

HISTOLOGY
BIOLOGY 4630
COURSE SYLLABUS Winter 2021
WAYNE STATE UNIVERSITY

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 on canvas

Email Address: 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: T,Th 9:30 – 10:20 AM; Feb. 4, March 2, March 30, April 22

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

Course Website: Canvas, lectures in zoom, powerpoint slides in modules

Lab Review Websites: www.kumc.edu/instruction/medicine/anatomy/histoweb
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 33 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 are ill or have an unexpected circumstance, the exam you miss will serve as your dropped exam. To repeat, if you miss one of the first three lecture exams for any reason, 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.
- The respondus lockdown browser + monitor will be used to verify the integrity of the exam, **ALL STUDENTS ARE REQUIRED** to use the program, failure to do so will result in a zero. You must have a camera on your monitor or external.
- 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.

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, a curve may be applied at the instructor's discretion. 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:

Percent	Grade
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

	Points
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 22, 2021

Location: On line 9:30-10:20 am

The final exam will be 100 points of exam 4 (new material) and 50 points will be cumulative. For each chapter I will provide a study guide in a word document format. Please fill out each of these study guides because I will use them to select specific questions from each of them to assemble a cumulative study guide. You will use this cumulative guide to study for the final exam cumulative portion. I will only use questions from this cumulative guide to write that part of the final exam.

Remote Learning Policies

By registering for this course, you fully acknowledge that this is an online course, as such you agree to have all the necessary components needed for success in an online course. You must have a good working computer, reliable internet connection and the ability to stream and to maneuver in canvas. You also need to take the exam at the scheduled course time and on the scheduled date, no exceptions.

******This statement serves as full disclosure. If a problem with connection occurs during an exams, you will not be provided a do over or any other accommodation. This includes power outages, wifi loss, lost battery charge, malfunctioning software or hardware. This understanding must be clear from the outset as these are ploys often used during online exams for students to gain an advantage. You will not be given a repeat exam or extra time, you will need to use that exam as your drop should one of these issues occur. ******

Recorded lectures should be delivered on the Monday or Wednesday **evening of before the class day**. The slides will be provided separately from the zoom recording. The powerpoint slides will be posted in the module folder for note taking. The zoom lectures can be obtained from the canvas zoom file as they will be stored in the cloud.

Exams will be conducted on canvas, you will be allowed **50 seconds** to answer each of 33 questions. This time was chosen based on guidelines provided by institutes of online learning to prevent impropriety. You will not be allowed to scroll through the exam, after you answer each question **you may not go back to previous questions..** The need for these rules is unfortunate however coupled with **the respondus program** it is the best way to maintain fidelity.

Exam Grade Disputes

I do not accept challenges to exam questions. However, if you believe your score has not been added 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. Please note the University will be allowing a P/NP for courses again this semester, however it is important that you discuss this with your advisor first and that you also consider your future plans.

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 **01/19/21**. 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 due to some interference with remote learning (for example canvas is unavailable), the exam will be held on the next regularly scheduled class day. Closure of the University is announced by the following mechanisms (canvas issues are announced by email):

1. University Newline (313) 577-5345 *
2. WSU Homepage (www.wayne.edu) *
3. WSU Pipeline (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>WEEK</u>	<u>TOPIC</u>	<u>CHAPTERS</u>
<u>Week 1</u> January 11	Syllabus/Tissue Prep/Epithelial Tissue	2
<u>Week 2</u> January 18	Connective Tissue (CT) Proper	3
<u>Week 3</u> January 25	Cartilage Cartilage/bone	4
<u>Week 4</u> February 1	Bone EXAM I February 4, Thursday 9:30-10:20 am	4
<u>Week 5</u> February 8	Muscle Tissue	6
<u>Week 6</u> February 15	Nervous Tissue	7
<u>Week 7</u> February 22	Endocrine	10
<u>Week 8</u> March 1	EXAM II March 2, Tuesday 9:30-10:20 am Integumentary	11
<u>Week 9</u> March 8	Circulatory	8
<u>Week 10</u> March 15	SPRING BREAK	
<u>Week 11</u> March 22	Respiratory	12
<u>Week 12</u> March 29	Digestive I, II (Oral and Alimentary Canal) & III	13,14, 15
<u>Week 13</u> April 5	EXAM III March 30, Tuesday 9:30-10:20 am Urinary	16
<u>Week 14</u> April 12	Urinary/Female Reproductive Female/Male Reproductive Systems	16,17 17,18
<u>Week 15</u> April 19	Male Reproductive Systems CUMMULATIVE EXAM IV (FINAL EXAM) April 22 Thursday 9:30-10:20am Note: This schedule is tentative except exam dates are firm (make note of the modifications)	18

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