[A-3]COURSE SYLLABUS

1. Course Description (Approximately 100 words)

This course is an introduction to radiologic science. The content is designed to prepare students for upcoming academic study and clinical experiences. Topics include medical terminology, introduction to imaging, equipment, radiation protection, patient management, positioning principles, and roles of medical imaging professionals as parts of the health care team.

2. Course Goals and Objectives (Approximately 100 words)

Review relevant anatomy, pathophysiology, technology, and performance of examinations as it relates to the daily practice of radiology.

For a given clinical scenario, be able to recognize the radiological examinations available, know the relative appropriateness criteria, and devise a logical course of action to answer the clinical question(s).

Recognize and communicate the relevant clinical presentation as it pertains to the request for and interpretation of radiological examinations.

Given a clinical scenario and radiological findings, generate an appropriate, ordered, differential diagnosis and a plan for management of the patient (next exam, treatment, consultation of a specialist).

Learn very basic plain film and CT interpretation and become familiar with sonography and MR. Recognize limitations in knowledge and understanding of radiological interpretation.

3. Textbook (Title, Author, Publisher, Year of Publication, etc.)

An Introduction to Radiography, 13 Nov 2008 by Suzanne Easton (Author)

Essential Physics for Radiographers, 1997 by John Ball (Author), Adrian D. Moore (Author)

Clark's Essential Physics in Imaging for Radiographers (Clark's Essential Guides) 2013 by Ken Holmes (Author), Marcus Elkington (Author), Phil Harris (Author)

4. Reference

An Introduction to Radiography, 13 Nov 2008 by Suzanne Easton (Author)

5. Course Requirements and Grades

EXAM = 70%
C.A.T. = 20%
QIUZES=10%

TOTAL = 100%

6. Course Calendar

Week	Main Content
1	Introduction to radiology
2	Radio-active elements
3	Radio-active decay
4	Radioactive Isotopes
5	Fluoroscopy
6	Single-photon emission computed tomography
7	CAT AND PRESENTATIONS
8	Radioisotopes in medicine
9	Nuclear Scintigraphy
10	LASER
11	LASER continued
12	BIOLOGICAL EFFECTS OF RADIATION,
13	SUMMARY, REVISION AND ASSIGNMENTS
14	EXAMINATION