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Fall 2015

BIOS 3284

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University of New Orleans

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Bios 3284 Fall 2015 Syllabus

8/19/15

Course Title: Histology and Cytology

Department: Biological Sciences

Professor: Patricia M. Williams, Ph.D. DABT

Associate Professor

Pontchartrain Institute for Environmental Sciences

e-mail: pmwilli3@uno.edu

3 hour lecture course, 3 hours of lab (4 hr credit)

Lectures on Monday and Wednesday 3:30 pm – 4:45 pm

Laboratory on Wednesday 5:15-8:00 pm

Room: Sciences Bldg 1001 (lecture) and BIOS Bldg 216 (lab)

Course Description:

4 cr. Prerequisite: BIOS 2114. A study of the structure-function relationship of cells and tissues of the four basic tissue types in animals. Three hours of lecture and three hours of laboratory. There will be 3 lecture exams and 4 lab exams. Bonus questions for the lab exams will be provided at the end of selected laboratory exercises. Attendance at lectures and labs is mandatory.

Lecture and Laboratory Syllabus:

8/19/15 Introduction: explanation of syllabus and grading format;

8/24/15 Overview of The Eucaryotic cell; Cell cytoplasm (Ch 2)

Reading: all captions under Figures in power point slides

8/26/15 Cell Nucleus (Ch 3); Tissues: Concept and Classification (Ch 4)

Reading: all captions under Figures in power point slides

Laboratory 1: Reading: Chapter 1 Microscope care; Folder 1.4; Light Microscopy pgs 13-15; Fig. 1.9 and 1.10 Introduction to recognition of cell structures at the light microscope

8/31/15 Cell Nucleus (Ch 3); Tissues: Concept and Classification (Ch 4)

Reading: all captions under Figures in power point slides

9/2/15 Epithelial Tissue and specializations (Ch 5)

Reading: all captions under Figures in power point slides

Laboratory 2: Lab Study: Basic Tissue Types; Epithelial Tissue

9/7/15 Labor Day Holiday

9/9/15 Connective Tissue (Ch 6)

Reading: all captions under Figures in power point slides

Laboratory 3: Lab Study: Connective Tissue, Cartilage, Adipose Tissue

9/14/15 Cartilage (Ch 7)

Reading: all captions under Figures in power point slides

9/16/15 Bone (Ch 8) and Adipose Tissue (Ch 9)

Reading: all captions under Figures in power point slides

Laboratory 4: **Mock Quiz #1 (Labs 1-3) Not for grade;**

Lab Study: Bone and Adipose Tissue

9/21/15 Blood and Hematopoiesis (Ch 10)

Reading will be provided in form of handouts

9/23/15 Blood and Hematopoiesis (Ch 10)

Reading will be provided in form of handouts

Laboratory 5: Lab Study: Blood and Hematopoiesis

9/28/15 No Class—slide reviews on Moodle (Environmental Mutagenesis and Genomics Society—students invited)

9/30/15 **Written Lecture Exam #1**

Laboratory 6: **Review all slides for Practical Exam**

10/5/15 **Kodachrome portion of Lab Exam #1**

10/7/15 Muscle (Ch 11) Reading: all captions under Figures in power point slides

Laboratory 7: **Glass Slide Lab Exam #1** Lab Study: Lab Study: Muscle Tissue

10/12/15 Nerve Tissue (Ch 12); Central Nervous System, Peripheral Nervous System
Reading: all captions under Figures in power point slides

10/14/15 Nerve Tissue cont'd; Cardiovascular System (Ch 13): Heart, blood vessels, capillaries, lymph vascular system; Reading: all captions under Figures in power point slides

Laboratory 8: Nerve Tissue and Cardiovascular System

10/19/15 Respiratory System (Ch 19)

Reading: all captions under Figures in power point slides

10/21/15 Lymphoid Organs: tonsils, lymph nodes, thymus, spleen (Ch 14)
Reading: all captions under Figures in power point slides

Laboratory 9: Respiratory System, Lymphoid Organs: tonsils, lymph nodes, thymus, spleen (Ch 14)

10/26/15 Skin and derivatives (Integumentary System) (Ch 15)
Reading: all captions under Figures in power point slides

10/28/15 **Written Lecture Exam # 2 and Kodachrome slide identifications**

Laboratory 10: Glass Slide Lab Exam #2; Lab Study: Skin and derivatives (Integumentary System)

11/2/15 Endocrine System (Ch 21);
Reading: all captions under Figures in power point slides

11/4/15 Endocrine System cont'd (Ch 21); Male Reproductive System (Ch 22)

Laboratory 11: Lab Study: Endocrine System; Male Reproductive System;

11/9/15 Female Reproductive System (Ch 23)
Reading: all captions under Figures in power point slides

11/11/15 Urinary System (Ch 20)

Laboratory 12: Glass Slide Lab Quiz #3
Lab Study: Female Reproductive System; Urinary System (4/2/14);

11/16/15 Eye (Ch 24): Reading: all captions under Figures in power point slides

11/18/15 Ear: Reading: all captions under Figures in power point slides

Laboratory 13: Review for Final Exam

11/23/15 Review for Exam

11/25/15 TBA--No lab

Thanksgiving Holidays November 26-27

11/30/15 Review for Exam

12/2/15 **Kodachrome Quiz portion of Lab Exam #4**
Laboratory 14: Final Glass Slide Lab Exam #4

12/9/15 **Final Written Lecture Exam 3-5 pm**

Required Reference Text: Histology: A Text and Atlas. Seventh Edition, Wojciech Pawlina, Wolters Kluwer/ Lippincott Williams & Wilkins, 2016.

Grading:

Students will be assessed using three written exams and two practical laboratory exams.

FIRST LECTURE EXAM	25 %
SECOND LECTURE EXAM	25 %
THIRD LECTURE EXAM (FINAL)	25 %
LAB EXAMS (3 of 4)	25 %

All lecture exams are multiple choice. Item analysis is performed for quality assurance. The Final exam is not a cumulative exam. Bonus questions are provided. Failure to take any of the lecture or laboratory exams on the scheduled date and time will not be excused without a valid University excuse (illness of the student, or of an immediate family member, death of an immediate family member, participation on trips related to certain University functions, major religious holidays). There are no make-up exams for the lab practicals. The lowest lab practical exam will be dropped and the average of the remaining three practical exams will be averaged for 25% of the grade.

Grading Scale

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
below 60	F

Academic Dishonesty (edited from the UNO Policy Manual):

Fundamental to the learning process and evaluating academic performance is academic honesty. Maintaining such integrity is the responsibility of all members of the University. All faculty members and teaching assistants should encourage and maintain an atmosphere of academic honesty. They should explain to students the regulations defining academic honesty and the sanctions for violating these regulations. However, students must share the responsibility for creating and maintaining an atmosphere of honesty and integrity. Students should be aware that personally completing assigned work is essential to learning. Students who are aware that others in a course are cheating or otherwise committing academic dishonesty have a responsibility to bring the matter to the attention of the course instructor and/or academic unit head, or the Assistant Dean. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, academic misconduct, falsification/fabrication, and being an accessory to acts of academic dishonesty.

University Commitment on Disability Services

The University of New Orleans (UNO) is committed to providing for the needs of enrolled or admitted students who have disabilities under Section 504 of the Rehabilitation Act of 1973 and the Americans with disabilities Act of 1990 (ADA). In general, University policy calls for reasonable accommodations to be made for students with documented disabilities on an individualized and flexible basis. It is the responsibility of students, however, to seek available assistance at the University and to make their needs known.

University Policy on Sexual Harassment

Sexual harassment is unacceptable behavior and will not be tolerated. Sexual harassment is a violation of state and federal law. Sexual harassment has a negative impact on the functioning of the University. Consequently, all members of the University community must be sensitive to the possibility of sexual harassment whether intended or inadvertent. Individuals must recognize this potential and act to prevent it. When sexual harassment has occurred, the University shall take effective and expeditious action.

University policy on Religious holidays for which the University is not closed

The University of New Orleans permits students who observe religious holidays without an academic penalty. Alternative arrangements with students who request permission to observe such holidays will be granted. It is the student's responsibility to make such a conflict of course schedule known to the instructor at the beginning of the semester so that alternate arrangements for exams may be met with fairness to all students.

Course Attendance

Attendance at class is mandatory. Power point lecture slides will not be provided to those with unexcused absences. Attendance Roll will be taken at each class. Consequences of non-attendance will fall on the student to make up all class work and exams and obtain all class handouts/notes from other class attendees. There are no make-up exams for lab practicals. Do not request missed information from the instructor.

Make-up Exams

An exam that is not taken on the scheduled date may be excused by the instructor for extenuating circumstances and with documentation to support the reason for the excuse. A written request for the make-up exam with support documentation must be provided to the instructor on the first day of return to the University for classes. If the absence from the exam does not warrant an excused absence, the grade for the missed exam will be zero. If the absence is excused with support documentation of the emergency/urgent need for the absence, then a cumulative course makeup exam will be given after the last laboratory class on April 30th. The make-up exam for an excused absence will be administered at the end of the semester as a cumulative makeup exam for the entire course. It is the student's responsibility to notify the instructor of the reason for non-attendance of the exam no later than the student's first day of return to classes at the University. Do not assume that the exam will be excused prior to receiving the instructor's review of support documentation. The instructor shall be notified by e-mail and cell phone as to the date of return to classes at the University by the student. Only one excused absence for a missed lecture exam will be issued for extenuating circumstances with support documentation. If support documentation is not provided for the missed exam or the excuse is not of an emergency/urgent nature, the exam will not be excused and no makeup exam will be given to the student. A grade of zero will then be assigned. If a second exam is missed, the grade will be zero. There will be no make-up lecture exam for a second missed exam. There are no laboratory make-up exams. The lowest grade for laboratory exams is dropped. If there is a missed laboratory exam, that will be the dropped grade. If there is a second missed laboratory exam, a

grade of zero will be entered for that exam. Because of the nature of a make-up exam and the extended time for study, no item analysis and no bonus questions are provided.

Office Hours

Office hours for student consultation will be conducted at 312 CERM from 2:45 to 3:45 pm on Tuesdays. Other consultation by appointment.

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Course Objectives and Student Learning Goals:

- 1. Understand the morphology and ultrastructure of the Eukaryotic Cell.**
- 2. Recall and recognize the four basic tissues of the body at the light microscopic level**
- 3. Identify the tissues of the body and understand the functional and structural components**
- 4. Understand the structure of organ systems of the body and the tissues and structural components for each**
- 5. Be able to visually identify kodachrome slides and glass microscopic slides of the tissues of the body**
- 6. Be able to visually identify kodachrome slides and glass microscopic slides of the various structural components of the organs of the body**
- 7. Be able to distinguish the various tissues of the body as seen on kodachrome slides and glass microscopic slides.**
- 8. Be able to distinguish the various organs and their structural components as seen on kodachrome slides and glass microscopic slides.**
- 9. Understand the structure-function relationship of cells and tissues in the body of animals**
- 10. Understand the structure-function relationship of cells and tissues and their functional roles in the organs of the body**