

Course Syllabus Histology BIOL 4444 Lecture: TR 12:30-1:50 PM BO 209 Lab: T 2:00-4:50 PM BO 207 Fall 2024

Contact Information

Instructor: Dr. Mike Shipley Office: Pierce Hall 106 Office hours: MW 10:30-11:30 AM; TR 10:30-12:00 PM; or by appointment Phone: 397-4517 E-mail: michael.shipley@msutexas.com

Required Text

Leboffe, Michael J. A Photographic Atlas of Histology 2nd ed. Morton Publishing, Englewood, CO

Goals and Objectives

The goal of this course is to introduce you to the microscopic anatomy of the human body, with emphasis on light microscopy of human cells, tissues and organs. It is expected that you will achieve a working knowledge of the structure and function of the human body at the level of the tissue and their constituent cells. You will be able to apply this information in pre-professional areas such as medical and dental schools, as well as clinical lab science or graduate school.

Prerequsites

One year (8 credit hours) of biology.

Student Expectations

You are expected to abide by a proper mode of conduct in the histology class, which includes attending all scheduled class meetings and being on time. Additionally, you are expected to achieve a high level of competence in histology by devoting extra time to the study of microscope slides. Any additional study time of microscope slides should be done in BO 207, so you should become familiar with the fall schedule of courses in BO 207 to plan additional study time. Please refer to the current MSU Handbook and Activities Calendar for university policy on academic dishonesty, class attendance, student rights and activities.

Examination Material

The exams will consist of three (3) exams that include tissue identification from photographic and microscope slides, and one take-home written exam, which is a comprehensive exam based on lecture material. Each ID exam will contain 3 point-outs (described in class) that will provide a bonus of up to 6 points per exam. Students should study the assigned text chapters, review lecture notes, and study assigned microscope slides and Internet images in preparation for the exams. See the schedule below for exam dates.

Detailed Lecture Schedule

Date	Торіс	Chapter		
Tuesday August 27	Histology Intro	1		
Thursday August 29	Epithelium	3		
Tuesday September 3	Connective Tissue – Fibrous	4		
Thursday September 5	Connective Tissue – Cartilage &	5		
	Bone			
Tuesday September 10	Connective Tissue – Blood & Bone Marrow	6		
Thursday September 12	Muscle & Nervous Tissue	7,8		
Tuesday September 17	Nervous System	8		
Thursday September 19	Nervous System; The Ear;	8, 9		
Thursday Deptember 19	Practice Exam	0, 9		
Tuesday September 24	EXAM 1			
Thursday September 26	The Eye	9		
Tuesday October 1	Cardiovascular System	12		
Thursday October 3	Endocrine System – Hypophysis	10		
Tuesday October 8	Endocrine System – Other Organs	10		
Thursday October 10	Integumentary System	11		
Tuesday October 15	Integumentary System	11		
Thursday October 17	Lymphatic System	13		
Tuesday October 22	Lymphatic System	13		
Thursday October 24	Respiratory System; Practice	9, 15		
	Exam			
Tuesday October 29	EXAM 2			
Thursday October 31	Respiratory System	15		
Tuesday November 5	Digestive System – Oral Cavity	9, 14		
Thursday November 7	Digestive Tract	14		
Tuesday November 12	Digestive Tract	14		
Thursday November 14	Digestive System – Accessory Organs	14		
Tuesday November 19	Urinary System	16		
Thursday November 21	Male Reproductive System	17		
Tuesday November 26	Male & Female Reproductive	17		
	Systems			
Thursday November 28	Thanksgiving – No Class			
Tuesday December 3	Female Reproductive System;	17		
	Practice Exam			
Thursday December 5	EXAM 3; Pick Up Written Final			
Thursday December 12 (10:30 am)	Turn in Written Final; Lab Check			
	in			

Detailed Lab Schedule

Date	Торіс	Assigned Slides	
Tuesday August 27	Lab Check-in	¥	
Tuesday September 3	Epithelium; Connective Tissue (Fibrous)	1-6, 66, 72, 74, 77, 95, 7, 14- 16	
Tuesday September 10	Cartilage & Bone; Blood & Bone Marrow	8-10, 74, 11-13, 21-23	
Tuesday September 17	Muscle & Nervous Tissue	25-27, 83, 95, 52	
Tuesday September 24	No Lab Meeting		
Tuesday October 1	Nervous System; The Ear & Eye; Cardiovascular System	51, 53-56, 69-70, 24, 28	
Tuesday October 8	Endocrine System	76-80, 91	
Tuesday October 15	Integumentary System	1, 4, 17-20	
Tuesday October 22	Lymphatic System	58-62, 94, 97	
Tuesday October 29	No Lab Meeting		
Tuesday November 5	Respiratory System; Digestive System (Oral Cavity)	71-75, 82-89	
Tuesday November 12	Digestive System (Digestive Tract)	93-100	
Tuesday November 19	Digestive System (Accessory Organs); Urinary System	90-92, 63-66	
Tuesday November 26	Male & Female Reproductive System	43-49, 34-38	
Tuesday December 3	Female Reproductive System	39-42	

Grade Determination

The grade for this class will be based upon your performance on the exams. There will be a short Practice Exam given in class before each actual exam (not counted in the grade). The breakdown for the grade and the grading scale is as follows:

Category	Percent of Grade	Grade Range	Letter Grade
Lab ID Exams (3)	75%	90-100	A
Lecture Written Take- Home Exam (1)	25%	80-89	В
		70-79	С
		60-69	D
		< 60	F

Additional Sources

Additional texts and atlases are available to you during the laboratory portion of the course. You are encouraged to explore sources outside of your textbook and microscope slides. Histology is a visual discipline, and the World Wide Web is a good source for images and information on microscopic anatomy. Helpful sites include:

Website	URL
LUMEN (Loyola	http://www.meddean.luc.edu/lumen/MedEd/Histo/frames/histo_frames.html
University)	
Atlas of Histology	https://histo.life.uiuc.edu/histo/
University of Illinois at	
Urbana-Champagne)	
SIU SOM Histology	http://www.siumed.edu/~dking2/index.htm
(Southern Illinois	
University)	
Histology and Virtual	https://histology.medicine.umich.edu/full-slide-list
Microscopy Learning	
Resources (University	
of Michigan)	http://biotology.ctlogy.uiog.ody./olidog/425
Histology Website Resources (University	http://histologyatlas.wisc.edu/slides/425
of Wisconsin)	
Histology Learning	http://www.bu.edu/histology/m/index.htm
System (Boston	<u>http://www.bd.edd/histology/hi/hdex.htm</u>
University)	
MedPics (University	https://medpics.ucsd.edu/
of San Diego	
School of Medicine)	
Ed's Basic Histology	http://www.pathguy.com/histo/000.htm
Gallery	
Mammalian Histology	http://www.udel.edu/Biology/Wags/histopage/histopage.htm
(The University of	
Delaware)	

Campus Carry

Senate Bill 11 passed by the 84th Texas Legislature allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked, in accordance with state law. For more information regarding campus carry, please refer to <u>Campus Carry Rules and Policies</u>. If you have questions or concerns, please contact MSU Chief of Police Patrick Coggins at <u>patrick.coggins@mwsu.edu</u>.