

## **MASTER SYLLABUS**

**COURSE NO., HOURS, AND TITLE:** RAD556, 3, Individual Research in Medical Dosimetry.

### **COURSE DESCRIPTION:**

This course requires students to complete a research project in the field of Medical Dosimetry. Each project will have a written paper as a final product and this paper will be submitted for publication in one of the professional journals within the field of Radiation Oncology.

### **PREREQUISITE TO:**

N/A

### **COURSE OBJECTIVES:**

The primary objective of RAD556 is to instill in the student an understanding of the research and publication process. At the conclusion of this course, the student will be able to:

1. Identify the components of a research project;
2. Identify and understand basic statistical analysis;
3. Identify and understand author guidelines from professional journals;

### **TOPICAL OUTLINE:**

#### **Topics**

I.	Components of a research project	25%
II.	Statistical analysis of data	25%
III.	Identifying author guidelines and writing project	50%

**TEXTBOOKS:**

**Required:**

Polgar, S. & Thomas, S. (2008). *Introduction to research in the health sciences, (5th ed)*. Philadelphia, PA: Churchill Livingstone Elsevier

**Recommended:**

Shi, L. 1997. *Health services research methods*. Albany, NY: International Thomson Publishers.

Kuzma, J. W. & Bohnenblust, S. E. (2004). *Basic statistics for the health sciences (5<sup>th</sup> ed)* Columbus, OH: McGraw-Hill.