



Course Syllabus
Histology
BIOL 4444
Lecture: TR 12:30-1:50 PM BO 213
Lab: F 2:00-4:50 PM BO 207
Fall 2022

Contact Information

Instructor: Dr. Mike Shipley
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Office hours: MW 10:00-11:00 AM; TR 9:30-11:30 PM; or by appointment
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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.

Prerequisites

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 and Covid-19 Adjustments

The exams will consist of lab exams (3) that include tissue identification from photographic and microscope slides, and two written lecture exams. 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 preceding schedule for exam dates.

Detailed Lecture Schedule

Date	Topic	Chapter
Tuesday August 23	Histology Intro	1
Thursday August 25	Epithelium	3
Tuesday August 30	Connective Tissue – Fibrous	4
Thursday September 1	Connective Tissue – Cartilage & Bone	5
Tuesday September 6	Connective Tissue – Blood & Bone Marrow	6
Thursday September 8	Muscle & Nervous Tissue	7, 8
Tuesday September 13	Nervous System; Practice Exam	8
Thursday September 15	Nervous System; Cardiovascular System	8, 12
Tuesday September 20	Cardiovascular System	12
Thursday September 22	Integumentary System	11
Tuesday September 27	Integumentary System– Vessels & Lymph Nodes; Other organs & MALT (Online Lecture)	11
Thursday September 29	Lymphatic System	13
Tuesday October 4	Respiratory System	9, 15
Thursday October 6	Respiratory System	15
Tuesday October 11	WRITTEN MIDTERM EXAM	
Thursday October 13	Digestive System – Oral Cavity	9, 14
Tuesday October 18	Digestive System – Digestive Tract; Practice Exam	14
Thursday October 20	Digestive System – Digestive Tract	14
Tuesday October 25	Digestive System – Accessory Organs	14
Thursday October 27	Endocrine System – Hypophysis	10
Tuesday November 1	Endocrine System – Other Organs	10
Thursday November 3	Urinary System	16
Tuesday November 8	Urinary System, Female Reproductive System	16, 17
Thursday November 10	Female Reproductive System	17
Tuesday November 15	Male Reproductive System	17
Thursday November 17	Male Reproductive System	17
Tuesday November 22	The Eye & Ear	9
Thursday November 26	Thanksgiving – No Class	
Tuesday November 29	Lab: Slides 69-70 (Eye & Ear)	
Thursday December 1	Practice Exam	
Thursday December 8 (10:30 am)	WRITTEN FINAL EXAM	

Detailed Lab Schedule

Date	Topic	Assigned Slides
Friday August 26	Check-in; Epithelium	1-6, 72
Friday September 2	Connective Tissue (Fibrous, Cartilage & Bone)	4, 7, 14-16, 8-10, 11-13
Friday September 9	Blood & Bone Marrow; Muscle, Nervous Tissue	21-23, 25-27, 52
Friday September 16	EXAM 1 (Four Classes of Tissues)	
Friday September 23	Nervous System; Cardiovascular System	51, 53-56, 24, 28
Friday September 30	Integumentary System; Lymphatic System	1, 4, 17-20, 58-59, 61-62, 94, 97
Friday October 7	Respiratory System	71-75
Friday October 14	Digestive System – Oral Cavity	82-89
Friday October 21	EXAM 2 (Nervous, Cardiovascular, Integumentary, Lymphatic, Respiratory, and Digestive System - Oral Cavity)	
Friday October 28	Digestive System (Digestive Tract & Accessory Organs); Endocrine System (Hypophysis)	93-100, 90-92, 78
Friday November 4	Endocrine System (Other Organs); Urinary System (The Kidney)	76-77, 79-80, 66
Friday November 11	Urinary System (Urinary Tract); Female Reproductive System	63-65, 34-42
Friday November 18	Male Reproductive System	43-49
Friday November 25	Thanksgiving Holiday	
Tuesday November 29	Eye & Ear	69-70
Friday December 2	EXAM 3 (Digestive System – Digestive Tract & Accessory Organs; Endocrine, Urinary, Male & Female Reproductive Systems; Eye & Ear)	

Grade Determination

The grade for this class will be based upon your performance on the exams. There will be a short Mock 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)	50%	90-100	A
Lecture Written Exams (2)	33%	80-89	B
Highest Exam	17%	70-79	C
		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 University)	http://www.meddean.luc.edu/lumen/MedEd/Histo/frames/histo_frames.html
Atlas of Histology University of Illinois at Urbana-Champaign)	https://histo.life.uiuc.edu/histo/
SIU SOM Histology (Southern Illinois University)	http://www.siumed.edu/~dking2/index.htm
Histology and Virtual Microscopy Learning Resources (University of Michigan)	https://histology.medicine.umich.edu/full-slide-list
Histology Website Resources (University of Wisconsin)	http://histologyatlas.wisc.edu/slides/425
Histology Learning System (Boston University)	http://www.bu.edu/histology/m/index.htm
MedPics (University of San Diego School of Medicine)	https://medpics.ucsd.edu/
Ed's Basic Histology Gallery	http://www.pathguy.com/histo/000.htm
Mammalian Histology (The University of Delaware)	http://www.udel.edu/Biology/Wags/histopage/histopage.htm

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 [Campus Carry Rules and Policies](#). If you have questions or concerns, please contact MSU Chief of Police Patrick Coggins at patrick.coggins@mwsu.edu.