

RAD 521, 3 Credit Hours, Advance Practice of Radiologic/Imaging Sciences I Course Syllabus

INSTRUCTOR:

Brandon Hirsch
bhirsch110@siu.edu
(618) 453 – 8889

Class Time & Location: Desire to Learn Online Access Only

OFFICE HOURS:

Location: College of Applied Science and Arts – 120B
Tuesday: 12:00 p.m. – 3:00 p.m.
Thursday: 12:00 p.m.–3:00 p.m.
Friday: 8:00 a.m. – 9:00 a.m.

COURSE DESCRIPTION:

This course will continue to cover the same topics that were reviewed in RAD 541. Topics include: Radiation physics, radiation biology, anatomy, pharmacology, human disease/pathology, advanced imaging methods, advanced imaging modalities, and patient care.

PREREQUISITES TO:

N/A

COURSE OBJECTIVES:

The objectives of RAD 521, Advance Practice of Radiologic/Imaging Sciences I are to gain a greater understanding of the following topics

1. Radiation Physics
2. Radiation Biology
3. Anatomy
4. Pharmacology
5. Human Disease/Pathology
6. Advanced Imaging Methods
7. Advanced Imaging Modalities
8. Patient Care

TOPICAL OUTLINE:

I.	Radiation Physics	12.5%
II.	Radiation Biology	12.5%
III.	Anatomy	12.5%
IV.	Pharmacology	12.5%
V.	Human Disease/Pathology	12.5%
VI.	Advanced Imaging Methods	12.5%
VII.	Advanced Imaging Modalities	12.5%
VIII.	Patient Care	12.5%

TEXTBOOKS:

Required: Hall, E.J., Giaccia, A.J. (2012). “Radiobiology for the Radiologist, 7th edition. Philadelphia, PA: Lippincott Williams & Wilkins. ISBN-13: 978-1608311934.

Jensen, S.C., Peppers, M.P., (2005).” Pharmacology and Drug Administration for Imaging Technologists, 2nd edition.” St. Louis, MO: Mosby, Inc. (Elsevier). ISBN-13: 978-0323030755.

Bushong, S.C. (2013). “Radiologic Science for Technologists: Physics, Biology and Protection, 10th ed.” St. Louis, MO: Mosby, Inc. (Elsevier). ISBN-13: 978-0323081351

MEANS OF STUDENT EVALUATION:

Test =	70%
Quizzes & Assignments =	30%

A = 93-100%

B = 85-92%

C = 77-84%

D = 70-76%

F = 0-69%

ATTENDANCE POLICY:

While there is no formal attendance policy, please check email daily and online platform (D2L) as this will be our mode of communication.