

**Biology 3490 - Histology
Fall 2016**

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Office Hours: 8-9, MTWThF or by appointment

Course Description: Biology 3490 is a course on Histology, the study of tissues. This course will deal with animal tissues, with emphasis on those of humans. The class is designed for the Biology major. Laboratory will focus on the identification of tissue types and tissue associations in human organs in the context of micro-anatomy. Histology techniques will also be covered in the laboratory. The goal of this course is to provide a working knowledge of histology and techniques in histological studies.

Course Objectives:

- The student should learn to identify tissue types.
- The student should learn the function and characteristics of different tissue types.
- The student should become able to visually recognize tissue types.
- The student should become competent in processing tissue samples to make diagnostic slides of the sample.
- The student should learn to evaluate (type and condition) tissue slides.

Prerequisite: Minimum grade of C in BIOL 1311, BIOL 1111, BIOL 1313, BIOL 1113, BIOL 2440, CHEM 1312, CHEM 1112 or CHEM 1412.

Text: Many texts will work. This will be addressed the first day of class or you may contact the professor with questions.

Laboratory Manual: You will need an Atlas of Histology that is printed in color. Many of these are available. If you have questions, contact the professor.

Attendance and Performance: Students are expected to attend classes and labs. Written testing will be from material that is primarily presented in lecture. Most, but not all, of this material is found in any Histology text book. A lecture outline will be available on Blackboard, but acquiring these notes is **not** the equivalent of coming to class and taking good notes. Knowing only the outline information will not be enough to pass the exams. Each student is required to complete their own assignments in the laboratory. Preparation and lab clean-up is also required of all students.

Make-Up Policy: There are no scheduled make-ups for assigned laboratories or laboratory exams. Excused absences will be dealt with on an individual basis. Make-up lecture exams will be given **only** to those with **excused** absences. Any exams missed because of unexcused absences will result in a grade of zero for that lab. Excused absences include medical problems (with documentation from a doctor); death in the

family; excused absences while conducting official Sam Houston State University business; or absences approved by the instructor **before** the time of the absence.

Final Exam: The final exam will be given during the scheduled time. If you miss the final exam, contact the professor before the end of the next day or a final exam grade of zero will be given.

Lecture Exams: Lecture exams will be a full class period long (1.5 hours) and may be a combination of visual identification, matching, fill-in-the-blank, short answer, and essay.

Laboratory Exams: Laboratory exams will be practicals in which you must correctly identify anatomical features or structures. These exams will consist of you writing a correct name on an answer sheet. Materials to identify will be primarily from histological sections on a microscope. The answers will come from your memory and will not be multiple choice or matching (no word bank will be provided).

Grading: Grades will be based on total points earned by the student throughout the course. Grades will be determined on a percentage basis as follows:

A = above 90%	above 450 points
B = 80-89%	400-449 points
C = 70-79%	350-399 points
D = 60-69%	300-349 points
F = below 60%	below 300 points

Ponts will be distributed as follows:

3 lecture tests (100 points each)	300 points
2 laboratory tests (100 points each)	<u>200 points</u>

Total Points	500 points
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The instructor reserves the right to create a curve (or not) for each test. That is, points may be added to all students equally if the instructor deems it necessary. Points will never be taken away due to a superb class performance.

There will be no individual extra credit.

Academic Dishonesty: All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

Classroom Rules of Conduct: Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. **Cellular telephones and pagers must be turned off before class begins.** Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

Visitors in the Classroom: Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom.

Americans with Disabilities Act: It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subject to discrimination under any academic or Student Life program of activity. Disabled students may request assistance with academically related problems stemming from individual disabilities by contacting the Director of Counseling Center in the Lee Drain Annex or by calling (936) 264-1720. Students who have disabilities that may prevent them from fully demonstrating their abilities should contact the instructor as soon as possible to discuss accommodations necessary to ensure the students educational opportunity. All disclosures of disabilities will be kept strictly confidential. NOTE: no accommodation can be made until you register with the Counseling Center.

Religious Holidays: Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence.

University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable timeframe in which the missed assignments and/or examinations are to be completed.

Tentative Lecture Schedule

Date		Lecture Topic
Aug.	25	Introduction
	30	Cell Review
Sept.	1	Epithelial Tissue & Glands
	7	Connective Tissue Proper
	8	Connective Tissue: Cartilage & Bone
	13	Connective Tissue: Blood
	15	Connective Tissue Misc.
	20	Muscle Tissue
	22	Nervous Tissue
	27	Exam 1
	29	Circulatory System
Oct.	4	Lymphoid System
	6	Lymphoid System
	11	Endocrine System
	13	Integumentary System
	18	Respiratory System
	20	Respiratory System continued
	25	Digestive System: Oral Cavity
	27	Digestive System: Alimentary Canal
Nov.	1	Alimentary Canal continued
	3	Exam 2
	8	Digestive System: Glands
	10	Urinary System
	15	Urinary System
	17	Female Reproductive System
	22	Male Reproductive System
	24	Reproductive System
	29	Special Senses
Dec.	1	Special Senses continued
	8	Final Exam 12-2pm

Anatomy and Physiology Laboratory Schedule

Date	Topic
Sept. 6	Epithelial Tissues
13	Muscle & Nervous Tissues
20	Connective Tissues
27	Circulatory & Skeletal Systems
Oct. 4	Exam 1
11	Skin & Special Senses
18	Immune & Respiratory System
25	Digestive System
Nov. 1	Urinary & Endocrine System
8	Reproductive System
15	Histology Techniques
22	Exam 2
29	Lab re-organization