COURSE DEFINITION:
RAD 555-2 The Physics of Medical Dosimetry III – This course covers the following topics: Monitor Unit (MU) calculations, point dose calculations and radiation biology. This course is ten weeks in length. Prerequisite: A grade of “C” or better in RAD 540.

COURSE OBJECTIVES:

1. Demonstrate an understanding of monitor unit calculations.
2. Demonstrate an understanding of point dose calculations.
3. Demonstrate an understanding of radiation biology.

COURSE OUTLINE:

Topics
1. Monitor unit calculations
2. Point dose calculations
3. Radiation Biology

COURSE REQUIREMENTS:

Purchase all texts, attend all lectures, and complete required examinations, quizzes, and homeworks. Purchase a T130XA scientific calculator.

PREREQUISITES: A grade of “C” or better in RAD 540.

TEXTBOOKS:

Required:


Optional: (Students typically use clinical sites’ copy)


GRADING SCALE:

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>&lt;70</td>
<td>Failing</td>
</tr>
</tbody>
</table>

Grades will be determined by:

Test Performance 70%
Quizzes/Homework 30%
Late work will not be accepted. No credit will be awarded for work submitted after the deadline.

Note: An overall GPA of 3.0 or greater in all graduate coursework is required to successfully complete the Medical Dosimetry Program. This is a SIUC Graduate School Policy.

Note: A Final Comprehensive Exam will be given during this course and one must receive a passing grade (≥80%) to pass the course. If a score is less than an 80%, a grade of an F will be given. (This exam is comprehensive for the entire program year)