R T 75: SECTIONAL ANATOMY

Foothill College Course Outline of Record

Heading	Value
Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C or equivalent.
Advisory:	Not open to students with credit in DMS 51A.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	DMS 51A

Student Learning Outcomes

- Define and use reference points, planes, and terminology related to medical imaging.
- Identify the anatomy of the body cavity and head in multiple anatomical planes.

Description

Human anatomy of the head and body cavities is presented for the health care professional in transverse, sagittal and coronal imaging planes, with specific correlation to sonographic, computed tomographic and magnetic resonance imaging modalities. Anatomic reference points, intersecting planes and medical terminology are used to identify relationships of organs as well as pathologic alterations. DMS 51A and R T 75 deliver the same content: DMS 51A is intended for students in the Diagnostic Medical Sonography Program, and R T 75 is intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in these programs.

Course Objectives

The student will be able to:
A. define and use reference points, planes, and terminology related to medical imaging.
B. identify the anatomy of the head and brain, the thoracic cavity, and the abdomino-pelvic cavity in all three imaging planes.
C. identify each described organ's internal anatomy.
D. recognize gross pathologic alterations.
E. compare and contrast the differences of image presentation by various imaging modalities.
F. discuss the various medical equipment which views the human body as it relates to anatomy in sectional planes and the role of cultural group acceptance.

Course Content

A. Anatomical Terminology and Orientation
1. Review of medical terminology
2. Body planes
3. Orientation of anatomy in the cross section and sagittal planes
B. Sectional Anatomy of Organs and Systems
1. Cranium
2. Facial bones
3. Brain
4. Neck
5. Thorax
6. Heart
7. Abdomen
8. GI system
9. GU system
10. Muscles
11. Pelvis
12. Skeletal system
C. Pathology of Organs and Systems
D. Comparative Analysis of CT, MRI, Sonography

Lab Content

Not applicable.

Special Facilities and/or Equipment

A. DVD/TV, internet access, computer, monitor, viewboxes.

Method(s) of Evaluation

A. Quizzes
B. Examinations
C. Comprehensive final examination

Method(s) of Instruction

A. Lecture presentations
B. Classroom discussions
C. Assessments, participation and homework

Representative Text(s) and Other Materials

Kelley, Lorrie L., and Petersen, Connie M. Sectional Anatomy for Imaging Professionals. 4th ed. St. Louis: Mosby-Year Book, 2018.

Kelley, Lorrie L., and Petersen, Connie M. Sectional Anatomy Study Guide. 4th ed. St. Louis: Mosby-Year Book, 2018.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

A. Weekly reading assignments from text.

B. Completion of workbook chapters.

C. Homework from review questions at the end of each chapter of the textbook.

Discipline(s)

Radiological Technology