

BMD 415, MICROSCOPIC ANATOMY, Fall 2004

COURSE OBJECTIVES: BMD 415 teaches students use of the light microscope to identify human and mammalian cells, tissues, and organs, and to understand the structure-function relationships. Students learn the skills to produce histological slide preparations to understand the advantages and limitations of the technique. Students also study cell structure from transmission and scanning electron micrographs.

COURSE DIRECTOR: Dr. Stephen K. Itaya
UCOM 6121, 380-2710
Office hours: M-F 8:30-9:30 AM
sitaya@jaguar1.usouthal.edu

LAB INSTRUCTOR:
Luciane Brown

Email: I will be using your Jaguar1 email address for class announcements. Please make sure you check it throughout this semester.

Anonymous email: If you would like to make an anonymous suggestion for this course or anything related to the BMD department, you may send an email to BMDdept@usouthal.edu. Our secretary will log in your message, remove any identifying information, and forward it to the appropriate faculty.

Bulletin Board: Check the Anatomy Class bulletin board in the BMD hallway during the semester for the class photo, announcements, quizzes, exam keys, and interesting anatomy information.

CLASS WEBSITE: <http://www.southalabama.edu/biomedical/415MicroAnatomy/BMD415.htm>
Follow links for the course syllabus, lectures, announcements, old exams, study guides, and links to histology web pages.

LECTURES: TR 9:30-10:45, UCOM 6005 Lecture notes will be posted at the class website and sold by the BMD Society.
Slide Identification Lab, UCOM 6011
Section 1: TR, 2-3:15 PM
Section 2: TR, 3:30-4:45 PM
Tissue Processing Lab, UCOM 6138
Variable hours

TEXT: *Basic Histology*, 10th ed., L.C. Junqueira et al., McGraw-Hill; ISBN book & CD: 0071378294; book: 0071413650; CD: 0071408347
Recommended: *Color Atlas of Histology*, L.P. Gartner & J.L. Hiatt, Lippincott Williams & Wilkins, ISBN: 0683306421 OR
A Photographic Atlas of Histology. M.J. Leboffe, Morton, ISBN: 0895826054
(or any medical histology atlas)

ATTENDANCE: Required for all lectures, exams, and labs. Absences from exams will be excused only for emergencies or sickness, and require notification prior to the exam. A physician's written excuse is necessary to be excused due to illness. In the case of excused absences, makeup lecture exams will be given. Unexcused absences from exams will result in a zero grade for the exam. No make up exams will be offered for lab practicals.

COURSE ORGANIZATION:

Tests will consist of three exams, each with a written and practical portion weighted equally. The first two exams will be worth 100 points each, with the final worth 150 points. All exams will be cumulative. Students will be expected to know all relevant lecture, text, website, supplementary, and lab materials.

The tissue processing portion of the lab will be evaluated based on lab notes (10), lab report (results) (30), lab performance (10) and quality of slides (100) for a total of 150 points. Lab material may be submitted early for evaluation. Deadlines for submission of all material will be announced. Examples of old notes and reports will be available in the lab but must not be removed.

Neither slide sets nor microscopes may be taken out of the lab. Students are responsible for slide sets (at a charge of \$10.00 per damaged or missing slide).

The teaching lab will be available Tuesday-Friday, from 8 AM until 5 PM (Physiology Lab is on Mondays). The lab will closed on the day of lab exams. A 5-headed microscope is available on a first-come, first-served basis in the back hallway M-F 8-5. Extra microscopes will be available in UCOM 6128 also. Tissue processing lab (UCOM 6138 and 6128) will be available M-F 8-5, or by special arrangement.

The course grade will based on a total of 500 points, with grades assigned as follows: A = 90%, B = 80%, C = 70%, D = 60%, F = <60%. Last fall there were 6 A's, 8 B's,3 C's, and 1 D.

Neither cheating nor plagiarism will be tolerated and will be punished to the fullest extent possible.. All students will be treated equally and given the same opportunities. Any exception given to one student will be given to all students.

The course prerequisite is BMD 311. Students who have not fulfilled the prerequisite must notify the instructor at the beginning of the quarter or risk administrative withdrawal.

Changes in course organization or policy will be made with at least 24 hours notice to the students.

Students with Disabilities

In accordance with the Americans with Disabilities Act, students with bona fide disabilities will be afforded reasonable accommodation. The Office of Special Student Services will certify a disability and advise faculty members of reasonable accommodations. "If you have a specific disability that qualifies you for academic accommodations, please notify me (the instructor/professor) and provide certification from Disability Services (Office of Special Student Services). The Office of Special Student Services is directed by Ms. Bernita Pulmas and is located in the Student Center, Room 270, Phone 460-7212."

Any student with a bonafide handicap that requires special consideration should consult with the instructor immediately after the first class. Any student who is pregnant must notify the

instructor for special lab arrangements.

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	Lecture / Chapter	Lab
T 8/24	Course Introduction	1. Introduction, Check in,
R 8/26	Tissue Processing, EM, IHC / 1	Video, Tissue Processing Intro
T 8/31	Review Cells / 2-3, Epithelium / 4	2. Epithelium
R 9/2	Connective & Adipose Tissue / 5-6	3. Connective & Adipose Tiss.
T 9/7	Cartilage & Bone / 7-8, practice quiz	4. Cartilage & Bone
R 9/9	Nervous Tissue / 9	5. Nervous Tissue
T 9/14	Ivan the Hurricane	
R 9/16	Ivan the Hurricane	
T 9/21	Muscle Tissue / 10	6. Muscle Tissue
R 9/23	Muscle Tissue / 10	6. Muscle Tissue
T 9/28	Lecture Exam 1 (50 pts)	Lab Exam 1 (50 pts)
R 9/30	Circulatory System / 11	7. Circulatory System
T 10/5	Blood Cells / 12	8. Blood
R 10/7	Immune System / 14	9. Immune System
T 10/12	Digestive System / 15	10. Digestive System
R 10/14	Digestive System / 15-16	11. Access. Digestive Organs
T 10/19	Respiratory System / 17	12. Respiratory System
R 10/21	Skin / 18	13. Skin
T 10/26	Lecture Exam 2 (50 pts)	Lab Exam 2 (50 pts)
R 10/28	Urinary System / 19	14. Urinary System
T 11/2	Endocrine System / 20,21	15. Endocrine System
R 11/4	Male Reproductive System / 22	16. Male Reproductive System
T 11/9	Female Reproductive System / 23	17. Female Reproductive Sys.
R 11/11	Eye / 24	18. Eye
T 11/16	Ear / 25	19. Ear
R 11/18	REVIEW	REVIEW
T 11/23	Optional Presentations	Finish slide preps
R 11/25	HOLIDAY	HOLIDAY
T 11/30	Optional Presentations	REVIEW
R 12/2	REVIEW (video lab slides) Course Eval.	Practice Exam
T 12/7	Lab Exam 3 (video exam, 25 pts-old)	Lab Exam 4 (50 pts-new)
R 12/14	Final Exam: 10:30-12:30 (75 pts = 25 old+50 new)	

Reminder: Lab is closed every Monday for Physiology Lab class, exceptions will be announced
 Video lab exam will be based on slides from the histology links listed at the course website.

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Student Information (Optional)

Name _____

Phone _____

Email _____

Address _____

Future / career plans: