

CSBL 5022
Interprofessional Human Gross Anatomy
SPRING 2017

CLASS DAYS and TIME: Tuesday & Friday, 10 AM-Noon and 1-4PM

CLASSROOM: Lecture - 1.284T unless otherwise noted; Lab - Gross anatomy lab, Dental School Building, unless otherwise noted

COURSE FACULTY: Alan Sakaguchi, Ph.D. Course Director; Yolanda Rangel, Ph.D. Course Co-Director

OFFICE LOCATION and HOURS: Sakaguchi, 237D Medical School Building, by appointment

EMAIL: SAKAGUCHI@uthscsa.edu; RANGELY@uthscsa.edu

TELEPHONE: Sakaguchi, 567-3839; Rangel, 567-8626

READ THIS DOCUMENT CAREFULLY - YOU ARE RESPONSIBLE FOR ITS CONTENTS.

COURSE DESCRIPTION AND OBJECTIVES

This course will teach structural and functional anatomy of the normal human body. Lectures will serve as introductory information for the laboratory demonstrations and dissections. Together they are intended to describe and explain how the different anatomical systems interact and complement one another to perform the functions of the body. The course will cover the central and peripheral nervous systems, vertebral column and back, the upper and lower limbs, head and neck, body wall, thorax, abdomen and pelvis. Special emphasis will be placed on the laboratory experience in which the learner will perform a detailed self-study and/or dissection of the human body in order to achieve an understanding of the three-dimensional relationships and thus the interactive functions of the body. The demonstrations and dissections will allow the student to understand the anatomical basis for disease and dysfunction in organ systems and their applications to clinical practice. They will be supplemented by the study of prosected specimens where possible, models, skeletons, and other demonstration materials. Students are expected to display the highest level of professionalism and to treat the cadaver with respect and to care for and use it in such a way as to gain the maximum knowledge from it.

Pre-requisites – none

Semester credit hours – 5.5

By the end of this course, each student should be able to:

- correctly and accurately describe and understand the structural and functional anatomy of the normal human body; pronounce and use anatomical terminology correctly.
- correctly and accurately describe and understand the structure and function of the nervous system, the musculoskeletal system and organ systems.
- correctly and accurately describe and understand the structural and functional basis for injuries and diseases of the nervous system, musculoskeletal system and organ systems and their sequelae

COURSE ORGANIZATION

The main teaching modalities used in this course include:

- 1) Didactic lectures in which anatomical information is presented to the class
- 2) Laboratory demonstrations and dissections and self-study exercises
- 3) Interactive and small group learning activities and online self-assessment quizzes and study material

Materials – In addition to required textbooks (see below) students are required to provide the following:

1. Dissecting tools which include at least two good quality stainless steel dressing (thumb) forceps (without teeth), a No. 4 scalpel handle with a supply of No. 21 or No. 22 blades, and two pair of dissection grade stainless steel operating scissors, one with a blunt and a sharp end and the other with two sharp ends.
2. Gloves for use in the anatomy lab
3. Scrubs for use in the anatomy lab
4. Any other lab materials that the student wishes to use in the anatomy lab (e.g. safety glasses, aprons, bonnets, respirators), obtained at their own expense.

Computer Access – All related and relevant course materials will be available on the course CANVAS page. Students should have access to a computer with internet and Wi-Fi capabilities.

Reading Assignments – Course lecture material is supplemented by reading relevant chapters in the clinical text, anatomy atlas and lab dissection manual. Unless specifically noted by the lecturer, any material in the required readings may be tested during module written exams and quizzes, even material that was not emphasized during lecture. Supplemental study material and study aids may be posted on the course CANVAS site as well. In addition, material presented during laboratory demonstrations and dissections may be tested during module lab practical exams.

Lectures—All of the formal lectures given by the course instructors are presented using PowerPoint slides. PDF versions of the lecture slides will usually be available on the course CANVAS site. Instructors will sometimes also provide additional testable material in the form of supplemental PowerPoint slides or documents which will be available on the course CANVAS site. Material presented during clinical correlations also may be tested on module exams and quizzes.

Laboratory—Structures of the human body are presented in the anatomy lab during demonstrations, dissections and self-study. Students should prepare for each lab session by reviewing the relevant sections of the lab dissector, anatomy atlas and structure lists (see Textbooks and Class Schedule). Lab-specific structure lists describing specific items that may be tested during module lab practical exams and additional material that may be tested during module lab practical exams will be available on the course CANVAS site.

ATTENDANCE

Lecture: Attendance at lecture is strongly encouraged but not mandatory. However, each student is responsible for learning any material presented during lecture whether they were present or not.

Laboratory: Full attendance in the laboratory is mandatory in order to receive credit for this course. Students Each student is expected to participate fully in the laboratory work which includes self-study, dissection, peer teaching and review. Wherever possible and unless otherwise directed, all dissections are to be done bilaterally. Typically three students will be assigned to each side of the body. On your laboratory assignment sheet you will find that three students have been assigned to the left side and three students to the right side of each cadaver. (NOTE: "left side " and "right side" refers to the sides of the cadaver NOT the table. Since the cadaver will be variably placed in the supine [face up] or prone [facedown] positions this may actually require teams to exchange sides of the table during the course, sometimes during the same dissection). In addition, each student on a side of the cadaver has been designated as "Student A," "Student B," or "Student C" in order to clarify the individual responsibilities of each partner during a particular dissection.

A rotation scheme will be used so that only two students from each group of three need be present to complete a given dissection. Although the students designated in the schedule will be responsible for the physical dissection and demonstration of structures called for in the prescribed dissections or self-study, it is the responsibility of each member of the team to learn all designated structures, whether present or not during a dissection. The member of each team not directly dissecting has the equally important responsibility to serve as a reader of the dissection procedures for the dissector and should find and demonstrate adequate atlas representations of the structure(s) being sought. During each lab non-dissecting team members may also be required to rotate through self-study stations and complete any associated station exercises. During lab sessions that involve demonstration and self-study rather than dissection, students will also rotate responsibilities according to a similar scheme. The success or failure of any lab session rests on ALL team members doing their jobs and doing them well. REMEMBER, on laboratory examinations each student will

have to identify all structures individually. The teaching staff will periodically check the cadavers and evaluate the quality and completeness of the dissections. They may ask any student to demonstrate structures on the cadaver. Unsatisfactory performance of the dissections may result in a reduction of final course letter grade or an Incomplete. Any anticipated absence from lab must be documented by prior approval from the student's respective program director and from the course director. Chronic absence or tardiness from the lab impairs the learning experience for other students in the same tank group and is considered unprofessional behavior.

TEXTBOOKS

Required: The following textbooks are required for this course. The editions listed are those that will be referenced during lectures and in assigned readings and that may be used for the preparation of some exam questions. Use of older editions is done so at one's own risk.

1. Moore, Keith L., Dalley, Arthur F., and Agur, Anne M. R., *Clinically Oriented Anatomy*, 7th Edition, 2014
2. Netter, Frank H., *Atlas of Human Anatomy*, 6th Edition, 2014
3. Tank, Patrick W., *Lab-Grant's Dissector*: 15th Edition, 2014

GRADING POLICIES AND EXAMINATION PROCEDURES

There will be four module examinations (please see class schedule). Each module exam will consist of a written part and a lab practical part, both equally weighted and both given on the same day. In addition to the four module exams there will be a weekly quiz covering material presented during the previous week. Weekly quizzes may draw upon material presented in lecture, assigned reading and laboratory demonstrations or dissections. A minimum grade average of 70% must be maintained for the quizzes to receive the full 5% participation grade. There may also be laboratory exercises and assignments that may contribute to the 5% participation grade. These examinations and participation exercises and assignments will constitute the sole criteria for determining grade in this course. Quiz grades and final letter grades will be posted on the course Canvas site and **under no circumstances will such grades be provided to students verbally or by email from teaching faculty.**

Grading System

For determining overall and final course grade, the examinations will be weighted as follows:

Module I Written and Practical	30%
Module II Written and Practical	25%
Module III Written and Practical	25%
Module IV Written and Practical	15%
Participation—Weekly quizzes and other exercises	5%
Total	100%

A = $\geq 90\%$ B = 80-89% C = 70-79% F = $<70\%$

Note: A final letter grade will only be increased if it falls within $\leq 0.2\%$ of the next highest grade. For example, 89.7% is a B, whereas 89.8% is an A.

Examination Protocol – Written exams will be administered on paper copies with answers recorded on a Scantron sheet. Format of questions may be multiple choice, fill in from a list and identification of structures or features on a figure or image. The exam is timed and all questions must be answered within the allotted time. No study material or electronic devices may be used during the written exam. Additional instructions will be given at the time of the written exam.

Practical exams will take place either in the anatomy laboratory or a designated venue. During the exam, which is timed, you will be asked to identify structures on anatomical specimens, plastinates, bones, radiographs, anatomical models, printed figures or printed images within the allotted time. Answers are recorded on a paper form. Additional instructions will be given at the time of the practical exam.

Late Arrival to Exams or Other Course Activities - If you arrive late for a written exam and are allowed by the course director to take it, no extra time will be given. You will **not** be permitted to take the written exam if you arrive after the exam has finished. You will **not** be permitted to take the practical exam at all if you arrive late. A pattern of late arrival to exams or other scheduled course activities is considered to be unprofessional behavior that not only reflects poorly on the student but may also impair the progress of other students, especially in the laboratory portion of the course.

Grading Procedures – Written exam results will be posted on the course CANVAS site as quickly as possible but may take several days or more due to the size of the course. The answer key for practical exams will typically be posted at the end of the day of the exam.

Missed Exams – An unexcused missed written or practical exam will receive a grade of 0 (zero). A student who anticipates an absence from a scheduled exam for a bona fide reason must have prior and official written approval from their respective Dean, Program Director and the Course Directors. Absences due to personal injury or serious illness must be documented by a physician's letter. Absences due to a serious family situation must also be documented.

Make-up Exams – It is at the discretion of the course directors whether to require a student with an excused absence from a written exam to take a make-up exam. If a make-up written exam is given, the exact nature and content, and the time and place of the exam will be determined by the course directors.

Because of the complex nature of the practical exam it is neither feasible nor possible to offer a make-up exam that exactly mimics the missed exam. A student who has an excused absence from a practical exam may be asked to take a substitute exam, the exact nature and content of which will be determined by the course directors, at a time and place also determined by the course directors.

Course Remediation - A student whose cumulative total score falls below 70% at the end of the course may, in consultation with the respective program directors, be allowed to remediate but under no circumstances will remediation be offered to any student with a final course average of 65% or below. A remediation exam will not be offered to students who achieve a final letter grade of C or above. If offered, the content and the time and place of the remediation will be determined by the course directors. The new final grade will not be higher than a letter grade of C, regardless of the score achieved on the remediation exam.

Laboratory Precautions - With increased public interest in environmental health hazards, considerable attention has been given to the possible toxicity of laboratory chemicals. Since agents such as phenol and formaldehyde are extremely important for both the preservation of cadaver material and to ensure that disease is not transmitted to the living, we have been following these investigations with great interest.

Although evidence to date is sketchy and inconclusive, we believe that even the possibility of concern merits some caution. All students are required to wear gloves when handling cadaver material. Tank tops, shorts and open shoes are not permitted. A clean protective apron or coat is recommended when working in the laboratory. Laboratory air has been analyzed for levels of chemicals in question and concentrations have been found to fall within safe levels as established by the Occupational Safety and Health Administration. Concentrations of phenol and formaldehyde will continue to be monitored on a regular basis. As an additional safety precaution, any female student who is pregnant or suspects she is pregnant should immediately bring this information to the attention of the Course Director and/or Course Co-Director.

Please note that these chemicals are used only at low concentrations in the gross anatomy laboratory and they are necessary to protect the health of the living. Every indication is that at the concentrations used these chemicals should not pose a threat to students or faculty. However, the issue will continue to be monitored and in the interim, intelligent caution is strongly encouraged. (Reference: Blair, et al. 1986 *J Natl Cancer Inst* **76**: 1071-1084; Pabst 1987 *Anat Rec* **219**: 109-112).

Laboratory Rules – At the beginning of the course each student must declare that they have read and understood the following rules that govern the use of the anatomy laboratory before being allowed to continue. The use of human material for academic study is strictly governed by Department, University, and State of Texas regulations and laws. Any violation of these rules may result in disciplinary action that can include dismissal from a student's respective program as well as fine, incarceration, or both.

1. OBSERVE LABORATORY SCHEDULE

The laboratories will be unlocked and available for your use 24 hours a day, Monday through Sunday EXCEPT when other scheduled classes are in session. Certain exceptions may be made to this policy preceding major examinations and will be announced in class. *The main door at the entrance of the anatomy laboratories and doors of all the laboratories MUST remain closed AT ALL TIMES other than normal ingress and egress and you should take special precaution that the door is open for the shortest possible time when entering or leaving the laboratory. There are no exceptions to this rule.*

2. KEEP THE LABORATORY CLEAN

You are expected to maintain your personal appearance and assigned working space in accordance with professional standards of cleanliness.

Personal attire

Although there is no specific code of personal dress for laboratory work, what you wear **MUST** be kept clean so as not to create a health hazard for yourself and those with whom you live and work. Shorts and open shoes are **NOT** allowed.

Laboratory cleanliness

Place paper waste (such as towels) in plastic trash containers located near the sinks. Discard sharp objects such as scalpel blades, needles, etc., in the containers ("Sharps bin") on the counters marked for such instruments; *please do not put sharp objects in the containers for paper trash.* During dissections, parts of the body (such as skin, scraps of fat, etc.) may be placed in the stainless steel buckets beneath the dissection tanks and *at the end of each dissection period, these are to be emptied into the plastic containers marked for "Tissue Only."* **DO NOT dispose of paper towels or scraps of tissue in dissection tanks or in sinks.** Be sure to leave the cadaver properly covered to avoid excessive drying.

3. USE DEMONSTRATION MATERIALS WITH CARE

Skeletons are never to be disarticulated or removed from stands. The disarticulated skeletal materials issued by Multidisciplinary Labs personnel are fragile and irreplaceable. Under no circumstances are reference books, specimens, etc., to be removed from the laboratories. Models and other demonstration materials must be handled with care. **DO NOT** leave models disassembled. Special instruments (bone forceps, saws, etc.) are to be returned to the cabinet at the end of each laboratory period.

4. TAKE CARE OF THE LIGHTS

Dissection lights must be manipulated carefully; be sure your light is turned off before you leave the laboratories. Turning the concavity of the lamp reflector upward and raising the lamp head will help extend the life of the bulb and will help protect the lamp from accidental damage. If you are the last one to leave the lab at the end of a laboratory period or at night, please help conserve energy by turning off the room lights.

5. DO NOT SMOKE, EAT, OR DRINK IN THE LABORATORY

Smoking, eating, or drinking are prohibited in the laboratories, since, in this environment, these activities may pose a hazard to your health.

6. WORK QUIETLY IN THE LAB

Loud talk, horseplay, etc., are completely out of place in the laboratories.

7. DO NOT BRING VISITORS INTO THE LABORATORY

No visitors will be allowed into the laboratory under any circumstance.

8. DO NOT BRING CAMERAS, ETC. INTO THE LABORATORY

Photographic equipment is NOT permitted in the laboratories at any time.

9. KEEP SPECIMENS INSIDE THE LAB

Parts of the body, pieces of human tissue, or prosthetic appliances found in cadavers are never to be removed from the labs. Violation of this rule or of rule #10 is a Class A Misdemeanor under Texas law, punishable by fine, jail sentence, or both.

10. RESPECT THE CADAVERS AS HUMAN REMAINS

Proper care of and respect for the bodies is absolutely essential.

REQUESTS FOR ACCOMMODATIONS FOR DISABILITIES

In accordance with policy 4.2.3, **Request for Accommodation Under the ADA and the ADA Amendments Act of 2008 (ADAAA)**, any student requesting accommodation must submit the appropriate request for accommodation under the American with Disabilities Act (ADA, form 100). to his/her appropriate Associate Dean of their School and a copy to the ADA Coordinator. Additional information may be obtained at <http://uthscsa.edu/eeo/request.asp>.

Students who wish to request accommodations for CSBL 5022 should contact Dr. David Henzi Assistant Dean for Student Affairs and Enrollment Management (Room 426A, Medical School Building, Lozano Long Campus *for students in the School of Health Professions*) or Dr. Nicquet Blake, Associate Dean Graduate School of Biomedical Sciences (Room 1.108, Academic Administration Building, Long Campus *for students in the Graduate School Programs*) directly who will review the processing procedures with the student and then refer him or her to Dr. Blankmeyer, Executive Director of the Equal Employment/Affirmative Action Office (Room 101F-02, Medical School Building) for further review. The process of requesting accommodations should be initiated by the student as soon as possible and once approved the course directors should be notified immediately so that appropriate arrangements can be made. **Please note that all students will be required to complete the laboratory practical exams within the regularly scheduled allotted time set by the course directors.**

ACADEMIC INTEGRITY AND PROFESSIONALISM

Any student who commits an act of academic dishonesty is subject to discipline as prescribed by the UT System Rules and Regulations of the Board of Regents. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an exam for another person, signing attendance sheets for another student, and any act designed to give unfair advantage to a student or the attempt to commit such an act. Additional information may be obtained at <http://catalog.uthscsa.edu/generalinformation/generalacademicpolicies/academicdishonestypolicy/>

TITLE IX AT UTHSCSA

Title IX Defined:

Title of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads "no person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."

University of Texas Health Science Center San Antonio's Commitment:

University of Texas Health Science Center San Antonio (UTHSCSA) is committed to maintaining a learning environment that is free from discriminatory conduct based on gender. As required by Title IX, UTHSCSA does not discriminate on the basis of sex in its education programs and activities, and it encourages any student, faculty, or staff member who thinks that he or she has been subjected to sex discrimination, sexual harassment (including sexual violence) or sexual misconduct to immediately report the incident to the Title IX Director.

In an emergency, victims of sexual abuse should call 911. For non-emergencies, they may contact UPD at 210-567-2800. Additional information may be obtained at <http://students.uthscsa.edu/titleix/>

EMAIL POLICY

Students should correspond with course directors by using their official assigned University email accounts (i.e., @livemai.uthscsa.edu). Students are expected to check their University email on a regular basis to ensure that they are aware of any important course-related announcements—A student's failure to adequately monitor their University email account is not an excuse for a missed or incomplete course assignment.

USE OF RECORDING DEVICES

Permission to make an audio recording of a lecture is totally at the discretion of each individual lecturer and permission to do so must be obtained prior to the lecture either from the lecturer or as required to comply with ADA accommodations approved by Dr. Blankmeyer, Executive Director of the Equal Employment/Affirmative Action Office, UTHSCSA. Use of any type of image recording device during lectures or in the anatomy lab is not permitted at all times.

ELECTRONIC DEVICES

Laptop, tablet or other devices may be used in class for note taking and to view lecture-related written material, figures and PowerPoint slides and for other classroom related activities. During class these devices should not be used for non-course related activities (e.g., web surfing, emailing, texting, tweeting, etc.) and to do so is considered professional behavior that may be reported to the student's program director. All cell phones must be turned off during lectures. All electronic devices must be turned off and inaccessible during module exams.

TENTATIVE CLASS SCHEDULE
INTERPROFESSIONAL HUMAN GROSS ANATOMY
CSBL 5022
SPRING 2017
Tuesday & Friday
10 AM-Noon & 1-4 PM

WEEK	DATE	TOPIC	Assignment	Instructor and Modality
Week 1	Jan 10	Lecture: Introduction and Orientation Lecture: Terminology & Systems Overview Lab 1: Small Group Activities (Meet in ALTC, sublevel)	Lecture-Moore et. al. *, pp 2-46,	Sakaguchi Rangel (lecture) Faculty & TAs (lab)
	Jan 13	Lecture: Review of the Nervous System I Lab 2: Small Group Activities (Meet in ALTC, sublevel)	Lecture-Moore et. al., pp46-56, 57-65, 496-506	Rangel (lecture) Faculty & TAs (lab)
Week 2	Jan 17	Lecture: Review of the Nervous System II Lecture: Lab Introduction Lab 3: Clinical Correlation—Nervous System Disorders (Meet in ALTC)	Lecture-Moore et. al., pp46-56, 57-65, 496-506	Rangel Sakaguchi (lecture) Faculty (lab)
	Jan 20	Lecture: Back, Vertebral Column & Spinal Cord Lab 4: Orientation Demonstration—Back, Vertebral Column & Spinal Cord Assisted Self-Study (Meet in anatomy lab)	Lecture-Moore et. al. 482-496, pp 700-704, Tables 2.1, 2.2, 6.4, Lab-Grant's Dissector†: Back, Vertebral Column & Spinal Cord pp.5-19	Oyajobi (lecture) Faculty & TAs (lab)
Week 3	Jan 24	Lecture: Anterior Chest Wall & Thoracic Contents I (Lungs) Lab 5: Demonstration—Anterior Chest Wall & Lungs Assisted Self-Study	Lecture-Moore et. al., pp 71-106, 106-120, 120-127 Lab-Grant's Dissector: The Thorax, pp 63-72	Oyajobi (lecture) Faculty & TAs (lab)
	Jan 27	Lecture: Thoracic Contents II (Heart & Mediastinum) Lab 6: Demonstration—Heart & Mediastinum Assisted Self-Study	Lecture-Moore et. al., pp 128-180 Lab-Grant's Dissector: The Thorax, pp 72-87	Kar (lecture) Faculty & TAs (lab)
Week 4	Jan 31	Lecture: Anterior Abdominal Wall & Abdominal Contents Lab 7: Demonstration—Anterior	Lecture-Moore et. al., pp 184-216, 327-330, 217-221, 222-301	Oyajobi (lecture) Faculty & TAs

		Abdominal Wall & Abdominal Contents Assisted Self-Study	Lab-Grant's Dissector: The Abdomen, pp 89-99, 99-114	(lab)
	Feb 3	Lecture: Posterior Abdominal Wall & Pelvis Lab 8: Demonstration—Posterior Abdominal Wall & Pelvis Assisted Self-Study	Lecture-Moore et. al., pp 306-309, 309-321, 327-400 Lab-Grant's Dissector: pp. 123-124, 125-127, 129-131, 137-139 (rectovesical pouch, ductus deferens and deep inguinal ring only), 140-145, 147-148, 152-161 (structures in the male and female urogenital and anal triangles are not covered and are not tested)	Oyajobi (lecture) Faculty & TAs (lab)
Week 5	Feb 7	Lecture: Module I Exam Review Lecture: Clinical Correlation (Trunk) No afternoon scheduled activities		Faculty (lecture)
	Feb 10	Module I Written Exam and Practical Exam (Both exams in ALTC)		Faculty & TAs
Week 6	Feb 14	Lecture: Bones, Muscles & Organization of the Upper Limb Lab 9: Upper Limb Group Activities (meet in ALTC)	Lecture-Moore et. al., pp 670-813	Kar (lecture) Faculty & TAs (lab)
	Feb 17	Lecture: Arm & Shoulder Joint Lab 10: Shoulder & Arm Group Activities (meet in ALTC)	Lecture-Moore et. al., pp 672-677, 697-713	Bhattacharya (lecture) Faculty & TAs (lab)
Week 7	Feb 21	Lecture: Axilla & Brachial Plexus I Lab 11: Upper Limb Group Activities Optional Review: Module I Exam Results	Lecture-Moore et. al., pp 713-731	Sakaguchi (lecture) Faculty & TAs (lab)
	Feb 24	Lecture: Axilla & Brachial Plexus II Lab 12: Demonstration and Dissection--Shoulder & Arm	Lecture-Moore et. al., pp 713-731 Lab-Grant's Dissector: Introduction, pp. 1-4, Superficial Muscles of the Back, pp.9-12, Intermediate Muscles of the Back pg. 12, Pectoral Region pp. 26-28, Muscles of the Pectoral Region, pp. 28-30, Axilla pp. 30-34 Dissect: Upper Limb, pp. 21-24, Scapular Region pp. 24-26, Arm and Cubital Fossa pp. 34-40 (detailed dissection of the cubital fossa may be postponed till Lab 13 on Feb. 28)	Sakaguchi (lecture) Faculty & TAs (lab)
Week 8	Feb 28	Lecture: Elbow & Forearm Lab 13: Demonstration &	Lecture-Moore et. al., pp 744-771 Lab-Grant's Dissector: Axilla, pp.	Kar (lecture)

		Dissection—Axilla & Brachial Plexus	30-34	Faculty & TAs (lab)
	Mar 3	Lecture:Wrist & Hand Lab 14: Demonstration & Dissection—Cubital Fossa & Forearm	Lecture-Moore et. al., pp 771-793 Lab-Grant's Dissector: Cubital Fossa, pp. 34-38 (if not already completed), Flexor Region of the Forearm pp. 40-46, Extensor Region of the Forearm and Dorsum of Hand pp. 53-57	Kar (lecture) Faculty & TAs (lab)
Week 9	Mar 7	Lecture: Module II Review Clinical Correlation Lab 15: Demonstration & Dissection—Hand	Lab-Grant's Dissector: Palm of the Hand, pp. 46-53	Faculty (lecture) Faculty & TAs (lab)
	Mar 10	Module II Written Exam & Lab Practical (Upper Limb)		Faculty & TAs
Week 10	Mar 21	Lecture: Organization of the Lower Limb, Gluteal Region, Posterior Thigh, & Popliteal Fossa Lab 16: Demonstration & Dissection—Osteology of Lower Limb & Gluteal, Posterior Thigh & Popliteal Fossa	Lecture-Moore et. al., pp 510-568, 512-520, 566-569- 572-583 Lab-Grant's Dissector: Anal Triangle pp.127-128 (skin and superficial fascia only),The Lower Limb pp. 165-169, Gluteal Region pp. 176-181, Posterior Compartment of the Thigh and Popliteal Fossa pp. 181-184	Sakaguchi (lecture) Faculty & TAs (lab)
	Mar 24	Lecture: Pelvis, Hip, Anterior & Medial Thigh Lab 17: Demonstration & Dissection— Anterior & Medial Thigh, Anterior Leg & Dorsum of foot	Lecture-Moore et. al., pp. 510-520, 525-527, 532-541, 545, 562, 626-634, 659-660 Lab-Grant's Dissector: Anterior Compartment of the Thigh, Medial Compartment of the Thigh pp.169-176, Anterior Compartment of the Leg, Dorsum of the Foot pp.190-193	Kar (lecture) Faculty & TAs (lab)
Week 11	Mar 28	Lecture: Knee and Leg Lab 18: Demonstration & Dissection— Lateral and Posterior Compartment of Leg	Lecture-Moore et. al., pp 587-609, 634-637, 661-665 Lab-Grant's Dissector: Lateral Compartment of the Leg pg.190, Posterior Compartment of the Leg pp.185-190	Sakaguchi (lecture) Faculty & TAs (lab)
	Mar 31	Lecture: Ankle & Foot Lab 19: Demonstration & Dissection—Sole of Foot (Dissection by assignment)	Lecture-Moore et. al., pp 520-525, 527-531, 609-626, 647-658- Lab-Grant's Dissector: Sole of the Foot pp. 193-198	Bhattacharya (lecture) Faculty & TAs (lab)
Week 12	Apr 4	Lecture: Module III Review Clinical Correlations Lab 20: Lower Extremity Activities Optional Review: Module II Exam Results		Faculty (lecture) Faculty & TAs (lab)

	Apr 7	Module III Written Exam and Lab Practical (Lower Limb)		Faculty & TAs
Week 13	Apr 11	Lecture: Neck Lab 21: Demonstration—Neck Assisted Self Study	Lecture-Moore et. al., pp 982-1051 Lab-Grant's Dissector: Organization of the Neck; Posterior Triangle of the Neck; Anterior Triangle of the Neck; Root of the Neck, pp 205-218	Bhattacharya (lecture) Faculty & TAs (lab)
	Apr 14	Lecture: Face & Infratemporal Fossa Lab 22: Demonstration—Face & Infratemporal Fossa Assisted Self Study	Lecture-Moore et. al., pp 842-865, 914-928 Lab-Grant's Dissector: Head, Face, Parotid Region pp 218-228; Temporal Region pp 230-235	Bhattacharya (lecture) Faculty & TAs (lab)
Week 14	Apr 18	Lecture: Cranial Cavity (Skull), Scalp & Meninges Optional Review: Module III Exam Results Lab 23: Demonstration—Skull, Scalp & Meninges Assisted Self Study	Lecture-Moore et. al., pp 820-888 Lab-Grant's Dissector: Scalp pp 228-230, Interior of the Skull pp 235-238, Removal of the Brain pp 238-239, Dural Infoldings and Dural Venous Sinuses pp 239-240	Rangel (lecture) Faculty & TAs (lab)
	Apr 21	Lecture: Brain, Cranial Nerves & Vessels Lab 24: Demonstration— Brain, Cranial Nerves & Vessels Assisted Self Study	Lecture-Moore et. al., pp 878-888, 1053-1082 Lab-Grant's Dissector: Gross Anatomy of the Brain pp 240-242, Cranial Fossae pp 242-245	Rangel (lecture) Faculty & TAs (lab)
Week 15	Apr 25	Lecture: Nose, Mouth, Pharynx & Larynx Lab 25: Module IV whole class lab review Nose, Mouth, Pharynx & Larynx— Self-Study Demonstrations	Lecture-Moore et. al., pp 928-930, 955-965, 1022-1030, 1032-1038, 1044-1048	Bhattacharya (lecture) Faculty & TAs (lab)
	Apr 28	NO CLASS—BATTLE OF FLOWERS HOLIDAY		
Week 16	May 2	Module IV Written Exam and Lab Practical (Head & Neck)		Faculty & TAs

*Moore, Dalley and Agur, *Clinically Oriented Anatomy, 7th Edition*, 2014

† Tank, Patrick W., *Grant's Dissector, 15th Edition*, 2014.