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### **COURSE DESCRIPTION**

Histology is the study of tissues and how they are arranged to form organs. Although it focuses on structure, the goal is to better understand function. This course is arguably one of the most useful biology courses you can take: histology is the foundation of the study of function, macroscopic and microscopic anatomy, physiology, and cell and molecular biology and is a fundamental part of contemporary medicine.

### **COURSE OBJECTIVES**

This course will allow you to:

- Understand the organization of the mammalian body from the cellular to the organ levels
- Understand the relationship of structure and function
- Understand the correct use of a light microscope
- Understand lectures, texts, articles that you may subsequently encounter.
- Understand the nature of science and the biological significance of animal structure

### **TEXTBOOK**

Mescher, A.L. *Junqueira's Basic Histology Text and Atlas*, 14e. McGraw Hill Education. 978-1-25-925098-9

### **COURSE PAGE**

Information for the course (syllabus and other relevant material) can be found on Blackboard ([blackboard.csustan.edu](http://blackboard.csustan.edu)). Communication regarding the course will be done via Blackboard or email; it is your responsibility to check the course Blackboard page and your university email account regularly.

If you need to contact me, I recommend that you use email rather than telephone. Before emailing me, re-read this syllabus; answers to nearly all questions I receive are answered here.

### **LECTURES**

Lectures are organized with the presumption that you have at least scanned the material in the text related to the topic before class. Powerpoint slides are used to supplement the lecture and generally illustrate some aspect of histology (and give students something to look at besides me). Lecture slides often are composed labelled images with few words; you are expected to take notes on what is said rather than merely copying what may be on the slide.

### **LABS**

Labs are designed to allow students to actively interact with materials and learn to identify specific structures, tissues, and organs. To that end, an Identification Sheet will be available on Blackboard for each topic. You should be able to locate each of these items on a slide and to describe or define them.

### **HISTOLOGY SLIDE SETS**

A slide set will be checked out to each student. You will be responsible for each slide in the set. You will be charged for each slide that is lost or damaged. The entire slide set costs \$600; individual slide prices range from \$4.00 - \$20.00. Grades will not be submitted until charges are paid; after one semester the grade will become an F.

Histology is best understood when students systematically examine material. Therefore, cameras will not be allowed during lab (see Recording Policy, below)

### **LAB SAFETY**

Each student must watch the tutorial on the BioLab Safety course on Blackboard and pass the quiz with 100% correct if you did not do so last semester (Fall 2017). Failure to meet this requirement by 8:00 am Friday, 02 February will result in disenrollment from the course.

### **OPEN LAB**

To gain the most from the course (and to achieve success as measured by grades) you will want to study in the laboratory for several hours each week in addition to the scheduled class and lab sessions. The lab will normally be available F 8:00 am-3:00 pm (except on 09 Feb, 16 March, 30 Mar, and 27 April) and Tuesdays after lecture.

However, any inappropriate use of the lab or the destruction or loss of lab materials during open lab will result in cancellation of this privilege for the duration of the term for all students.

### EXAMS

Exams are written with the course goals in mind. The information in this course cannot be divided into separate, discreet units and therefore all exams will, to some extent, be cumulative. Exam questions are written in technical and standard English. Your answers must be clear, thoughtful, and appropriate to the question asked. Histological knowledge is demonstrated when you can demonstrate, identify, or accurately describe a particular histological structure (tissue, cell, object, organ, etc.). Accordingly, this will be the basis for exams. Correct spelling and grammar is necessary for effective communication and poor spelling and grammar are signs of intellectual immaturity and/or carelessness. Therefore, spelling and/or grammatical errors will result in loss of points on exams; illegible and/or unintelligible answers will receive no credit.

Exams will begin promptly at the designated time; students arriving after the exam has begun will not be allowed to take the exam. Unexcused absences for exams will earn a zero for that exam. Students with excused absences for an exam may be able to replace the missing score with the average from their other exams. Students have one class day after an exam has been returned to contest scores; after that exam scores will not be changed.

There will be three exams (see Course Schedule) that will generally include three parts:

- short answer or fill-in where in which you will be asked to define, describe, or explain, etc. specific items
- identification of structures, tissues, organs, etc., from projected images
- show me specific items from your slide set

### GRADING

Grades are determined by your achievement on exams. CR/NC grades are not possible for this course. Letter grades will generally be assigned as follows: A ≥ 85%, B ≥ 75%, C ≥ 65%, D ≥ 50%, F < 50%. The use of +/- grades is at my discretion.

While attendance and participation (or lack thereof) will not be directly calculated into your grade, they are generally revealed in your exam performance.

### COURSE DROP AND WITHDRAWAL POLICY

The policies for this course are the same as the university policies: "...dropping courses after the Enrollment Census Date will not be allowed. After the Enrollment Census Date, students are responsible for completion of the course(s) in which they are enrolled...Withdrawals after the Enrollment Census Date and prior to the last twenty percent of instruction may be assigned only for serious and compelling reasons." 21 February is the Enrollment Census Date.

### RECORDING POLICY

The use of audio and/or video recorders or cameras (including cell phone cameras) is not permitted during lecture or lab; including taking pictures of materials in lab (microscopic images, models, etc.). An exception is made for students who are registered with Disability Resource Services and specifically approved for this specific accommodation. If you do not intend to comply with this policy, please disenroll from this class.

### STUDENTS WITH DISABILITIES

Students with documented disabilities need to make an appointment with the instructor as soon as possible to discuss course adaptations and/or accommodations. If you have an undocumented disability, contact Student Support Services.

### PERSONAL INTEGRITY

Behavior that interferes with the instructor's ability to teach or the ability of students to benefit from instruction will not be tolerated. Such behaviors will be dealt with as severely as university regulations allow. Behavior that is not consistent with the Student Conduct Code—including any form of academic dishonesty—will result in immediate expulsion from the course, a failing grade, and the matter will be referred to the Office of Student Judicial Affairs.

### IMPLIED CONTRACT

This syllabus serves as a contract between you and the instructor. Your continued enrollment in this class denotes your understanding of, and agreement with, the material herein. You are expected to print this syllabus, read it carefully, and keep it in your notebook to refer to during the term.

## COURSE SCHEDULE\*

DATE	TOPIC	TEXT (Ch, pp)	DATE	TOPIC	TEXT (Ch, pp)
25 Jan	Introduction, Histotechnique, Microscopy, Epithelia	1:1-9,14-15; 4	25 Jan	Microscopy, Epithelia	1, 4
30 Jan	Epithelia	4	01 Feb	Muscle and Nervous Tissues	10, 9
01 Feb					
06 Feb	Muscle Tissues	10			
08 Feb	Nervous Tissues	9:161, 162-166	08 Feb	Connective Tissues	5-8
13 Feb	Connective Tissues	5, 6, 7, 8: 138-143, 144-148, 12: 237-241	15 Feb	Tissues (continued)	
15 Feb					
20 Feb					
22 Feb	<b>EXAM 1</b>		22 Feb	<b>EXAM 1</b>	
27 Feb	Skeletal System	7: 134-135, 8: 143, 148-158	01 Mar	Skeletal System	7, 8
01 Mar					
06 Mar	Circulatory System	11, 12	08 Mar	Circulatory System	11, 12
08 Mar					
13 Mar	Lymphoid Organs	14: 276-293	15 Mar	Lymphoid Organs	14
15 Mar	Endocrine System	20	22 Mar	Endocrine System	20
20 Mar					
22 Mar					
27 Mar	Respiratory System	17	29 Mar	<b>EXAM 2</b>	
29 Mar	<b>EXAM 2</b>		29 Mar	<b>EXAM 2</b>	
10 Apr	Digestive	15, 16	12 Apr	Digestive and Respiratory	15, 16, 17
12 Apr					
17 Apr	Urogenital	19, 21, 22	19 Apr	Urogenital	19, 21, 22
19 Apr					
24 Apr	Nervous	9:161-163, 168-190	26 Apr	Nervous	9:161-163, 168-190
26 Apr					
01 May					
03 May	Integument	18	03 May	Integument	18
08 May					
10 May	<b>EXAM 3</b>		10 May	<b>EXAM 3</b>	

\*The lecture topic schedule is tentative.