

Course Information

Course Number: DDHS 3250
Course Title: Biomedical Sciences I
Section: Fall 2024
Time: Tu, 1-2 pm; W, 10-12 am; Th, 1-2 pm; F, 1-2 pm
Location: Room 310; Labs 30 & 14
Credit Hours: 5

Instructor Details

Course Director: *Yongbo Lu*
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Course Co-Director: *Leigh Ann Nurick*
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Instructor: *Chunlin Qin*
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Instructor: *Bruno Ruest*
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Instructor: *Mikhail Umorin*
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Instructor: *Chi Zhang*
Office: *Room 405*
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Instructor: *Joshua Crawford*
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Office Hours: *TBA*

Course Description

This course is designed to provide the dental hygiene student with a basic introduction to the structure of the human body, including its anatomy, biochemistry, histology, and physiology. Emphasis is placed on the structures of the head and neck region that surrounds the oral cavity.

Course Prerequisites

No prerequisites are required to take this course.

Course Learning Outcomes

For most topics, instructional objectives are provided at the beginning of each lecture.

Learning Outcomes/Competencies:

- 2.1 - Apply critical thinking skills and evidence-based decision making to the practice of dental hygiene.*
- 2.2 - Commit to self-assessment and lifelong learning in order to provide contemporary clinical care.*
- 3.1 - Prepare for career opportunities within health care, industry, education, research, and other roles as they evolve for the dental hygienist.*
- 3.3 - Contribute to the knowledge base of dental hygiene.*
- 6.1 - Determine medical conditions that require special precautions or consideration prior to or during dental hygiene treatment.*
- 6.2 - Perform an extraoral and intraoral examination of the patient including assessment of vital signs and radiographic examination, and distinguish normal from abnormal findings.*
- 6.3 - Manage the patient at risk for a medical emergency, and be prepared to handle the emergency should it occur during an appointment.*
- 6.4 - Recognize predisposing, etiologic risk factors, and life style choices that may require intervention to prevent disease.*
- 6.5 - Analyze and interpret the assessment data to formulate a dental hygiene diagnosis related to and congruent with the diagnosis of the dentist and other health professionals.*
- 6.6 - Determine the need for referral to the appropriate health professional.*
- 8.2 - Control pain and anxiety during treatment through the use of accepted clinical techniques and appropriate behavioral management strategies.*

Textbooks and/or Resource Materials

Principles of Anatomy and Physiology, 15th Edition, Tortora and Derrickson, 2016

ISBN #: 978-1-119-32064-7

Illustrated Anatomy of the Head and Neck, Fehrenbach MJ & Herring SW; 6th Ed; ISBN: 978-0-323-61301-9

Illustrated Dental Embryology, Histology, and Anatomy, Fehrenbach MJ & Popowics T; 5th Ed; ISBN: 978-0-323-61107-7

In addition to the textbooks, the instructor's Power Point presentations and Camtasia recordings of the lecture (if available) will be posted on Canvas (<https://canvas.tamu.edu/>). Students are encouraged to prepare for the lectures and displays by reading assigned material ahead of time. Students are also encouraged to form study groups to discuss and ask questions about lecture and display material. The displays are designed to reinforce material covered in lectures using models, demonstrations, and participatory activities. Students are urged to use this time to interact with instructors and ask questions to strengthen their knowledge.

Grading Policy

Six major exams worth a total of 460 points and seven quizzes worth a total of 70 points are scheduled during this semester. Exams and quizzes will be administered using ExamSoft electronic testing software (<https://ei.examssoft.com/GKWeb/login/tamdental>). The lowest quiz score will be dropped, making 520 total points available. On the exams, students must be able to demonstrate their knowledge of material presented in: (1) the assigned textbook sections, (2) the lectures, and (3) the displays. These written exams may consist of a combination of multiple choice, true/false, matching, diagram labeling, completion, structure identification on an image/picture, and short discussion type questions. The class performance may be curved up to 79% on major exams. Additionally, students may be awarded up to 5 points extra credit for each of these assignments/activities, osteology activity, perioral muscles display, muscle activity, blood vessels activity, and cranial nerves activity. Final grades will be based on the

percentage of total points accumulated. **All assignments are required to be completed in the designated time to receive credit for the course.**

Grading Scale

Letter Grade	Numerical Grade Range
A	90-100
B	80-89
C	75-79
D	70-74
F	69 and below

A = Excellent

B = Good

C = Fair

D = Poor, may require remediation

F = Failure

Attendance Policy

The university views class attendance and participation as an individual student responsibility. Students are expected to attend class and to complete all assignments.

For any absences (excused or unexcused), it will be the student's responsibility to contact the Office of Student Affairs (OSA) by sending an email to Sod-attendance@tamu.edu prior to the start of class session. The OSA will decide if your absence is excused or unexcused. Make sure to provide your name, class level, the date(s) of absence and reason for your absence, the names of the instructors that need to be notified. If documentation is requested, it must be from a medical provider on letterhead with the provider's signature and be submitted within 3 business days of returning to school. Please refer to <https://student-rules.tamu.edu/rule07/>

Excused Absences

Illnesses or emergencies: It is understood that absences due to severe or contagious illness, injuries or emergencies may occur. An absence due to illness may require a medical confirmation note from a student's medical provider. For injuries or illnesses that require a student to be absent from class for three or more business days, a note from his or her medical provider is mandatory. If a student has frequent sick days, the program director may require a medical provider's note for each absence. **Note:** An absence for a non-acute medical service does not constitute an excused absence.

Religious holy day: A student whose absence is excused under or the observance of religious holy day will be allowed to take an examination or complete an assignment from which the student is excused within 3 days after the absence. **If the student fails to schedule and complete the exam or assignment within three days, a grade of zero will be given.**

Unexcused Absences

Non-emergent appointments (illnesses not considered severe or contagious) scheduled during the class time will be considered an unexcused absence. **No make-up test will be given if an absence is unexcused on a test day.** In addition, examinations **will not** be administered in advance for a planned/anticipated unexcused absence.

Please refer to [Student Rule 7](#) in its entirety for information about excused absences, including definitions, and related documentation and timelines.

Make-up Work Policy

Students will be excused from attending class on the day of a graded activity or when attendance contributes to a student's grade, for the reasons stated in Student Rule 7, or other reasons deemed appropriate by the instructor.

The designation of excused or unexcused absence will be determined on an individual basis by the Office of Student Affairs. For any absences (excused or unexcused), it will be the student's responsibility to review the lecture recordings for the class(es) missed. Additionally, the student must complete any make-up assignment(s) within **10 calendar days (including weekends) after returning to school.** **Failure to complete the make-up assignment(s) within this time frame will result in TWO points being deducted from student's final grade.**

Please refer to [Student Rule 7](#) in its entirety for information about makeup work, including definitions, and related documentation and timelines.

Absences related to Title IX of the Education Amendments of 1972 may necessitate a period of more than 30 days for make-up work, and the timeframe for make-up work should be agreed upon by the student and instructor" ([Student Rule 7, Section 7.4.1](#)).

"The instructor is under no obligation to provide an opportunity for the student to make up work missed because of an unexcused absence" ([Student Rule 7, Section 7.4.2](#)).

Course Schedule

Tuesday, 1-2 pm; Wednesday, 10-12 am; Thursday, 1-2 pm; Friday, 1-2 pm.

Week	Date	Lect. #	Topic	Materials	Room	Instructor
1	8.13	1	Course Intro; Intro to Head & Neck Anatomy	H&N: Chaps 1 & 2	310	Umorin
	8.14	2	Intro to Oral Cavity I	H&N: Chap 2	310	Umorin
		3	Intro to Oral Cavity II	H&N: Chap 2	310	Umorin
	8.15	4	Intro to the dentitions I	E&H: Chap 15	310	
	8.16		Southwest Dental Conference		No class	
2	8.20	5	Intro to the dentitions II	E&H: Chap 15	310	
	8.21	6	Cells I	E&H: Chaps 7	310	Lu
		7	Cells II	E&H: Chaps 7	310	Lu
	8.22	8	Basic Tissue I	E&H: Chaps 8	310	Lu
8.23	9	Basic Tissue II	E&H: Chaps 8	310	Lu	
3	8.27	10	Basic Tissue III	E&H: Chaps 8	310	Lu
	8.28		Cells & Tissues demo		Lab 30	Lu
			Review/Q&A; Quiz 1		Lab 30	Lu
	8.29		Self-study (No class)			
	8.30		Exam 1 (Lect. #1-10), 100 points		310	Lu
4	9.3	11	Embryonic development of the face and oral cavity I	E&H: Chaps 3, 4, & 5	310	Ruest
	9.4	12	Embryonic development of the face and oral cavity II	E&H: Chaps 3, 4, & 5	310	Ruest
		13	Embryonic development of the face and oral cavity III	E&H: Chaps 3, 4, & 5	310	Ruest
	9.5	14	Embryonic development of the face and oral cavity IV	E&H: Chaps 3, 4, & 5	310	Ruest
	9.6		Embryological Development Timeline worksheet; Quiz 2		310	Ruest
5	9.10	15	Tooth Development I	E&H: Chap 6	310	Ruest
	9.11	16	Tooth Development II	E&H: Chap 6	310	Ruest
		17	Tooth Eruption & Shedding	E&H: Chap 6	310	Qin
	9.12		Review/Q&A		310	Ruest/Qin
	9.13		Self-study (No class)			
6	9.17		Exam 2 (Lect. #11-17), 70 points		310	Ruest/Qin
	9.18	18	Histology of enamel, dentin, and pulp I	E&H: Chap 12,13	310	Lu
		19	Histology of enamel, dentin, and pulp II	E&H: Chap 12,13	310	Lu
	9.19	20	Histology of enamel, dentin, and pulp III	E&H: Chap 12,13	310	Lu
	9.20		Enamel, dentin & pup demo		Lab 30	Lu
7	9.24	21	Histology of Periodontium I; Quiz 3	E&H: Chap 14	310	Qin
	9.25	22	Histology of Periodontium II	E&H: Chap 14	310	Qin
		23	Oral mucosa, Salivary glands, glandular tissues I	E&H: Chap 9 & 11	310	Qin



				H&N: Chap 7		
	9.26	24	Oral mucosa, Salivary glands, glandular tissues II	E&H: Chap 9 & 11 H&N: Chap 7	310	Qin
	9.27		Periodontium, oral mucosa & salivary glands demo		Lab 30	Qin
8	10.1		Review/Q&A		310	Lu/Qin
			Exam 3 (Lect. #18-24), 70 points		310	Lu/Qin
	10.2	25	Bone histology, development & remodeling	H&N: Chap 3 E&H: Chap 8	310	Qin
	10.3	26	Bone structure	H&N: Chap 3	310	Qin
	10.4	27	Skull I	H&N: Chap 3	310	Q. Wang
9	10.8	28	Skull II	H&N: Chap 3	310	Q. Wang
	10.9	29	Skull III	H&N: Chap 3	310	Q. Wang
			Skull display I	H&N: Chap 3	Lab 30	Q. Wang
	10.10		Skull display II	H&N: Chap 3	Lab 30	Q. Wang
	10.11		Osteology activity (see instruction provided); Quiz 4		Lab 30	Q. Wang
10	10.15		Review/Q&A		310	Qin/Q. Wang
			Exam 4 (Lect. #25-29), 50 points		310	Qin/Q. Wang
	10.16	30	Head and Neck Muscles Perioral muscles I: Mastication, Neck & Face	H&N: Chap 4	310	Umorin
			Head and Neck Muscles Perioral muscles II: Tongue, Palate & Pharynx	H&N: Chap 4	310	Umorin
	10.18	32	Skeletal muscle overview		310	
11	10.22		Display: Perioral muscles I		Lab 30	Umorin
			Display: Perioral muscles II		Lab 30	Umorin
	10.23		Muscle activity (see instruction provided)		Lab 30	Umorin
			10.24	33	Mastication/Swallowing	H&N: Chap 4
	10.25		Display: Mastication/Swallowing I		310	Umorin
12	10.29		Display: Mastication/Swallowing II		310	Umorin
	10.30	34	Temporomandibular Joint (TMJ)	H&N: Chap 5 E&H: Chap 19	310	Umorin
		35	Temporomandibular Joint (TMJ) cont. Quiz 5	H&N: Chap 5 E&H: Chap 19	310	Umorin
	10.31		Muscles & TMJ display		Lab 14	Umorin
	11.1		Self-study (No class)			
13	11.05		Review/Q&A			Umorin
	11.06		Exam 5 (Lect. #30-35), 60 points		310	Umorin
			No class			
	11.07	36	Head & Neck Blood Vessels	H&N: Chap 6	310	C. Zhang
11.08	37	Head & Neck Blood Vessels	H&N: Chap 6	310	C. Zhang	
14	11.12		Blood vessels activity (see instruction provided)		Lab 30	C. Zhang
	11.13	38	Head & Neck Lymphatics	H&N: Chap 10	310	C. Zhang

		39	Fascial Spaces of the Head & Neck/Spread of Infection	H&N: Chaps 11 & 12	310	C. Zhang
	11.14	40	Nervous System Overview; Quiz 6	H&N Chap 8	310	Crawford
	11.15	41	Central, Peripheral & Autonomic Nervous System	H&N Chap 8	310	Crawford
15	11.19	42	Cranial Nerve V	H&N Chap 8	310	Crawford
	11.20	43	Cranial Nerve VII	H&N Chap 8	310	Crawford
				Cranial nerves activity (see instruction provided)		Lab 30
	11.21		Brain, spinal cord, cranial nerves display		Lab 14	Umorin/ Crawford
	11.22	44	Local Anesthesia: anatomic landmarks; Quiz 7	H&N: Chap 9	310	Crawford
16	11.25-11.29		Fall Semester Recess			
17	12.3	45	Local Anesthesia I	H&N: Chap 9	310	Crawford
	12.4	46	Local Anesthesia II	H&N: Chap 9	310	Crawford
				Local Anesthesia Display		Lab 14
	12.5		Review/Q&A		310	Crawford
	12.6		Self-study (No class)			
18	12.10	Finals week	Exam 6 (Lect. #36-46), 110 points (1:00 pm – 3:00 pm)		310	Crawford

Notes:

H&N=Illustrated Anatomy of the Head and Neck, Fehrenbach MJ & Herring SW; 6th Ed; ISBN: 978-0-323-61301-9

E&H=Illustrated Dental Embryology, Histology, and Anatomy, Fehrenbach MJ & Popowics T; 5th Ed; ISBN: 978-0-323-61107-7

Technology Support

Students are responsible for maintaining their devices and ensuring that they are in proper working order throughout the semester. This includes maintaining access to the college wireless network, access to all accounts (both TAMU and TAMU Health), and keeping passwords up to date. Students are expected to keep their devices up-to-date in regards to patches and OS updates.

Division of IT

If the student experiences issues with an electronic device, wifi access, axiUm, Zoom, or user accounts, their first point of contact should be the Division of IT Central Help Desk or the local Division of IT at SOD. The Central Helpdesk provides 24-hour support.

Division of IT Central Help Desk

Website: <https://it.tamu.edu/help/>

Phone: 1-979-845-8300

Email: helpdesk@tamu.edu

SOD Local Division of IT Office

Room: 519

Phone: 214-828-8248

SOD Instructional Design Team

For electronic exam support or problems concerning other academic technology, such as the LMS (Blackboard or Canvas), ExamSoft, or Exemplify, students should contact the Instructional Design team.

Room: 516 through Academic Affairs

Carmina Castro - ccastro@tamu.edu (214-828-8316)

Jeff Lowry - lowryj1@tamu.edu (214-828-8243)

Academic Integrity Statement and Policy

“An Aggie does not lie, cheat or steal, or tolerate those who do.”

“Texas A&M University students are responsible for authenticating all work submitted to an instructor. If asked, students must be able to produce proof that the item submitted is indeed the work of that student. Students must keep appropriate records at all times. The inability to authenticate one’s work, should the instructor request it, may be sufficient grounds to initiate an academic misconduct case” ([Section 20.1.2.3, Student Rule 20](#)).

Americans with Disabilities Act (ADA) Policy

Texas A&M University is committed to providing equitable access to learning opportunities for all students. If you experience barriers to your education due to a disability or think you may have a disability, please contact the Associate Dean for Academic Affairs in charge of Disability Services, Room 514, or call 214-828-8208 or visit disability.tamu.edu for additional information. Disabilities may include, but are not limited to attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability related needs with Disability Resources and their instructors as soon as possible.

Title IX and Statement on Limits to Confidentiality

Texas A&M University is committed to fostering a learning environment that is safe and productive for all. University policies and federal and state laws prohibit gender-based discrimination and sexual harassment, including sexual assault, sexual exploitation, domestic violence, dating violence, and stalking.

With the exception of some medical and mental health providers, all university employees (including full and part-time faculty, staff, paid graduate assistants, student workers, etc.) are Mandatory Reporters and must report to the Title IX Office if the employee experiences, observes, or becomes aware of an incident that meets the following conditions (see [University Rule 08.01.01.M1](#)):

- The incident is reasonably believed to be discrimination or harassment.
- The incident is alleged to have been committed by or against a person who, at the time of the incident, was (1) a student enrolled at the University or (2) an employee of the University.

Mandatory Reporters must file a report regardless of how the information comes to their attention – including but not limited to face-to-face conversations, a written class assignment or paper, class discussion, email, text, or social media post. Although Mandatory Reporters must file a report, in most instances, a person who is subjected to the alleged conduct will be able to control how the report is handled, including whether or not to pursue a formal investigation. The University’s goal is to make sure you are aware of the range of options available to you and to ensure access to the resources you need.

Statement on Mental Health and Wellness

Texas A&M University recognizes that mental health and wellness are critical factors influencing a student’s academic success and overall wellbeing. Students are encouraged to engage in healthy self-care practices by utilizing the resources and services available through [University Health Services](#). Students needing a listening ear can call the Texas A&M Helpline (979.845.2700) from 4:00 p.m. to 8:00 a.m. weekdays and 24 hours on weekends for mental health peer support while classes are in session. The [TELUS Health Student Support app](#) provides access to professional counseling in multiple languages anytime, anywhere by phone or chat, and the 988 Suicide & Crisis Lifeline offers 24-hour emergency support at 988 or [988lifeline.org](#).

Statement on the Family Educational Rights and Privacy Act (FERPA)

FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. Currently enrolled students wishing to withhold any or all directory information items may do so by going to [howdy.tamu.edu](#) and clicking on the "Directory Hold Information" link in the Student Records channel on the MyRecord tab. The complete [FERPA Notice to Students](#) and the student records policy is available on the Office of the Registrar webpage.

Items that can never be identified as public information are a student’s social security number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your

privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

Directory items include name, UIN, local address, permanent address, email address, local telephone number, permanent telephone number, dates of attendance, program of study (college, major, campus), classification, previous institutions attended, degrees honors and awards received, participation in officially recognized activities and sports, medical residence location and medical residence specialization.

Dental Hygiene 3250: Biomedical Sciences I, Fall 2024

Tuesday, 1-2 pm; Wednesday, 10-12 am; Thursday, 1-2 pm; Friday, 1-2 pm.

Week	Date	Lect. #	Topic	Materials	Room	Instructor
1	8.13	1	Course Intro; Intro to Head & Neck Anatomy	H&N: Chaps 1 & 2	310	Umorin
	8.14	2	Intro to Oral Cavity I	H&N: Chap 2	310	Umorin
		3	Intro to Oral Cavity II	H&N: Chap 2	310	Umorin
	8.15	4	Intro to the dentitions I	E&H: Chap 15	310	
	8.16		Southwest Dental Conference		No class	
2	8.20	5	Intro to the dentitions II	E&H: Chap 15	310	
	8.21	6	Cells I	E&H: Chaps 7	310	Lu
		7	Cells II	E&H: Chaps 7	310	Lu
	8.22	8	Basic Tissue I	E&H: Chaps 8	310	Lu
	8.23	9	Basic Tissue II	E&H: Chaps 8	310	Lu
3	8.27	10	Basic Tissue III	E&H: Chaps 8	310	Lu
	8.28		Cells & Tissues demo		Lab 30	Lu
			Review/Q&A; Quiz 1		Lab 30	Lu
	8.29		Self-study (No class)			
	8.30		Exam 1 (Lect. #1-10), 100 points		310	Lu
4	9.3	11	Embryonic development of the face and oral cavity I	E&H: Chaps 3, 4, & 5	310	Ruest
	9.4	12	Embryonic development of the face and oral cavity II	E&H: Chaps 3, 4, & 5	310	Ruest
		13	Embryonic development of the face and oral cavity III	E&H: Chaps 3, 4, & 5	310	Ruest
	9.5	14	Embryonic development of the face and oral cavity IV	E&H: Chaps 3, 4, & 5	310	Ruest
	9.6		Embryological Development Timeline worksheet; Quiz 2		310	Ruest
5	9.10	15	Tooth Development I	E&H: Chap 6	310	Ruest
	9.11	16	Tooth Development II	E&H: Chap 6	310	Ruest
		17	Tooth Eruption & Shedding	E&H: Chap 6	310	Qin
	9.12		Review/Q&A		310	Ruest/Qin
	9.13		Self-study (No class)			
6	9.17		Exam 2 (Lect. #11-17), 70 points		310	Ruest/Qin
	9.18	18	Histology of enamel, dentin, and pulp I	E&H: Chap 12,13	310	Lu
		19	Histology of enamel, dentin, and pulp II	E&H: Chap 12,13	310	Lu
	9.19	20	Histology of enamel, dentin, and pulp III	E&H: Chap 12,13	310	Lu
	9.20		Enamel, dentin & pup demo		Lab 30	Lu
7	9.24	21	Histology of Periodontium I; Quiz 3	E&H: Chap 14	310	Qin
	9.25	22	Histology of Periodontium II	E&H: Chap 14	310	Qin
		23	Oral mucosa, Salivary glands, glandular tissues I	E&H: Chap 9 & 11 H&N: Chap 7	310	Qin
	9.26	24	Oral mucosa, Salivary glands, glandular tissues II	E&H: Chap 9 & 11 H&N: Chap 7	310	Qin
	9.27		Periodontium, oral mucosa & salivary glands demo		Lab 30	Qin

8	10.1		Review/Q&A		310	Lu/Qin
	10.2	25	Bone histology, development & remodeling	H&N: Chap 3 E&H: Chap 8	310	Qin
		26	Bone structure	H&N: Chap 3	310	Qin
	10.3	27	Skull I	H&N: Chap 3	310	Q. Wang
	10.4		Exam 3 (Lect. #18-24), 70 points		310	Lu/Qin
9	10.8	28	Skull II	H&N: Chap 3	310	Q. Wang
	10.9	29	Skull III	H&N: Chap 3	310	Q. Wang
		30	Skull IV	H&N: Chap 3	310	Q. Wang
	10.10		Skull display I	H&N: Chap 3	Lab 30	Q. Wang
	10.11		Skull display II	H&N: Chap 3	Lab 30	
10	10.15		Osteology activity (see instruction provided); Quiz 4		Lab 30	Q. Wang
			Review/Q&A		310	Qin/Q. Wang
	10.16	31	Head and Neck Muscles Perioral muscles I: Mastication, Neck & Face	H&N: Chap 4	310	Umorin
	10.17	32	Head and Neck Muscles Perioral muscles II: Tongue, Palate & Pharynx	H&N: Chap 4	310	Umorin
	10.18		Exam 4 (Lect. #25-29), 50 points		310	Qin/Q. Wang
11	10.22		Display: Perioral muscles I		Lab 30	Umorin
	10.23		Display: Perioral muscles II		Lab 30	Umorin
				Muscle activity (see instruction provided)		Lab 30
	10.24	33	Mastication/Swallowing	H&N: Chap 4	310	Umorin
	10.25		Display: Mastication/Swallowing I		310	Umorin
12	10.29		Display: Mastication/Swallowing II		310	Umorin
	10.30	34	Temporomandibular Joint (TMJ)	H&N: Chap 5 E&H: Chap 19	310	Umorin
		35	Temporomandibular Joint (TMJ) cont. Quiz 5	H&N: Chap 5 E&H: Chap 19	310	Umorin
	10.31		Muscles & TMJ display		Lab 14	Umorin
	11.1		Self-study (No class)			
13	11.05		Review/Q&A			Umorin
	11.06		Exam 5 (Lect. #30-35), 60 points		310	Umorin
				No class		
	11.07	36	Head & Neck Blood Vessels	H&N: Chap 6	310	C. Zhang
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14	11.12		Blood vessels activity (see instruction provided)		Lab 30	C. Zhang
	11.13	38	Head & Neck Lymphatics	H&N: Chap 10	310	C. Zhang
		39	Fascial Spaces of the Head & Neck/Spread of Infection	H&N: Chaps 11 & 12	310	C. Zhang
	11.14	40	Nervous System Overview; Quiz 6	H&N Chap 8	310	Crawford
	11.15	41	Central, Peripheral & Autonomic Nervous System	H&N Chap 8	310	Crawford

15	11.19	42	Cranial Nerve V	H&N Chap 8	310	Crawford
	11.20	43	Cranial Nerve VII	H&N Chap 8	310	Crawford
			Cranial nerves activity (see instruction provided)		Lab 30	Crawford
	11.21		Brain, spinal cord, cranial nerves display		Lab 14	Umorin/ Crawford
	11.22	44	Local Anesthesia: anatomic landmarks; Quiz 7	H&N: Chap 9	310	Crawford
16	11.25-11.29		Fall Semester Recess			
17	12.3	45	Local Anesthesia I	H&N: Chap 9	310	Crawford
	12.4	46	Local Anesthesia II	H&N: Chap 9	310	Crawford
			Local Anesthesia Display		Lab 14	Umorin/ Crawford
	12.5		Review/Q&A		310	Crawford
	12.6		Self-study (No class)			
18	12.10	Finals week	Exam 6 (Lect. #36-46), 110 points (1:00 pm – 3:00 pm)		310	Crawford

Notes:

H&N=Illustrated Anatomy of the Head and Neck, Fehrenbach MJ & Herring SW; 6th Ed; ISBN: 978-0-323-61301-9

E&H=Illustrated Dental Embryology, Histology, and Anatomy, Fehrenbach MJ & Popowics T; 5th Ed; ISBN: 978-0-323-61107-7