

University of Detroit Mercy School of Dentistry

Department of Biomedical Sciences

Course Syllabus

Head & Neck Anatomy BS 812

Course Information

Web Address: <http://knowledge.udmercy.edu>

Course Directors:

William C. Forbes, D.D.S.

Office: 238 Manning Hall

Office Hours: 10-12:00 noon, M, T, or by
appointment

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Winter Term , 2008

DH1 Students (Class of 2009)

Room 2440

Tuesdays, 1:00-3:00 P.M.

Credit Hours: 2

Prerequisites: BS 811 Anatomy

Lecturers/Support Faculty

Lecturers:

William C. Forbes, D.D.S.

Academic Policies:

All policies in the School of Dentistry Academic Policies Handbook including but not limited to academic integrity, mandatory attendance, professional decorum & dress code, identification (ID) badges, preclinical and classroom decorum, use of cell phone and electronic devices, examination policies and exam/quizzes apply.

Accommodations:

If you would like to request a classroom, testing, preclinical, clinical, or other accommodation because of a legally protected disability, or if you might require any special assistance in the event of an emergency or evacuation, please contact the University of Detroit Mercy's Office of University Academic Services (UAC) at 313-578-0310 or email your request for information to gallegem@udmercy.edu

Student Evaluation of Instruction

Student feedback is valued by the faculty and the administration. All students are required to complete the School of Dentistry's on-line course evaluation by a specified date. Failure to comply by posted deadline dates will result in the receipt of an F (Failing) grade of record for the Evaluation Responsibility Course. Only constructive, professional recommendations will be reported and considered.

Course Description

Purpose of the course:

The purpose of the course is to provide foundation knowledge in the anatomy of the head and neck that will prepare the student for other courses in the dental hygiene curriculum, and for the practice of dental hygiene.

Course Goals:

This course will introduce the student to the anatomy of the head and neck. The course will introduce basic concepts of and or clinical practice in:

- Nomenclature regarding the anatomy of the head and neck, including planes.
- Surface anatomy of the head and neck, and the underlying structures that form it, particularly as it pertains to the physical examination of a patient.
- Bony anatomy of the head and neck, with emphasis on temporomandibular joint.
- Muscles of head and neck, with emphasis on muscles of mastication and muscles of facial expression.
- Blood supply and lymphatics of the head and neck, especially as they pertain to dentistry: direction of flow, spread of infection, metastasis and the like
- The glandular tissue of the head and neck, with emphasis on salivary glands.
- The nervous system of the head and neck, including autonomic nervous system, and emphasizing the sensory innervation of structures pertaining to dentistry. The anatomy of local anesthesia is discussed extensively.

- The anatomy of the pharynx and larynx.
- The surface anatomy of the oral cavity, along with the underlying structures that form it.

Specific Instructional Objectives:

At the conclusion of learning unit one, the dental hygiene student will be able to:

- Identify and describe the bones of the head and neck, including the workings of the temporomandibular joint.

At the conclusion of learning unit two, the dental hygiene student will be able to:

- Describe the blood flow and lymphatic system of the head and neck, and their relevance to spread of infection, metastasis and venous plexuses.

At the conclusion of learning unit three, the dental hygiene student will be able to:

- Describe the nervous system of the head and neck, especially the sensory innervation of oral and dental structures. Describe the practice of local anesthesia with regard to those structures. Describe the autonomic nervous system, and its effects on dental hygiene practice, like salivary flow and heart rate.

At the conclusion of learning unit four, the dental hygiene student will be able to:

- Describe the anatomy of the pharynx, larynx and surface anatomy of the head and neck.

Instructional Methods:

Class lecture sessions will be presented using a lecture/discussion format, mediated with blackboard drawings, overhead transparencies, color slides as appropriate. Laboratory sessions will incorporate the use of a variety of anatomical models, particularly skulls. Graphics, illustrations, and photographs will also be used. Prosected cadavers will be utilized to a limited degree, for observation but not dissection. Models are on reserve in library.

	Competencies of the Graduating Dental Hygiene Student	Addressed	Evaluated	Method
1.	The graduate demonstrates interpersonal communication skills to function successfully in a multicultural work environment with diverse populations.	NO	NO	NA NA NA
2.	The graduate makes professional decisions affecting the practice of dental hygiene that satisfy legal, societal and ethical principles.	NO	NO	NA NA NA
3.	The graduate performs routine evaluation of self and staff members and takes corrective action to address perceived deficiencies.	YES	F	Written Evaluation NA NA
4.	The graduate critically evaluates the validity of new information, new products, and/or techniques and their relevance to the practice of dental hygiene.	NO	NO	NA NA NA
5.	The graduate applies business and practice management skills.	NO	NO	NA NA NA
6.	The graduate promotes health maintenance and disease prevention.	YES	NO	NA NA NA
7.	The graduate applies the principles of infection control and environmental safety.	YES	NO	NA NA NA
8.	The graduate obtains, records, updates and organizes accurate and complete medical/dental histories including pertinent psychological and socioeconomic information.	NO	NO	NA NA NA
9.	The graduate performs, records and organizes a physical assessment appropriate for dental care.	NO	NO	NA NA NA
10.	The graduate determines differential, provisional or definitive dental hygiene diagnoses related to and	YES	F	Written Evaluation

	congruent with the diagnosis of the dentist and other health professionals.			NA NA
11.	The graduate develops alternative dental hygiene care plans which are sequenced to address patients' needs, consistent with assessment and diagnoses.	NO	NO	NA NA NA
12.	The graduate establishes with the patient a mutually acceptable dental hygiene care plan.	NO	NO	NA NA NA
13.	The graduate monitors and provides for patient comfort associated with dental hygiene care.	YES	F	Written Evaluation NA NA
14.	The graduate delivers and/or manages planned dental hygiene treatment and education in sequence and in accordance with accepted standards of care.	NO	NO	NA NA NA

Course Policies

Attendance is required for all lectures and laboratory sessions. If a student misses a class for any reason, this course will follow the format described in the Academic Policies Handbook, pages 40 and 75. Every lecture session will begin with a quiz. A student may take the quiz if he or she arrives at class before the quiz is over. The quiz with the lowest grade in each category will be dropped.

Examinations will be given promptly at the time announced, and will close at the time announced, with extra time not allowed, even if the student arrives late to take the examination.

Specific policies regarding conduct in the Anatomy Laboratory are listed below:

Conduct in Gross Anatomy Laboratory

1. Cadavers shall be treated with dignity and respect.
2. All identifying information about the cadaver is confidential.
4. Students may dissect if they want to, under the supervision of the instructor, but may not dissect or alter cadavers assigned to other students.
5. Human tissues, including prosections, bones and skeletons, may not be removed from the laboratory area.
6. Neither the cadaver nor any part thereof may be photographed or videotaped.
7. Neither the cadaver nor any parts thereof are to be positioned or displayed in an inappropriate, comical or obscene manner.
8. Visitors are allowed only with the prior permission of the Course Director.
9. No eating, drinking or smoking in the laboratory. No radios during regular laboratory hours.

The Cadavers

The age and cause of death of each donor is posted in the laboratory. Always be cognizant of the fact that your cadaver is the body of someone's loved one; treat it as you would wish your own body, or that of a family member, to be treated. Virtually any procedure is appropriate if your motivation is to learn in order to be able to help others.

The privilege of dissection is made possible by the generosity of donors and their families. It is their intent that you make full use of the opportunity to learn from their gift. Fulfill their expectations and honor their wishes by dissecting with purpose and respect.

Textbook and Resource Materials

REQUIRED TEXTBOOK:

Illustrated Anatomy of the Head & Neck,
Fehrenbach, Margaret, and Herring, Susan.
WB Saunders, Second Edition, 2002.

Gray's Anatomy for Students, Drake, Richard L.; Vogl,
Wayne; and Mitchell, Adam W.M. Elsevier Publishing

REFERENCE TEXTBOOKS:

Any book on Anatomy, especially an atlas, may be
useful to you as reference in this course.

Available for your use in Anatomy
Laboratory, Room 109: *Atlas of Human Anatomy*,
Netter, Frank, M.D., CIBA-GEIGY Corp. 1989.

USEFUL WEBSITES:

Students may find it helpful to go to
www.studentconsult.com for useful information linked to *Gray's
Anatomy for Students*.

Evaluation and Grading

Students will be evaluated on the basis of two comprehensive examinations, as well as weekly quizzes. Midterm and final examinations will be multiple choice format. The lowest quiz grade will be dropped. If you miss a quiz, it will be considered your lowest grade. There will be no make-ups. There are 300 possible points in this course. Points are achieved as follows:

Midterm Examination:	100 points
Final Examination:	100 points
Quiz Average:	100 points

Grades are as follows:

282 – 300 points	A
270 – 281 points	A-
261 – 269 points	B+
252 – 260 points	B
240 – 251 points	B-
231 – 239 points	C+
222 – 230 points	C
210 – 221 points	C-
180 – 209 points	D
179 and below	F

Course Evaluation Methods

Quizzes

Quizzes will be given at the beginning of each session. Students may take the quiz if they arrive before the quiz is over. Students will be allowed to make up quizzes for excused absences.

Midterm Examination

The Midterm Examination will cover lecture material presented during Sessions 1-8.

Final Examination

The Final Examination will be cumulative, with emphasis on material presented since the Midterm Examination.

COURSE SCHEDULE**Lecture and Laboratory Schedule**

DATE	TOPICS OF DISCUSSION	READINGS/ASSIGNMENTS FEHRENBACH 2nd Edition	READINGS/ASSIGNMENTS FEHRENBACH 3rd Edition
Tuesday, January 22 Session 1	Surface Anatomy, Skull	Handout: Surface Anatomy Fehrenbach 12-23, 32- 45	Handout: Surface Anatomy Fehrenbach 12-23, 37- 49
January 29 Session 2	Skull	46-72	50-72
February 5 Session 3	Neck Bones Muscles of Facial Expression	72-78, 94-118 (skip 109-113)	72-78, 94-116 (skip 109-112)
February 12 Session 4	Muscles of Mastication Temporomandibular Joint	Handout: TMJ 109-113, 136-141	Handout: TMJ 109-112, 131-135
February 19 Session 5	Blood Supply to the Head Glandular Tissue	148-159, 161, 175-183	142-152, 155, 169-176
February 26 Session 6	Head & Neck Examination Lymphatics	Handout: Lymphatic System 260-274	Handout: Lymphatic System 250-264
March 4 Session 7	Nervous System	189-212 (disregard 201)	183-206 (disregard 194, bottom)
March 11 Session 8	Nervous System (cont'd)	189-220 (disregard 201)	183-206 (disregard 194, bottom)
March 18 Session 9	MIDTERM EXAMINATION		
March 25 Session 10	Anatomy of Local Anesthesia	221-254	217-245
April Fool's Day	SPRING BREAK		
April 8 Session 11	Anatomy of Local Anesthesia	Handout: Anatomy of Local Anesthesia 221-254	Handout: Anatomy of Local Anesthesia 217-245
April 15 Session 12	Pharynx and Tongue Triangles of the Neck	113-125 24-26	112-122 24-26
April 22 Session 13	Larynx	<i>Gray's Anatomy for Students, 949-960</i>	<i>Gray's Anatomy for Students, 949-960</i>
April 29 Session 14	Nasal Cavity, Paranasal Sinuses		

The Final Examination will be given during the Final Exam Period. The date will be announced.