Applied Head and Neck Anatomy for Graduate Orthodontist (9636)

Course Outline
2021

1. Course information

Name: Applied head and neck anatomy for graduate orthodontist
Number: 9639

Organization:

There are pre-recorded lectures each week which will cover the basics of head and neck anatomy. Students are expected to have reviewed the basic structures described in these lectures before each class. We will meet in MSB 447 to discuss the lecture content before proceeding to the lab to begin the dissections. The laboratories include detailed dissecting of specific areas of the head and neck.

Location: MSB 447 (Lecture)
DSB 4001 (Laboratory)

Days & hours: Tuesdays: 8:00am – 11:00am (Lecture/Laboratory)
Thursday: 8:00am – 11:00am (Lecture/Laboratory)

OWL site:
This course OWL site will be used to share lecture material, grades, announcements and laboratory regulations. Students can seek support for technical difficulties using this service through the Computer Support Centre at (519) 661 3800

2. Instructor Information

Dr. Michele Barbeau, PhD – Course Coordinator

Email: mbarbeau@uwo.ca
Office: MSB 489

3. Course description

The purpose of this course is to review some of the basic concepts of head and neck anatomy and to consider, in detail, those aspects of interest to the orthodontist. The
course consists of practical, reviews, and detailed dissections of specific areas of the head and neck. The detailed anatomy is reinforced with application to clinical scenarios.

**Course objectives:**

- Identify using cadaveric dissections the major structures of each anatomical region.
- Provide examples of how the anatomical knowledge can inform clinically relevant problems which are specific for orthodontist.
- Develop the skills to correlate anatomical relationships with injury mechanisms or congenital abnormalities.

**Assessment conditions:**

- A minimum of 75% attendance is required for all the components of this course.
- Passing averages will follow the regulations of the School of Graduate and Postdoctoral Studies.

**Plagiarism:**

Senate regulations require all Instructors to include the following statements on plagiarism, cheating and proficiency in English in the course outline:

“Students must write their essays and assignments in their own words. Whenever students take an idea or passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar)”

Course Schedule (next page)
Applied Head and Neck Anatomy for Graduate Orthodontist (9636)

Course Schedule Fall 2021

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<th>Date</th>
<th>Topic</th>
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<tr>
<td>Tues Sept 14</td>
<td>Introduction and Lab Orientation</td>
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<tr>
<td>Thurs Sept 16</td>
<td>Cranial Cavity</td>
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<tr>
<td>Tues Sept 21</td>
<td>Cranial Cavity and Bone</td>
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<tr>
<td>Thurs Sept 23</td>
<td>Orbit</td>
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<tr>
<td>Tues Sept 28</td>
<td>Face and Scalp</td>
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<td>Thurs Sept 30</td>
<td>Face and Scalp</td>
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<td>Tues Oct 5</td>
<td>Infratemporal fossa</td>
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<td>Thurs Oct 7</td>
<td>Infratemporal fossa</td>
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<tr>
<td>Tues Oct 12</td>
<td>Pterygopalantine fossa</td>
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<tr>
<td>Thurs Oct 14</td>
<td>Pterygopalantine fossa</td>
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<tr>
<td>Tues Oct 19</td>
<td>Oral cavity</td>
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<tr>
<td>Thurs Oct 21</td>
<td>Oral cavity</td>
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<tr>
<td>Tues Oct 26</td>
<td>Neck – Anterior triangle</td>
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<td>Thurs Oct 28</td>
<td>Neck – Posterior triangle</td>
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<td>Tues Nov 2</td>
<td>No class</td>
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<td>Thurs Nov 4</td>
<td>Dissection catch up</td>
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<td>Tues Nov 9</td>
<td>Pharynx and Larynx</td>
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<td>Thurs Nov 11</td>
<td>Pharynx and Larynx</td>
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<td>Tues Nov 16</td>
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<tr>
<td>Thurs Nov 18</td>
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<td>Tues Nov 23</td>
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<td>Student Presentations</td>
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<td>Thurs Dec 1</td>
<td>Review - Nerves</td>
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<tr>
<td>Tues Dec 7</td>
<td>Final Exam</td>
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4. Course Materials

Lectures:

Lectures are designed to facilitate the student’s own ability to integrate and learn the complete anatomy of the specific head and neck region. Lectures have been pre-recorded and students are expected to have reviewed them prior to the lab session. Lecture slides in e-format will be posted in the OWL site.

Audiovisual aids:

Clinically relevant procedures and dissecting guide videos will be posted in the OWL site to emphasize the clinical importance of an area and to facilitate student’s learning at the laboratory.
Laboratory Dissection:

Students will be assigned a cadaveric specimen for their individual detailed dissections. Dissections prepared by experienced anatomists, prosections, will be available to demonstrate regional anatomical structures. Students will be instructed during lecture time about the expected procedures for each laboratory session. For additional assistance during dissection students are encouraged to use an atlas. Atlases are provided in the lab and must remain inside the lab.

Texts and supplemental material:

- M. Clin. Dents Anatomy (9636) Course notes – Department of Anatomy UWO
- The Anatomical Basis of Dentistry by Liebgot, 3rd Edition, Mosby (suggested)

The Anatomy Learning Centre:

The anatomy learning centre is located in room DSB 4002, it houses plastic models of most anatomical structures. Students may access the learning centre during regular hours of each weekday, if no class is present.

5. Methods of Evaluation

Dissections of anatomical regions (anatomy labs) 40%
Clinical Case Presentation (Nov 23 and 25) 20%
Final written examination (Dec 7) 20%
Practical oral examination 20%

Note: rubrics will be provided to help students prepare and understand assignments more comprehensively.

6. Laboratory Rules and Regulations

6.1. Medical Sciences Building Room 483 and Dental Sciences Building Room 4001 are for students enrolled in Anatomy courses only and may not be entered by any unauthorized persons. Do not bring anyone or allow entrance to anyone into these rooms with your access card. You are expected to be in the lab for the entirety of your posted lab times. Email Haley.Linklater@schulich.uwo.ca with any issues related to accessing the lab outside of regular lab time.

6.2. While in the lab, you will work with cadavers and cadaveric specimens. Your work station, and instruments are shared with other students and must be washed and disinfected before you leave the lab each day. Respect for our donors is paramount and it is important to leave them and your work station in a clean and organized fashion. See procedures for cleaning and disinfection for steps to follow.
6.3. Students are assigned a locker to share with their group, you must leave your personal effects in this locker while you’re in the lab. No backpacks or personal effects are allowed in the lab.

6.4. Cell phones and cameras are prohibited.

6.5. You are given access to a specific bone box at your table to utilize during lab time. These bones are delicate and should be treated carefully. It is expected that at the end of the year these bones will be accounted for and in good condition, otherwise you or your group may be responsible for the purchase of a new set.

6.6. Students MUST come to the lab in appropriate attire. Lab coats, surgical gloves, and safety glasses must be worn at all times. Safety glasses must be worn over your regular glasses unless they are prescription safety eyewear. Footwear must be closed toe. It is equally as important to remove your gloves before you leave the lab. Lab coats and safety glasses should be kept in your assigned anatomy locker. Due to Covid-19 protocols, surgical masks must be worn indoors.

6.7. There is to be no food or drink in the lab.

If these, or other rules are not followed, you may be asked to leave the laboratory.

7. Additional Information and General Rules

Statement on Academic Offences

Scholastic offenses are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:


Support Services
There are various support services across campus, and these include:

Student Development Centre -- http://www.sdc.uwo.ca/ssd/
Student Health -- http://www.shs.uwo.ca/student/studenthealthservices.html

Registrar’s Office -- http://www.registrar.uwo.ca/
Ombuds Office -- http://www.uwo.ca/ombuds/
Academic Counselling (Science & Basic Medical Sciences):
http://www.uwo.ca/sci/counselling/index.html
Students who are in emotional/mental distress should refer to Mental Health@Western
http://www.uwo.ca/uwocom/mentalhealth/ for a complete list of options about how to obtain help.

Respectful Learning Environment (Atmosphere Copyright © 2005 Lippincott Williams & Wilkins)

“We can all learn from each other. To encourage the free and open sharing of information and ideas, we must all work together to develop a respectful and supportive environment. Disrespectful or discourteous behaviour is inappropriate and unacceptable in the classroom.”