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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.

Suggested referrals for imaging test results include review of the fields of internal medicine, pharmacology, neurology, surgery, obstetrics/gynecology, urology, radiology, nutrition and public health.

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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.

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COURSE PREREQUISITIES

Pathophysiology I-IV, Physics

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REQUIRED TEXTS

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

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RECOMMENDED TEXTS

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COURSE REQUIREMENTS

Out-of-Class Work

To successfully complete the program, students need to plan studying a minimum of 2 hours out-of-class for each academic in-class hour; and half an hour out-of-class for each hour of clinical training.

**Post Class Quiz: 20% of grade (open book) to be completed within 48 hours (late post-class quiz grade will be reduced by 10% for each 24 hour period late)**

**Mid-term Exam: 40%**

**Final Exam: 40%**

**Extra Credit: (10 grade point value) - 2000 word paper on Medical Imaging; Times Roman font/12 pint font, 1" margins, 1.5 spaced; JAMA Citations**

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

EMPEROR'S COLLEGE  
MTOM COURSE SYLLABUS  
**INTRO TO MEDICAL IMAGING PROCEDURES**

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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.

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

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CLASS TWO  
Radiography

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CLASS THREE  
Magnetic Resonance

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CLASS FOUR  
Nuclear Medicine

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CLASS FIVE  
Mid-term Exam

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CLASS SIX  
**Ultrasound**

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CLASS SEVEN  
Imaging in Musculoskeletal

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CLASS EIGHT  
Imaging in Internal Medicine

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CLASS NINE  
Imaging in Oncology

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CLASS TEN  
Final Exam

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CLASS ELEVEN

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REFERENCE MATERIAL

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FACULTY INFO

Course Code **WS590**  
2 Units  
20 Hours

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*Plonka, Derek*  
*Fall 2018*

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