in Muscle Charts/ alternate assignments [3pts]*
11/09/09	*21, p. 337-340 [2pts]*
11/16/09	*23, p. 361-362 [4pts]*
11/23/09	*24, p. 377-382 [6pts]*
11/30/09	*25, p. 393-396 [3pts]*
12/07/09	*FINAL*

COURSE OBJECTIVES:

1. To provide an understanding of structure and function of the cell
2. To examine tissues with respect to their specific structure, locations in the human body, and normal physiology
3. To investigate the structure and function of the integument and the muscular, skeletal, and nervous systems.
4. To explain the importance of each aspect in the maintenance of homeostasis in the human body
5. To present the counterpart of normal function as leading to particular pathological problems

STUDENT LEARNING OUTCOMES:

Upon completion of BSC2093L, Anatomy & Physiology II Lab, students will be able to:

- Communicate major anatomical and physiological concepts and relate how these are connected within various areas of the biological sciences in a laboratory setting.
- Apply problem solving, analytical, and communication skills based on the scientific

method that will provide the foundation for lifelong learning and career development.
- Make use of technology to organize, acquire, and convey information relevant to the biological sciences.

ACTIVITIES AND REQUIREMENTS:

CHEATING: No cheating, of ANY kind, including plagiarism, will be tolerated by this department. Any student caught cheating will receive an immediate F in the course (no withdrawal allowed.) **CELL PHONES -** "All cell phones must be set on silent or off during the class period." [IRSC policy]

MEANS OF ACCOMPLISHING OUTCOMES:

Methods of instruction: Laboratory experiments, class discussions and/or interactions, assignments, and laboratory practical exams.

ATTENDANCE AND PROCEDURES:

MAKE-UP POLICY: Students should take their lab practical with their lab section at one of the sign in times. If a student is unable to attend that practical session, he/she MUST obtain his/her instructor's permission **ASAP** to take the practical - with a different lab section during the test day provided space is available - or discuss other options with his/her lab instructor.

ATTENDANCE: Students are expected to be present in lab in order to accomplish the learning goals for the lab practical examinations. To effectively utilize lab time, preparation is required on the part of the student. The student should have read the assigned laboratory exercises and attached handouts to become familiar with details for lab practical examinations BEFORE laboratory starts. (NOTE: The above schedule is only tentative and each student is responsible for knowing exact assignments.)

EXTRA CREDIT: No extra credit is given.

LIBRARY AND ON-LINE REFERENCE MATERIALS:

The **Miley Library** serves as IRCC's main library. The library is a place providing professional assistance, library books and media, and access to the library's electronic resources. There are extensive online database systems also available through IRCC's website www.irsc.edu Academic Support Centers are located at each of our five main campuses. They provide support personnel to assist you with tutoring and finding support materials. The phone numbers for each and their hours of operation also may be found through IRSC's website.

STUDENTS WITH DISABILITIES POLICY:

Indian River State College provides reasonable accommodations to students with documented disabilities through the Educational Services Division / Student Disability Services Office. The rights of students with disabilities which pertain to post-secondary education are provided under **Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990.** These laws prohibit discrimination by institutions to "otherwise qualified" students with disabilities. This enables such students to have an equal opportunity to benefit from the education offered by those institutions.

FLORIDA STATE STANDARDS ADDRESSED IN COURSE:

2.6, 8.0, 8.7