

BIOL 3421

HISTOLOGY- Spring 2022



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Office Hours: as posted on office door and on Blackboard and by appointment

Course Information

Course Description

This lecture and lab course covers the microscopic anatomy of normal cells, tissues, organs and systems of the human body with emphasis on integration of microscopic structure with physiology, embryology and other areas of biology.

Prerequisite and Co-requisite Courses:

Credit for two courses in biology for majors (e.g. Biol 1306/1106, 1307/1107, 1411,1413, etc.) or Biology 2323/2123 and 2324/2124.

Prerequisite Skills

Basic microscope skills. Accessing Internet websites, using ASU Library resources, and proficiency with Microsoft Word and/or PowerPoint are expectations of the course. Additionally, prior to any wet labs, the ASU biosafety / lab skills courses must be completed.

Student Learning Outcomes

Upon completion of this course, successful students will have:

- A basic understanding of microanatomy including cell types and how cells organize to form tissues and organs
- A basic understanding of the functions of those cells/ tissues.
- Insight into the importance of histology and histologic techniques in medicine and biological research.

Course Delivery

This is a face-to-face lecture and laboratory class with learning resources and supplemental materials posted in Blackboard. The computer will be utilized to generate some experiments/ data.

Required Texts and Materials

Junqueira's Basic Histology: Text and Atlas, **15th** edition by Anthony Mescher
ISBN: 9781260026177 **OR**

Junqueira's Basic Histology: Text and Atlas, **14th** edition by Anthony Mescher
ISBN: 0071842705 / 9780071842709

Technology Requirements

To successfully complete this course, students need to have access to Blackboard and Angelo State University email. Additionally, access to a Smart Phone with camera may be beneficial (but is not required) for use in the laboratory.

Communication

Faculty will respond to email and/or telephone messages within 48 hours during working hours Monday through Friday. Weekend messages may not be returned until Tuesday.

Written communication via email: All private communication will be done exclusively through your ASU email address and Blackboard. Check frequently for announcements and policy changes. In your emails to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone, Blackboard Collaborate or Skype.

Assignments/ Activities/ Attendance/ Grading

Class Assignments/Activities

The student's grade is based on **four equally weighted exams** (each worth 25% of the total grade). Exams will be given in both lecture and lab on the same day. The two portions of the exam will be combined into one grade for that exam. The first two exams will focus on the material covered in that block, while the third exam will be a comprehensive lab exam with increased emphasis on the third block. The fourth exam will be a comprehensive final exam over all lecture and lab material.

There will be two (2) percent **extra credit** built into each major lecture and laboratory exam. There will also be two, ONE (1) PERCENT assignments explained on class day 1. Part of this extra credit may be based on the Moon Lecture. Assuming a perfect

score on all exams, potential grades calculate to a final course average of 104%! In my estimation, this is a generous extra-credit system- therefore, **NO OTHER EXTRA-CREDIT WILL BE OFFERED AND THERE WILL BE NO "CURVING" OF FINAL GRADES.**

Attendance

Lectures-Students may attend lectures at their own discretion; however, in accord with University policy, attendance will be taken at each class meeting. Attendance records are maintained for administrative reasons (excessive absences may be reported to administration), but will not be a direct factor in determining your final grade. Note, however, consistent lecture attendance generally proves beneficial to successful examination performance. It is highly unlikely that persons with sporadic attendance will be able to maintain a successful level of performance. Note- the extra credit points listed above may be randomly assigned/ earned during class.

Laboratory-Laboratory attendance is imperative. Laboratory will stress the functional application of lecture knowledge and aid the student immensely in grasping histology. **Points toward your exams may be randomly assigned/ earned during lab class.**

Make-Up Work: Students are required to take all exams and to complete all assignments on time. Exceptions will be made only in rare and unusual circumstances and **ONLY BY PRIOR ARRANGEMENT. THERE ARE NO EXCEPTIONS TO THIS RULE.** Make-up exams will **NOT** be available except for University sanctioned excuses or verifiable illness. In these circumstances and at the discretion of the instructor, the final, comprehensive exam score may be used to replace a missed exam.

Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes. The following grading scale is in use for this course:

A = 90.0-100 percent

B = 80.0-89.9 percent

C = 70.0-79.9 percent

D = 60.0-69.9 percent

F = 0-59.9 percent (Grades are not rounded up)

Drop/ Withdrawal Policy:

The last day a student may drop/withdraw from class is **Thursday, April 28, 2022** (ie. these students will receive a W on their transcript). Any student remaining on the official role after this date will receive a grade.

Course Schedule

Lab work will correspond to topics covered in lecture. As noted above, on exam days, **exams will be in both lecture and lab, such that all exams are on Tuesdays.**

Whereas the schedule of lectures is tentative, exams WILL be given on the dates specified.

Week	Date	Topic or Module	Readings (Chapters)
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1	Jan 18	Introduction/ Microscopes, Cytoplasm, Nucleus/Slide Preparation/ Microscopy Special Techniques	1,2,3
2	Jan 25	Epithelial and Connective Tissues	4,5
3	Feb 1	Adipose, Cartilage,	6,7
4	Feb 8	Bone, Nerve	8,9
5	Feb 15	EXAM I & Muscle	10
6	Feb 22	Circulatory System,	11
7	Mar 1	Blood & Hematopoiesis	12,13
8	Mar 8	Lymphoid System	14
9	Mar 15	SPRING BREAK	
10	Mar 22	Digestive System	15,16
11	Mar 29	EXAM II & Skin	18
12	Apr 5	Respiratory System	17,
13	Apr 12	Endocrine Glands & Urinary System	19,20
14	Apr 19	Male &Female Reproductive System	21,22
15	Apr 26	Special Sense Organs	23
16	May 3	EXAM III (Lab Final); MOON LECTURE/Complete above	
17	May 12	(Thurs) 8:00-10:00AM: COMPREHENSIVE FINAL EXAM	

General Policies Related to This Course

All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)¹
- [Angelo State University Catalog](#)²

Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity](#)³ (Page 97).

Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁴

The instructor must receive a letter from Student Affairs describing the accommodations to be made at least one week prior to the assignments the student is requesting accommodation for. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dr. Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)⁵ for more information.

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 [Student Absence for Observance of Religious Holy Day](#)⁶ for more information.

Title IX at Angelo State University

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: [Incident Reporting Form](#)⁷

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy please visit the [Title IX website](#).⁸

Information About COVID-19

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)⁹ web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.

¹ <https://www.angelo.edu/current-students/student-handbook/>

² <https://www.angelo.edu/academics/catalog/>

³ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>

⁴ <https://www.angelo.edu/current-students/disability-services/>

⁵ <https://angelo.policystat.com/policy/10659448/latest/>

⁶ <https://angelo.policystat.com/policy/10659368/latest/>

⁷ <https://www.angelo.edu/incident-form>

⁸ <https://www.angelo.edu/title-ix>

⁹ <https://www.angelo.edu/covid-19/>