

University of Detroit Mercy School of Dentistry
Department of Biomedical Sciences
Course Syllabus

**Anatomy
BS 811**

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, W or
by appointment
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Fall Term , 2007

DH1 Students (Class of 2009)
Manistee Room.
Anatomy Laboratory, Health Sciences Building
Wednesday, 9:00-11:50 A.M.

Credit Hours: 2

Prerequisites: None

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 anatomy to prepare the student for further study in the dental school, and for dental hygiene practice.

Course Goals:

This course will introduce the student to anatomical structures, and their relationships. The course will introduce concepts of:

- Normal human anatomy, with emphasis on those structures germane to dentistry.
- Anatomical variation, and how it applies to different structures of the body.
- Clinical applications of human anatomy to the practice of dental hygiene.
- Anatomical structures as they pertain to the physical examination of the patient, and to radiographic images.

Specific Instructional Objectives:

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

- Use anatomical nomenclature, including planes.
- Identify basic parts of the human skeleton.
- Describe the nervous system of the human body, including spinal nerves, and the 12 cranial nerves.

- Describe the major features of surface anatomy pertaining to the face, and identify the underlying structures.
- Describe the human heart in detail, including functional as well as anatomical information.

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

- Describe the lymphatic system and its components.
- Describe the digestive system and its components.
- Describe basic information pertaining to the autonomic nervous system of the human body.
- Describe the surface anatomy of the oral cavity, and the underlying structures.
- Describe the major components of the neck, and how they impact the anatomy of the head and the torso.
- Discuss carpal tunnel syndrome: its anatomy, treatment and prevention.

Instructional Methods: Class lecture sessions will be presented using a lecture/discussion format, mediated with blackboard drawings, overhead transparencies, powerpoint presentations as appropriate. Students are encouraged to bring questions and their own previous experiences to bear on these discussions. Students may be called upon to make presentations to the class on various aspects of Anatomy. Laboratory sessions will utilize written exercises incorporating the use of a variety of prosected cadavers, anatomical models, and skeletons. Graphics, illustrations, and photographs will also be used. Prosected cadavers will be utilized primarily for observation, with opportunities for limited dissection under instructor's supervision only for those students desiring to do so.

Some topics pertaining to the Head & Neck are inserted into this semester, in order to prepare the student for topics in other subjects that they will encounter late in Fall Semester, or early in Winter Semester. These topics will be re-visited in BS 812, with emphasis on clinical application.

School of Dentistry Competencies

Competency-based Education: Assumes that learning to become an entry-level professional is a progression through stages from novice to competent.

	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	Practical Examination Written Evaluation
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	F	Practical Examination Written Evaluation
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.	YES	NO	NA NA NA

10.	The graduate determines differential, provisional or definitive dental hygiene diagnoses related to and congruent with the diagnosis of the dentist and other health professionals.	NO	NO	NA 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.	NO	NO	NA 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. Each student's lowest quiz grade 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 the 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: *Gray's Anatomy for Students*, Drake, Richard L.; Vogl, Wayne; and Mitchell, Adam W.M. Elsevier Publishing

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

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 weekly quizzes, lab exercises, and a comprehensive final examination as follows:

- 25% 8 weekly quizzes (drop lowest quiz grade)
- 25% midterm written examination
- 25% final written examination
- 25% laboratory grade:
 - laboratory exercises (noted but not graded)
 - laboratory tests at midterm and final exams

The lowest quiz grade will be dropped. If the student misses a quiz during an unexcused absence, it will be considered the lowest quiz grade.

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 1-7.

Final Examination

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

COURSE SCHEDULE

Lecture and Laboratory Schedule Texts: Drake, *Anatomy for Students*, and Fehrenbach & Herring, *Illustrated Anatomy of the Head & Neck*, 2nd Edition

DATE	TOPIC OF DISCUSSION	HANDOUTS	READINGS IN FEHRENBACH	READINGS IN GRAY'S
Wednesday, Aug 15 9:00-11:50 A.M. Manistee Room	Introduction to Anatomy Anatomical Nomenclature	Introduction to Anatomy Anatomical Nomenclature	1-9	
Wednesday, Aug 22	Skull and Cervical Vertebrae	Skeleton		754, 764, 766, 768
Wednesday, Aug 29	Spinal nerves Cranial nerves	Introduction to the Nervous System "Cliff's Notes": Cranial nerves		17, 18, 20, 21
Wednesday, Sept 5	The Face			810-816, drawings only
Wednesday, Sept 12	Temporal Fossa, Infratemporal Fossa Temporomandibular Joint			872-884 disregard: 879, 880, 883
Wednesday, Sept 19	The Heart, External Structures			157-168
Wednesday, Sept 26	The Heart, Internal Structures			172, 176, 178, 186
Wednesday, Oct 3	MIDTERM EXAMINATION			
Wednesday, Oct 10	Lymphatics Pharynx			934, 935, 939, 940, 941, 944 drawings only
Wednesday, Oct 17	Digestive System	Digestive System		269, 270, 276, 279, 289, 290 drawings only
Wednesday, Oct 24	Autonomic Nervous System	Autonomic Nervous System		
Wednesday, Oct 31	Oral Cavity			Drawings: 8.237, 8.238, 8.241, 8.251-8.258
Wednesday, Nov 7	Surface Anatomy		10-24	Drawings: 1014-1022 disregard: 8.271, 8.275
Wednesday, Nov 14	Carpal Tunnel & Review	Carpal Tunnel Handout		
Wednesday, Nov 21	The Neck	The Neck		

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