

**HISTOLOGY**  
**BIOLOGY 4630**  
**COURSE SYLLABUS Spring/Summer 2020**  
**WAYNE STATE UNIVESITY**

**Course Instructor - Dr. Karen Beningo**

**Instructor Information**

**Office Location:** 2111 Biological Sciences Bldg.

**Office Phone:** (313) 577-6819 (only in emergency)

**BSB Phone:** (313) 577-2873(4) (leave message with office personnel)

**Office Hours:** On zoom, date and meeting room provided to email or canvas announcement each week.

**Email Address:** [beningo@wayne.edu](mailto:beningo@wayne.edu) (preferred method of contact)

**Course Information**

**Lecture Location:** Online, recorded lecture and power point slides to be supplied in canvas modules.

**Exam Times:** Th 9:00 – 10:00 AM; May 21, June 11, July 2, July 30

**Required Texts:** *Color Atlas and Text of Histology*, 7th ed., by Leslie P. Gartner (ISBN-9781496346735)

**Course Website:** Canvas

**Lab Review Websites:** [www.kumc.edu/instruction/medicine/anatomy/histoweb](http://www.kumc.edu/instruction/medicine/anatomy/histoweb)  
[www.lab.anhb.uwa.edu.au/mb140](http://www.lab.anhb.uwa.edu.au/mb140)  
<http://www.med.umich.edu/histology/dmindex.html>

**Extra purchase highly recommended:** <https://secondlook.med.umich.edu>  
download this app to your phone from your app store, it is very useful.

**Course Description**

Multi-cellular organisms are hierarchal in structure, beginning with the basic building block, the cell. Cells are then organized into tissues, and tissues into organs that are brought together to form the entire organism. A course in cell biology teaches you the structure and function of a cell. A course in physiology teaches you how organs work together to form a functional organism. In histology, we will study the microscopic organization of cells into tissues. However, it is

important to also understand the context and purpose of these tissues; hence cellular function and physiological relevance to the entire organism will also be considered.

### **Learning Outcomes**

Upon completion of this course the student will be able to:

1. Identify and describe sample preparation and staining methods used in histological preparations.
2. Determine and describe, in general terms, what type of microscopy was used to collect a histological image.
3. Identify and properly describe, using appropriate nomenclature, multiple cell types and forms of epithelium based on morphology, location and staining hallmarks.
4. Determine what organ or tissue a histological section is derived from.
5. Describe the organization and function of specific tissues and cell types from multiple organ systems.

### **Course Examinations**

There will be **four** semi-comprehensive lecture exams as scheduled in the lecture outline. Each exam will consist of multiple choice, true/false, and matching. The first three exams will be worth 100 points each. **The lowest score of your first three exams will be dropped.** You must complete the course to qualify for this dropped exam option. Every student is **required** to take Exam (IV), as it will serve as the Final Exam. This exam will be worth 150 points and cannot be dropped. There will be **NO make-up exams** offered. If you miss one of the first three lecture exams, this will simply be your dropped exam. **350 points** of your overall course grade will come from lecture exam scores.

### **Exam Day**

- Please plan for 30 minutes to take the exam, this is a very controlled window only on the days specified, no make ups or alternative times will be provided.
- You will need to find a quiet place where you have access to a computer and the internet. No book, internet, friends or phones may be used.
- Questions regarding the exam will not be accepted during the administration of the exam. Please email problems you observed after the exam.
- Anyone who leaves the exam will not be allowed to start a new one.
- You will need to sign a code of conduct before each exam and if found cheating you will receive a fail for the course, no exceptions—and yes technology is getting smarter.

### **Attendance**

To succeed in this course it is very important that you listen to every lecture and keep up on your studies. Given the heterogeneity of tissue preparations and the

variety of tissue slides presented during lecture, you will be unaware of different structural attributes that are pointed out during lecture if you do not attend. This is your responsibility. Self-guided review will be done in labs and graded quizzes will be implemented in the laboratory section of the course.

### **Laboratory**

The laboratory portion of this course is directed by the graduate teaching assistants under my guidance. The laboratory portion of this course is worth **250 points** (approximately 40%) of your total course grade. The laboratory syllabus, consisting of the schedule and policies specifically pertaining to the lab, will be provided to you by your GTA. All lab concerns should first be addressed with your TA, then the course instructor.

### **Grading**

A total of **600** points can be earned (350 from the lecture and 250 from the lab). There will be NO opportunities for extra credit. Course grades are determined from total point accumulation (lecture + lab) at the end of the semester. At times it may be necessary to normalize the grades earned between lab sections, however this is rare. Final letter grades will be assigned according to the following grading scale:

<b>Percent</b>	<b>Grade</b>
93-100	A
90-92.99	A-
87-89.99	B+
83-86.99	B
80-82.99	B-
77-79.99	C+
73-76.99	C
70-72.99	C-
67-69.99	D+
63-66.99	D
60-62.99	D-
59.99 or below	F

	<b>Points</b>
Exam I	/100
Exam II	/100
Exam III	/100
Exam IV	/150
Drop exam	
Lecture Total	/350
Lab Total	/250
Course Total	/600

## **Final Exam Schedule**

**Date/Time:** Thursday July 30, 2020

**Location:** On line 9-10am

## **Exam Grade Disputes**

**I do not accept challenges to exam questions.** However, if you believe your score has not been added up properly please see me immediately. I am also human and do make errors, please gently call this to my attention if you believe this has occurred.

## **Add / Drop Policy**

Students may not be added after the second week of class. **Dropping a course is done electronically through your pipeline account.** If you officially withdraw from this course, it will appear on your transcript with a mark of “WP” (withdrawal with a passing grade earned to date), “WF” (withdrawal with a failing grade earned to date) or “WN” (withdrawal given to students who did not attend any classes and / or did not complete any assignments and / or did not participate in credit-earning activities by the withdrawal date). An “F” grade will be assigned to students who stop attending class without officially withdrawing. Further information regarding WSU’s grading policy can be found at (<http://sdcl.wayne.edu/RegistrarWeb/Registrar/policies.htm>). See the academic calendar for the last day to withdraw.

## **General Policies**

- There will be **zero-tolerance** for cheating. If you are caught cheating, you will get a zero for that exam and possibly fail the course. University disciplinary action may be pursued. Any inappropriate behavior will simply not be tolerated.
- I am happy to write a letter of recommendation for any student that earns an “A” in my course and also demonstrates strong personal characteristics that I have been made aware of during the semester.

## **Special Considerations for Individuals with Disabilities**

If you have a documented disability that requires accommodations, you will need to register with Student Disability Services (SDS) for coordination of your academic accommodations. The Student Disability Services (SDS) office is located at 1600 David Adamany Undergraduate Library in the Student Academic Success Services department. The SDS telephone number is 313-577-1851 or 313-577-3365 (TDD only). Once you have your accommodations in place, I will be glad to meet with you privately during my office hours to discuss your special needs. Student Disability Services’ mission is to assist the university in creating an accessible community where students with disabilities have an equal

opportunity to fully participate in their educational experience at Wayne State University.

### **Religious Holiday Conflicts**

If you have a conflict with any of the scheduled class or exam times due to religious reasons, you must notify me in writing by **05/16/19**. No special considerations will be considered unless I am notified in writing by this date.

### **Unexpected University Closures**

If the University is officially closed on an exam day, the exam will be held on the next regularly scheduled class day. Closure of the University is announced by the following mechanisms:

1. University Newline (313) 577-5345 \*
2. WSU Homepage ([www.wayne.edu](http://www.wayne.edu)) \*
3. WSU Pipeline ([www.pipeline.wayne.edu](http://www.pipeline.wayne.edu)) \*
4. WDET-FM (Public Radio 101.9)
5. other local radio and television stations

\* Note: Information on closures and class cancellations is likely to be found at these locations before it is broadcast by local radio and television stations.

### **Disclaimer**

This course syllabus is subject to modification at the discretion of the instructor without prior notice. Lecture topics and/or scheduled times may be changed to accommodate class progress. Students must keep up with the recorded lectures and take note of any such changes as appropriate. Any specific issue not covered by this syllabus will be resolved using University policies. Disputes that cannot be resolved following the guidelines present in this syllabus will be resolved by following the guidelines of the University "Student Due Process."

<u>DATE</u>	<u>TOPIC</u>	<u>CHAPTERS</u>
<b><u>Week1</u></b> May4	Introduction / Epithelial Tissue/Glands Connective Tissue (CT) Proper	2 3
<b><u>Week 2</u></b> May11	Cartilage Cartilage/bone	4
<b><u>Week 3</u></b> May 18	Bone <b>EXAM I MAY 21, Thursday 9-10 am</b>	4
<b><u>Week 4</u></b> May 25	Integumentary System Muscle Tissue	11 6
<b><u>Week 5</u></b> June 1	Muscle/Nervous Tissue Nervous Tissue	7 7
<b><u>Week 6</u></b> June 8	Nervous/eEndocrine <b>EXAM II June 11, Thursday 9-10am</b>	10
<b><u>Week 7</u></b> June 15	Endocrine Circulatory	10 8
<b><u>Week 8</u></b> June 22	Circulatory/Respiratory Digestive I&II (Oral and Alimentary Canal)	12 13,14
<b><u>Week 9</u></b> June 29	Digestive I&II (Oral and Alimentary Canal) <b>EXAM III July 2, Thursday 9-10am</b>	13,14
<b><u>Week 10</u></b> July 6	Digestive III (Liver and Pancreas)	15
<b><u>Week 11</u></b> July 13	Urinary Urinary/Female Reproductive	16 17
<b><u>Week 12</u></b> July 20	Female Reproductive Male Reproductive Systems	17 18
<b><u>Week 13</u></b> July 27	Male Reproductive Systems <b>CUMMULATIVE EXAM IV (FINAL EXAM) July 30, Thursday 9-10am</b>	18
	<b>Note:</b> This schedule is tentative except exam dates are firm (make note of the modifications)	

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