

Course Syllabus for:

**HUMAN VISCERAL ANATOMY**

**ANAT 316 – 001 WINTER 2018**

**Credit Value: 3.0**

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**Office:** SADB rm. 1/38

**Office Hours:** By Appointment

**Lecture Room:** M1, Charles Leblond Amphitheatre

**Laboratory Room:** SADB 2/49

**Schedule Type:** MW

**COURSE DESCRIPTION:**

Human Visceral Anatomy (ANAT 316) is designed to provide students with detailed knowledge of the gross anatomy of the viscera of the human body. This course will emphasize the structural and functional relationships of the visceral organs of the thorax, abdomen, pelvis and head and neck regions of the body. The neurovascular supply of the visceral system will also be discussed. This course entails weekly lecture and laboratory components whereby students will have the opportunity to study and explore the human body through prepared cadaveric prosections. (3 Credits)

**LEARNER OBJECTIVES:**

After completion of this course, students should be able to:

1. Comfortably use anatomical terminology to describe structural characteristics, specimen/image orientation, location and functional relationships.
2. Outline and discuss the major visceral components of the thorax including the heart, lungs, and structures of the mediastinum.
3. Discuss and describe the components and structure of the skull, the cranial nerves and their corresponding foramina utilized to exit the skull.
4. Discuss and describe the components and structural relationships of the face, nasal and oral cavities, pharynx, larynx and neck.
5. Discuss and describe the visceral and neurovascular relationships of the thorax and head and neck regions.
6. Discuss and describe the muscular components and neurovascular supply of the anterior and posterior abdominal walls.

7. Discuss and describe the visceral components and neurovascular supply to the foregut, midgut, hindgut and retroperitoneal regions.
8. Discuss and describe the skeletal, muscular, visceral, and neurovascular supply to the pelvis, as well as the urogenital and anal triangles.
9. Carry out problem solving and critical thinking techniques to apply anatomical theory to common clinical implications.
10. Identify and describe all abovementioned structures on cadaveric specimens.
11. Demonstrate professional respect and responsible care of human specimens.

**Please refer to the course PowerPoint slides for the Learner Objectives of each individual lecture.**

**MCGILL POLICY STATEMENTS:**

1. **McGill University values academic integrity. Therefore, all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see [www.mcgill.ca/students/srr/honest/](http://www.mcgill.ca/students/srr/honest/) for more information). (Approved by Senate on 29 January 2003)**
2. © Instructor generated course materials (e.g., handouts, notes, summaries, exam questions, etc.) are protected by law and may not be copied or distributed in any form or in any medium without explicit permission of the instructor. Note that infringements of copyright can be subject to follow up by the University under the Code of Student Conduct and Disciplinary Procedures.
3. As the instructor of this course it is my goal to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me and the Office for Students with Disabilities (OSD).

**Office for Students with Disabilities (OSD)**

Redpath Library Building, 3459 McTavish, Suite RS-56

Phone: 514-398-6009 E-mail: [disabilities.students@mcgill.ca](mailto:disabilities.students@mcgill.ca) Website: [www.mcgill.ca/osd](http://www.mcgill.ca/osd)

4. End-of-course evaluations are one of the ways that McGill works towards maintaining and improving the quality of courses and the student's learning experience. You will be notified by e-mail when the evaluations are available on Mercury, the online course evaluation system. Please note that a minimum number of responses must be received for results to be available to students.
5. In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.
6. Additional policies governing academic issues which affect students can be found in the McGill Charter of Students' Rights (<http://www.mcgill.ca/secretariat/documents/>).

## **INSTRUCTIONAL MATERIALS & METHODS:**

**Lectures:** Monday & Wednesday, 8:35am – 9:25am; Strathcona Anatomy Building (SADB) Rm. M1

**Lab:** Tuesday - 10:35am – 12:25pm (Section 775), Wednesday - 10:35am – 12:25pm (Section 13089); Strathcona Anatomy Building Rm. 2/49

Students are responsible for all content in the lecture and laboratory notes. To complement the course notes provided, students are encouraged to explore textbooks and other online resources. The following resources have been set aside by the course director to support learners with the course content.

**Lecture materials:** Posted in MyCourses – ANAT 316: <http://mycourses2.mcgill.ca/>

**Lab materials:** Posted in MyCourses – ANAT 316: <http://mycourses2.mcgill.ca/>

**Turning Point Cloud:** Polling @ McGill (also known as the Student Response System or SRS, or previously known as clickers) is a technology-supported questioning strategy to assess students' learning and encourage active classroom participation. At McGill, we are using a web-based polling system, called TurningPoint Cloud. During a class with polling questions, students respond from their personal device (smartphone, tablet, or laptop). – You will need to download a FREE app: Responseware®! Geni Angelopoulos, Ms. <geni.angelopoulos@mcgill.ca>

Please visit the following website to set-up your free account to participate in the in-class quizzes! These will not be for grades – in-formal assessment will help give you an idea of the types of questions found on your exams! <http://www.mcgill.ca/polling/>

### **Students will need to purchase the following materials for the anatomy lab:**

- Lab coat
- Gloves
- Safety glasses

The items above can be purchased through the McGill University Bookstore.

**PLEASE NOTE:** Labs will involve the review of cadaveric prosections (already dissected material).

**Therefore, students are required to wear a lab coat, closed toe shoes and safety glasses and abide by the safety rules and regulations of the Anatomy lab at all times.** It is expected that all students come to the lab prepared to work on the self-study activities during their **assigned** laboratory section. **All students must read and electronically sign the Code of Conduct Form prior to entrance into the lab.**

**Textbook Resources:** These resources are not required. The instructor's recommendations are below. Students are encouraged to purchase a textbook that suits their study needs and habits.

- Gilroy, Anatomy an Essential Textbook, Thieme, New York, 2013 (**Highly Recommended**)
- Gilroy, Atlas of Anatomy, Third Edition, Thieme, New York, 2016 (recommended/optional)
- Rohen, J.W., Yokochi, C., Lutjen-Dreoll, E. (2015). Anatomy: A Photographic Atlas, 8th ed. Lippincott Williams & Wilkins. (**Highly Recommended**)

## **METHODS OF LEARNER ASSESSMENT/EVALUATION:**

The midterm exam will be held on **Tuesday, February 27<sup>th</sup>, 2017 (6:00pm-7:00pm)**. Final exams will occur in the official exam period. Students will NOT be allowed to write exams prior to the scheduled date. The final exams will be cumulative. The midterm and final practical exams will include both lecture and lab material.

Midterm Exam	25%
Lab Quizzes (4 @ 2.5% each)	10%
Final Exam	45%
<u>Lab/Practical Exam</u>	<u>20%</u>
	100%

**The passing grade in the Faculty of Medicine and Faculty of Education for core program courses is 55%. In the case of justified absence with valid documentation at the midterm examination, the final practical examination and written examination will each be worth 30 and 60% respectively.**

## **QUIZ WEEKS:**

- QUIZ 1: JANUARY 29<sup>TH</sup> TO FEBRUARY 2<sup>ND</sup>
- QUIZ 2: FEBRUARY 19<sup>TH</sup> TO FEBRUARY 23<sup>RD</sup>
- QUIZ 3: MARCH 12<sup>TH</sup> TO MARCH 16<sup>TH</sup>
- QUIZ 4: APRIL 3<sup>RD</sup> TO APRIL 6<sup>TH</sup>

## **GRADING**

The Department of Anatomy & Cell Biology will **NOT** revise/upgrade marks except on sound academic grounds. Once computed, the marks in this course will **NOT** be altered/increased arbitrarily. Decimal points will be “rounded off” as follows: if the final aggregate mark is computed to be 79.5%, the mark will be reported as 80% (an A-); a final aggregate mark of 79.4% will be reported as 79% (a B+). These marks are **FINAL and NON-NEGOTIABLE**.

**For policies regarding re-assessments or re-grades please refer to the following link:**

### **Faculty of Medicine – Physical/Occupational Therapy Program**

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[https://www.mcgill.ca/spot/files/spot/b.sc\\_rehabilitation\\_science\\_major\\_in\\_physical\\_therapy\\_rules\\_and\\_regulations\\_2016-17\\_current.pdf](https://www.mcgill.ca/spot/files/spot/b.sc_rehabilitation_science_major_in_physical_therapy_rules_and_regulations_2016-17_current.pdf)

### **Faculty of Education – Kinesiology Program**

[http://www.mcgill.ca/study/2016-2017/faculties/education/undergraduate/ug\\_edu\\_examinations](http://www.mcgill.ca/study/2016-2017/faculties/education/undergraduate/ug_edu_examinations)

**For all other programs, please contact your student affairs advisor for further information.**

### ANAT 316 - Course Schedule

Week	Monday (Lecture)	Wednesday (Lecture)	Tuesday / Wednesday Labs
1	Jan 8. Lecture 1: Introduction to Visceral Systems	Jan 10. Lecture 2: The Pleura, Lungs and Tracheobronchial Tree	No Labs This Week.
2	Jan 15. Lecture 3: The Heart & Coverings	Jan 17. Lecture 4: Coronary Circulation & Innervation	Jan 16/17 Lab 1: The Pleura and Lungs
3	Jan 22. Lecture 5: The Mediastinum	Jan 24. Lecture 6: Bones of the Skull	Jan 23/24 Lab 2: The Heart & Mediastinum
4	Jan 29. Lecture 7: Cranial Nerves I	Jan 31. Lecture 8: Cranial Nerves II	Jan 30/31 Lab 3: Bones of the Skull
5	Feb 5. Lecture 9: The Face	Feb 7. Lecture 10: Nasal Cavities & Sinuses	Feb 6/7 Lab 4: The Cranial Nerves
6	Feb 12. Lecture 11: The Oral Cavity & Mastication	Feb 14. Lecture 12: Pharynx & Larynx	Feb 13/14 Lab 5: The Face, Nasal and Oral Cavities
7	Feb 19 Lecture 13: The Neck	Feb. 21. Lecture 14: MIDTERM REVIEW	Feb 20/21 Lab 6: The Pharynx, Larynx & Neck
8	Feb 26. Lecture 15: Introduction to the Abdomen	Feb 28. Lecture 16: The Foregut	Feb 27/28 COMMEMORATIVE SERVICE LECTURE (Mandatory)
9	Mar 5. No Lectures: Reading Week	Mar 7. No Lectures: Reading Week	Mar 6/7 NO LABS THIS WEEK
10	Mar 12. Lecture 17: The Midgut & Hindgut	Mar 14. Lecture 18: The Posterior Abdominal Wall	Mar 13/14 Lab 7: Anterior abdominal wall and the Foregut
11	Mar 19. Lecture 19: Innervation, Venous & Lymphatic Drainage of the Gut	Mar 21. Lecture 20: The Pelvic Floor & Introduction to Pelvic Viscera	Mar 20/21 Lab 8: The Midgut and Hindgut and Posterior Abdominal wall
12	Mar 26. Lecture 21: Male vs. Female Pelvic Viscera	Mar 28. Lecture 22: The Neurovascular Supply of the Pelvis	Mar 27/28 Lab 9: Pelvic Floor and Viscera
13	Apr 2. EASTER MONDAY No Classes	Apr 4. Lecture 23: The Perineum – The Urogenital Triangle	Apr 3/4 Lab 10: Neurovascular Supply to the Pelvis
14	Apr 9. Lecture 24: The Perineum – The Anal Triangle	Apr 11. Lecture 25: Review for Final	Apr 10/11 Lab 11: The Urogenital and Anal Triangles
15	Apr. 16 Potential Open Anatomy Lab Lab Review (Last day of classes)		