Welcome to Anatomy 6331. This is an introductory graduate level histology course designed for students with advanced level of basic sciences training (cell/molecular biology, physiology, embryology), and firm foundational knowledge in human gross anatomy. This course is designed specifically for graduate students in early stage of their academic training and those preparing to enter post-graduate schools. Main goal of the course is to provide basic fundamental histological knowledge upon which to build broader and deeper understanding and appreciation for anatomical sciences as the students progress in their respective academic careers. This course is designed for mature, self-driven and proactive professional adult learners.

Objectives of the course
- Describe and identify various cells, tissues and organs of the human body and correlate structure with function
- Acquire familiarity to operate and utilize microscopes and virtual histology laboratory to gain critical pattern recognition skills
- Demonstrate familiarity with basic histological techniques
- Use histological, anatomical, physiological and medical terminologies fluently
- Integrate histological knowledge with other anatomical science subjects (anatomy, embryology and neuroanatomy)

Required Text Book

Recommended Text Books/Atlas
1. Wheater's Functional Histology a text & color atlas by Young et. al., 5th ed. Churchill Livingstone
Class Format

Class meets every T and Th from **9:00am to 12:00pm** in MSMHA Conference room.

Additionally, instructor has dedicated office hours every Friday from 9:00am to 12:00pm. Students are strongly encouraged to maximize this opportunity to master the content and pattern recognition skills critical for success in the course.

**Due to limited time (7-week) dedicated to histology course, workload for this 3-credit hour course will be heavy both in and outside of the class.**

In addition to the 6 lecture hours, students are expected to spend approximately 12 hours each week on study of histology outside of the class.

**Lecture**

Lecture hours will be used strictly for class-wide discussion, discovery of histological features and practicing pattern recognition skills using virtual histological slides.

Only very limited amount of didactic lecture will be given hence, it is EXTREMELY IMPORTANT to read the assigned chapters before coming to class.

Due to limited lecture hours, not all textbook materials maybe covered during the allotted time. It is the students’ responsibility to adequately master all histology concepts in the reading assignment.

**Virtual Laboratory experience**

Majority of lab exercises will be done online using OSUMC virtual histology laboratory available at: **http://histology.osumc.edu**

**Students’ responsibilities:**

Students taking this course are professional or pre-professional adult learners and as such, they are expected to take responsibility of their own learning by engaging in active learning, peer teaching, class discussion and problem-solving activities.

Arrive on time. Classes will start promptly at 9:00am. If you are late, please enter quietly and take care to minimize disturbance to your classmates. If you are late, please wait until a break to ask content related questions – this is in case the same question may have already been discussed previous to your arrival.

Students are required to read the text book BEFORE each class.

Seek help immediately
Anatomy 6331, Sp2013
Lisa MJ Lee, PhD

Course Grade: Students can earn up to 300 points:
* Points distribution is subject to change at the instructor’s discretion

Exam & Practical: 300 points total
Exam & Practical I = 150 points
Exam & Practical II = 150 points

Each Practical: 50 Points
  • 50 image based, timed questions (each question = 1pt)
  • Each image based question is allotted 1 minute to answer and it will automatically advance to the next image
  • Practical starts promptly at 9:00am (if one arrives late to the practical already in progress, the student will not be permitted to view and answer questions he/she missed and will receive 0 for those questions)
  • No questions are allowed during the practical
  • Once the practical is over, it is over and students will turn in the answer sheets (no review of the images are allowed)

Each Exam: 100 Points
  • 60 multiple choice questions (each question = 1pt)
  • 4 essay questions (students will be given 6 essay questions from which to choose 4 to answer, each answer is worth up to 10pts)
  • 2 hours are allotted (10:00am – 12:00pm)

Each exam and practical will cover only the material studied after the previous examination. However, since the mastery of histology often depends upon the retention and utilization of the previously learned material, there will be constant reinforcement. Your retention of the previously covered material may be reexamined whenever there is relevance.

Testing policy:
- Examination will be conducted under the student honor code.
- Students will be allotted two hours for each exam as specified in the schedule.
- Other than under extraordinary circumstances, NO makeup exams or extensions will be given
- Fishing questions and/or definition questions will not be entertained during exams

Grading
A: 90-100%
B: 80-89%
C: 70-79%
D: 60-69%
E: < 60%
Anatomy 6331, Sp2013
Lisa MJ Lee, PhD

Disability Services
If you have documented disabilities, please inform the course director as soon as possible to arrange necessary accommodations
# Course Schedule

*subject to change at the professor’s discretion*

<table>
<thead>
<tr>
<th>WEEK 1</th>
<th>1/22</th>
<th>T</th>
<th>9:00-12:00</th>
<th>Ch 1-4</th>
<th>Introduction, Epithelium</th>
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<tbody>
<tr>
<td></td>
<td>1/24</td>
<td>Th</td>
<td>9:00-12:00</td>
<td>Ch 4</td>
<td>Epithelium</td>
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<tr>
<td>WEEK 2</td>
<td>1/29</td>
<td>T</td>
<td>9:00-12:00</td>
<td>Ch 5-8</td>
<td>Connective Tissue, Cartilage &amp; Bone</td>
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<td></td>
<td>1/31</td>
<td>Th</td>
<td>9:00-12:00</td>
<td>Ch 8</td>
<td>Bone &amp; Ossification</td>
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<tr>
<td>WEEK 3</td>
<td>2/5</td>
<td>T</td>
<td>9:00-12:00</td>
<td>Ch 9</td>
<td>Nervous System</td>
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<tr>
<td></td>
<td>2/7</td>
<td>Th</td>
<td>9:00-12:00</td>
<td>Ch 10, 12</td>
<td>Muscle &amp; Peripheral Blood</td>
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<tr>
<td>WEEK 4</td>
<td>2/11</td>
<td>T</td>
<td>9:00-12:00</td>
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<td>EXAMINATION 1</td>
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<tr>
<td></td>
<td>2/13</td>
<td>Th</td>
<td>9:00-12:00</td>
<td>Ch 18</td>
<td>Integumentary System</td>
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<td>WEEK 5</td>
<td>2/19</td>
<td>T</td>
<td>9:00-12:00</td>
<td>Ch 11, 14</td>
<td>Circulatory System &amp; Lymphatic System</td>
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<td>2/21</td>
<td>Th</td>
<td>9:00-12:00</td>
<td>Ch 15-16</td>
<td>Digestive System</td>
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<td>WEEK 6</td>
<td>2/26</td>
<td>T</td>
<td>9:00-12:00</td>
<td>Ch 17, 19, 20</td>
<td>Respiratory, Urinary &amp; Endocrine System</td>
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<td></td>
<td>2/28</td>
<td>Th</td>
<td>9:00-12:00</td>
<td>Ch 22</td>
<td>Female Reproductive System</td>
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<td>WEEK 7</td>
<td>3/5</td>
<td>T</td>
<td>9:00-12:00</td>
<td>Ch 21, 23</td>
<td>Male Reproductive System &amp; Special Senses</td>
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<td></td>
<td>3/7</td>
<td>Th</td>
<td>9:00-12:00</td>
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<td>EXAMINATION 2</td>
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