



The Shimadzu School of Radiologic Sciences

Robert D. & Carol Gunn College of Health
Sciences & Human Services

Course Syllabus: RADS 4733 Sectional Anatomy

Course Information

Name: Sectional Anatomy

Credit: 3 hours

Term: Spring 2024

Professor: Melanie Billmeier, M.S.R.S., R.T. (R)

E-mail: melanie.billmeier@msutexas.edu

Use this format in the subject line: 4733_your last name_topic of the message

Example: 4733_Smith_Discussion 2

E-mail is the best way to contact me. If I haven't responded within 72 hours, please email me again.

Phone: (972)410-0128

Office location: Midwestern State University
100 Parker Square, #122
Flower Mound, TX 75028

Office hours: Please make an appointment by e-mail.

Course Overview

Prerequisite(s): None

This course is a study of human anatomy viewed in sectional planes. Students will compare planar anatomy to sectional anatomy and recognize anatomical structures in computed tomography and magnetic resonance imaging. Studies will include the cranium, brain, spine, neck, chest, abdomen, pelvis, and extremities.

Course Objectives

Radiologic technologists should demonstrate increased awareness of how the human body is arranged three-dimensionally. This course provides opportunities to recognize relationships between standardized anatomical structures prior to working with variations found in "live" patients.

Upon completion of this course, a student will:

- Recognize anatomic structures in various planes.
- Relate planar anatomy to line drawings of related cross-sectional anatomy.
- Describe the spatial relationship of one structure to another.
- Differentiate between the appearances of anatomic structures among different modalities such as Computed Tomography. (CT) and Magnetic Resonance Imaging (MRI).
- Identify the strengths and weaknesses of each imaging modality for identifying specific pathological processes.

Teaching Strategies

Independent reading assignments, study guides, Desire2Learn (D2L) modules, Sectional anatomy assignment, optional learning activities, open book module quizzes, and a closed book proctored final exam are used in this course.

Course Materials

Textbooks

Required:

Kelley, L.L. & Petersen, C.M. (2018). Sectional anatomy for imaging professionals. (4th ed.). St. Louis, MO: Elsevier [ISBN: 978-0-323-41487-6]
American Psychological Association. (2020). Publication manual of the American Psychological Association (7th ed.). Washington, DC: American Psychological Association. [ISBN 978-1-4338-3216-1]

Internet connectivity

Students need an up-to-date computer with an internet connection in this course.

Proctor Specifications and Computer Requirements

- PC Users: A well-working computer running Windows XP or higher with 1024 MB of RAM or higher.
- Mac Users: A well-working computer running Mac OS X or higher.

- Headphones or working speakers connected to the computer.
- Webcam (for proctoring)
- A reliable high-speed internet connection (minimum 768 Kbps/384 Kbps Download/Upload).
- A web browser with Adobe Flash Player installed.

Course Requirements The student must:

- Complete reading assignments.
- Successfully complete the required online examinations, including a proctored final exam.
- Complete Sectional Anatomy PowerPoint Assignment.
- Meet all submission deadlines.

Communication with Instructor

Contact information for the instructor is listed at the beginning of this syllabus. Email is the preferred mode of communication so there is a record of the communication and often she is away from her office.

When emailing the instructor, please use the following subject header:

4733_your last name_topic of message

Example: 4733_Smith_Quiz 4

When there is a need to contact a student, the instructor will use the student's students.mwsu.edu email account. The instructor is not responsible for sending emails to any other email account (set up your email to forward messages to an email you check often to avoid potentially missing any correspondence).

Faculty members will not be responsible for keeping up with other email addresses for students. If you have not established this account or you need help forwarding messages, do so as soon as possible by going to MSU IT Help.

The professor will respond or at least acknowledge email messages from students within a maximum of five (5) business days when MSU is in session. Beyond standard university holidays and breaks, the instructor will notify students of any extended periods of time when email contact is not practical (professional meetings, etc.).

The instructor will be available to meet either in person or via telephone with any interested students by appointment.

Evaluation

Grading

Assignments will be graded in a timely manner after the published due dates. The professor will not grade assignments early nor will be professor “pre-grade” assignments. The professor is committed to your education and will answer relevant questions about course topics so long as such answers do not compromise specific assignments or specific test questions.

Grade distribution

- 35% D2L open book module quizzes (4.375% each quiz x 8 modules)
- 25% Sectional Anatomy PowerPoint Assignment
- 40% Proctored D2L comprehensive closed book final exam

Grade Scale

A = 100 – 89.5

B = 89.4 – 79.5

C = 79.4 – 69.5

D = 69.4 – 59.5

F = 59.4 and below

Pronouns:

Names and pronouns are deeply personal. Assumptions about them can cause harm. In this class, we will respectfully use whatever name and pronouns peers, authors, and community members ask us to use. If we make a mistake, we will respectfully correct ourselves. To learn more about personal pronouns and why they are important, please visit MSU Texas' Guide to Pronouns and pronouns.org

Institutional Information

Last day to Withdraw For the Spring 2024 semester, the last day to withdraw from a course with a “W” is April 24 by 4:00 PM.

Special needs

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a

disability requiring an accommodation, please contact the Disability Support Services in Room 168 of the Clark Student Center, (940) 397-4140.

Administrative process

Unresolved issues related to this course should be first addressed between the student and the course instructor. If there is no resolution, students must follow this sequence:

1. Department Chair – Dr. Beth Vealé (940-397-4611)
2. College Dean - Dr. Jeff Killion (940-397-4679)
3. Dean of Students – Matthew Park (940-397-7500)

Senate Bill 11

Senate Bill 11 Senate Bill 11, passed by the 84th Texas Legislature, allows licensed handgun holders to carry concealed handguns on campus, effective August 1, 2016. Areas excluded from concealed carry are appropriately marked in accordance with state law. For more information regarding campus carry, please refer to the [University's campus carry webpage](#). If you have questions or concerns, please get in touch with MSU Interim Chief of Police [Steven Callarman](#) by email at steven.callarman@msutexas.edu.