

COURSE DESCRIPTION

An introductory imaging course for the TCM student. This course provides an overview of radiation physics and protection, normal radiographic anatomy, common pathologies, radiologist reports and ordering imaging for diagnostic purposes. Areas of discussion include: X-Ray, CT, MRI, PET, Ultrasound and Nuclear Medicine.

LEARNING OBJECTIVES

This course provides an overview of imaging tests and procedures used in modern medicine. Areas of discussion include X-ray, CT scan, MRI, PET scan, nuclear studies, ultrasound.

Objectives:

1. To learn about basic physics of imaging techniques, indications, contraindications, and adverse effects of the tests.
2. To appreciate the images obtained and the actual visual findings.
3. To understand a standard report terminology.
4. To prepare students to refer to, and communicate with, other health care practitioners in regards to medical imaging.

COURSE PREREQUISITES

Pathophysiology I-IV, Physics

REQUIRED TEXTS

Lisle, D. (2012) *Imaging for Students* 4th Edition., Taylor & Francis Group. ISBN-13: 978-1444121827

RECOMMENDED TEXTS

COURSE REQUIREMENTS

50% - Module 1 examination
50% - Module 2 examination

GRADING SCALE: 100-90% A, 89-80% B, 79-70% C, 69% and below F

SPECIAL NOTES

No texting or phone use permitted in class. No video recording is permitted under any circumstances.

Professionalism and Full and Prompt Attendance: To pass any course (separate from academic performance) all students must meet requirements for professionalism in coursework. Professionalism includes full and prompt attendance: Students who miss more than 2 class meetings in a 10-week course will earn an F in that course. Additionally, students who arrive more than 15 minutes to class or leave class before it ends will be marked tardy. Two tardies equal one absence. NOTE: Students who leave and return to class late from a break or leave during the class (especially if this is repeated) or who disrupt the class in other ways may be referred to the Academic Dean for professionalism.

CLASS ONE (The syllabus is subject to change at the discretion of the instructor.)

2 Units INTRO TO MEDICAL IMAGING PROCEDURES

Radiography & Contrast Materials

CLASS TWO

Computed Tomography

CLASS THREE

Ultrasound

CLASS FOUR

Nuclear Medicine

CLASS FIVE

Magnetic Resonance Imaging

CLASS SIX

Module 1 Exam

CLASS SEVEN

Respiratory & Cardiovascular System Imaging

CLASS EIGHT

Musculoskeletal System Imaging

CLASS NINE

Central Nervous System Imaging

CLASS TEN

Imaging in Oncology

CLASS ELEVEN

Module 2 Exam

REFERENCE MATERIAL

Please contact Dr. Downie with questions at docdownie.emperors@gmail.com

Check for Course notes, materials and Course Manual links at EmperorsWesternScience.wordpress.com

FACULTY INFO

Downie, Patrick

Please check with instructor during class to get updated contact info.

312.569.0747

docdownie.emperors@gmail.com

Dr. Downie graduated from National College of Chiropractic in Lombard, Illinois in 1996 and pursued additional clinical training in orthopedics and neurology. He was Co-Director of a NIH CAM research grant at Rush University College of Nursing, practiced as a staff Chiropractor at Northwestern Medicine's Center for Integrative Medicine, and served as both a professor and Bioscience Department Chair at Pacific College of Oriental Medicine, in Chicago for over a decade. Dr. Downie is an active member of the American Association of Anatomists. Please contact Dr. Downie with questions at docdownie.emperors@gmail.com or text 312.569.0747