

**Course Syllabus**  
**BIO 349W**  
**Histology**  
**4 Credit Hours**  
**Spring 2008**

**Location:** LDB 213 (lecture), LDB 136 (lab)

**Time:** T Th 8:00-9:20

**Professor:** Dr. Jerry L. Cook

**Office:** LDB 300A

**Phone:** (936) 294-1538

**E-mail:** bio\_jlc@shsu.edu

**Office Hours:** M T W Th F 10-11 am, or by appointment

**Course Description:**

- A study of animal tissues with emphasis on human materials. Identification and preparatory techniques are stressed.
- Prerequisite: Minimum grade of C in (BIO 138/118, 139/119) or (BIO161/111, 162, 112); CHM 138/118, 139/119. Two hour laboratory. Writing Enhanced.
- This will be a lecture/lab course with the laboratory dealing primarily with concepts in histology and identification of types of tissues. The lab will teach techniques in tissue and prepared slide preparation, as well as identification of tissues. Lecture exams may be a combination of multiple choice, fill-in-the-blank, short answer, essay, and naming of tissue types from samples. The laboratory exams will be practicals, primarily dealing with identification of real histological samples. Lab projects will also be graded for accuracy and technique.

**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.

**Required Textbook:** Gartner, L. P. and Hiatt, J. L. 2001. *Color Textbook of Histology, 2nd Edition* or *3<sup>rd</sup> edition* Saunders Publishing. Note: If you have a first edition it will still work for this class.

**Laboratory Manual:** Kerr, J. B. 2000. *Atlas of Functional Histology*. Mosby International. Note: If you have a different Atlas of Histology it will probably work. Check with your professor to see if an alternate atlas is sufficient.

**Required Supplies:** None.

**Optional Materials:** Lab aprons or jackets may be used, but are not required. Latex gloves will be provided, but if you are allergic to latex, you should supply non-allergenic gloves.

**Attendance Policy:** Students are expected to attend classes and labs. Attendance will be taken, but no part of the grade is based on attendance. Written testing will be from material that is presented in lecture and in the text. Most, but not all, of this material is found in the text book. Each student is required to complete their own assignments in the laboratory. Preparation and lab clean-up is also required of all students.

**Assignments:** There will be a writing assignment associated with the lecture portion of this class that will be worth 50 points. This paper will be critically graded, thus just turning in the assignment does not mean that you will get 50 points. Guidelines for the writing assignment will be handed out in the first few weeks of class and the paper will be due on April 15. The lab will have two assignments. The first will be to satisfactorily process four different tissue samples to produce high quality, identified slide preparations. These slides will be graded as to their final diagnostic quality and accuracy of your identifications. The second lab assignment will be to identify a series of unknown slides. These will be graded for accuracy and completeness of identification. The lab project guidelines will be given in the first two weeks of lab, and will be due by May 1.

**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. Make-up exams will be given only with a valid documented excuse (doctors excuse, obituary, etc.). The make-up exam will be different from the one taken at the regularly scheduled time, but will be of the same type of questions. 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). The final exam will be the same format as lecture exams and 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.

**Grading Plan:** 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 630 points
B = 80-89%	560-629 points
C = 70-79%	490-559 points
D = 60-69%	430-489 points
F = below 60%	below 430 points

Points will be distributed as follows:

2 lecture tests (100 points each)	200 points
Lecture final	100 points
2 laboratory tests (100 points each)	200 points
Lab Slide preparation project	100 points
Lab Unknown identification project	50 points
Writing assignment	<u>50 points</u>
<b>Total Points</b>	<b>700 points</b>

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	Chapter
Jan. 15	Introduction	
17	Cell Review	
22	Epithelial Tissue & Glands	5
24	Connective Tissue Proper	6
29	Connective Tissue: Cartilage & Bone	7
31	Connective Tissue: Blood	10
Feb. 5	Connective Tissue Misc.	
7	Muscle Tissue	8
12	Nervous Tissue	9
14	<b>Exam 1</b>	
19	Circulatory System	11
21	Lymphoid System	12
26	Lymphoid System	
28	Endocrine System	13
March 4	Integumentary System	14
6	Respiratory System	15
11-13	<b>Spring Break – No Class</b>	
18	Respiratory System continued	
20	Digestive System: Oral Cavity	16
25	Digestive System: Alimentary Canal	17
27	Alimentary Canal continued	
April 1	<b>Exam 2</b>	
3	Digestive System: Glands	18
8	Urinary System	19
10	Urinary System	
15	Female Reproductive System	20
17	Male Reproductive System	21
22	Reproductive System	
24	Special Senses	22
29	Special Senses continued	
May 1	Student Presentations	
6	Student Presentations	
	<b>Final Exam at Scheduled Time</b>	

## Anatomy and Physiology Laboratory Schedule

Date	Topic	Chapters
Jan. 24	Epithelial Tissues	3
31	Muscle & Nervous Tissues	5 & 6
Feb. 7	Connective Tissues	2 & 4
14	Circulatory & Skeletal Systems	7 & 9
21	Skin & Special Senses	8 & 19
28	Immune & Respiratory System	10 & 11
March 6	<b>Exam 1</b>	
13	<b>Spring Break – No Class</b>	
20	Digestive System	12, 13, & 14
27	Urinary & Endocrine System	15 & 16
April 3	Reproductive System	17 & 18
10	<b>Exam 2</b>	
17	Sample Preparation & Identification	Lecture Book Cpt. 1
24	Sample Preparation & Identification	
May 4	Projects Due	