

Applied Head and Neck Anatomy for Graduate Orthodontist (9636)

Course Outline

2020-2021

1. Course information

- Name: Applied head and neck anatomy for graduate orthodontist
- Number: 9636
- Organization: There are two lectures and one lab per week. Lectures will cover the basics of head and neck anatomy while discussing in detail their relevance for the practice of orthodontics. The laboratories include detailed dissecting of specific areas of the head and neck.
- Location: MSB 193AB (Lecture)
DSB 4001 (Laboratory)
- Days & hours: Tuesdays 09:00 a.m. – 10:30 a.m. (Lecture – via Zoom)
Thursdays 09:00 a.m. – 10:00 a.m. (Lecture – in person)
10:00 a.m. – 12:00 a.m. (Laboratory)
- Office hours: There will not be designated office hours for this course. Nevertheless, enquires can be sent using the OWL messaging system.
- 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. Santiago Cobos, D.D.S., M.Sc., Ph.D. candidate – Course Coordinator

Email: scobos@uwo.ca

Office: Robarts Research Institute (5th floor)

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 practical demonstrations of surgical procedures used by plastic and maxillofacial surgeons.

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)

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Course Schedule (2020-2021)

Date	Time	Topic
Thursday, Sep 10	09:00 - 10:00am	Introduction to the course
	10:00 - 12:00am	Face and scalp
Tuesday, Sep 15	09:00 - 10:30am	Muscles of facial expression
Thursday, Sep 17	09:00 - 10:00am	Muscles of facial expression
	10:00 - 12:00am	Face and scalp
Tuesday, Sep 22	09:00 - 10:30am	Introduction to the Skull
Thursday, Sep 24	09:00 - 10:00am	Face and scalp (face lift)
	10:00 - 12:00am	Submandibular region
Tuesday, Sep 29	09:00 - 10:30am	Internal structure of the Skull
Thursday, Oct 01	09:00 - 10:00am	Inferior surface of the skull (facial nerve)
	10:00 - 12:00am	Temporal fossa
Tuesday, Oct 06	09:00 - 10:30am	Submandibular region
Thursday, Oct 08	09:00 - 10:00am	Infratemporal fossa
	10:00 - 12:00am	Infratemporal fossa and TMJ
Tuesday, Oct 13	09:00 - 10:30am	Muscles of mastication (Sagittal split)
Thursday, Oct 15	09:00 - 10:00am	Pterygopalatine fossa
	10:00 - 12:00am	Infratemporal fossa and TMJ
Tuesday, Oct 20	09:00 - 10:30am	TMJ Disc analysis (T.M.J. Autopsies)
Thursday, Oct 22	09:00 - 10:00am	Pterygopalatine fossa
	10:00 - 12:00am	Muscles of mastication
Tuesday, Oct 27	09:00 - 10:30am	Infratemporal fossa (Dept joint and disc analysis)
Thursday, Oct 29	09:00 - 10:00am	Trigeminal nerve
	10:00 - 12:00am	Mouth and tongue
Tuesday, Nov 03	09:00 - 10:30am	Oral cavity
Thursday, Nov 05	09:00 - 10:00am	Tongue
	10:00 - 12:00am	Mouth and tongue
Tuesday, Nov 10	09:00 - 10:30am	TLC Orthognatic surgery (Palate)
Thursday, Nov 12	09:00 - 10:00am	Pharynx
	10:00 - 12:00am	Pharynx
Tuesday, Nov 17	09:00 - 10:30am	Pharynx
Thursday, Nov 19	09:00 - 10:00am	Nasal Cavity and sinuses
	10:00 - 12:00am	Nasal Cavity
Tuesday, Nov 24	09:00 - 10:30am	Pterygopalatine fossa
Thursday, Nov 26	09:00 - 10:00am	Orbital cavity
	10:00 - 12:00am	Pterygopalatine fossa
Tuesday, Dec 01	09:00 - 10:30am	Blood supply of the cranial cavity
Thursday, Dec 03	09:00 - 10:00am	Review One
	10:00 - 12:00am	Pterygopalatine fossa
Tuesday, Dec 08	09:00 - 10:30am	Review Two

Final Examination

Thursday, Dec 17	09:00 - 12:00am	2 Hours written – 15 min practical <i>(changes may be made during the term, if needed)</i>
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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 – attendance is required. Lecture slides in e-format will be posted in the OWL site at least one session in advance.

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)
- Grant's Atlas of Anatomy. Agur, 14th Edition, Williams and Wilkins (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 %
Critical review of scientific literature	10 %
Final written examination	30 %
Practical oral examination	20 %

Note: rubrics will be timely 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.
- 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:

<http://www.uwo.ca/univsec/handbook/appeals/scholoff.pdf>

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."