Medical Dosimetry (M.S.)

Prerequisite Verification & GPA Calculation Worksheet

2027
Application Year

Student _____ G# _____ Date _____

Applicants should have a minimum grade "C" in the following courses (or equivalents), if you do not have a minimum of "C", still list the course and corresponding grade. Use the course descriptions of the classes you have taken, and the course descriptions of the GVSU courses to best correspond the content covered in the courses. You may list a course more than once if it covers multiple GVSU courses. Provide an explanation or plan of completion for courses not yet completed. Please see the admissions website for detailed information.

Step 1: **Prerequisite Courses**...enter course title and code, where you took the course, grade value, credit hours and quality points. Quality points are calculated by multiplying grade value by credit hours.

GVSU Course	Prerequisite Course	Code & Course Title	School Completed	*Grade Value	Credit Hours (Column A)	Quality Points (Column B)
	Example	STA 215 Statistics	Grand Valley State Univ.	4.0	3	12.0
BMS 250	**Anatomy and Physiology I**					
BMS 251	**Anatomy and Physiology II**					
PHY 220	**General Physics I with lab**					
PHY 221	**General Physics II with lab**					
STA 215	**Introductory Applied Statistics**					
RIT 302	**Radiation Protection Physics**					
RIT 322	**Radiation Biology**					
RIT 330	**Radiation Therapy Prin. & Practices I**					
RIT 331	**Radiation Therapy Prin. & Practices I Lab**					
RIT 332	**Radiation Therapy Principles & Practices II**					
RIT 333	**Radiation Therapy Principles & Practices II Lab**					
RIT 420	**Radiation Therapy Physics I**					
RIT 441	**Gross Human Sectional Anatomy**					
RIT 458	**Neoplasms**					
RIT 470	**Radiation Therapy Treatment Planning**					
RIT 471	**Radiation Therapy Treatment Planning Lab**					
RIT 472	**Introduction to Medical Dosimetry**					
RIT 473	**Introduction to Medical Dosimetry Lab**					
				Column A & B Totals		

Step 2: **Prerequisite GPA Calculation**...enter totals from column A & B above on the corresponding line below and calculate your prerequisite GPA.

_____ ÷ _____ = _____

Total Quality Points [B] Total Credit Hours [A] **Prerequisite GPA**

Step 3: List all Certificates, Associate, Bachelor's or Master's Degrees and anticipated or completion date:

*Grade Value	
A	= 4.00
A-	= 3.70
AB	= 3.50
B+	= 3.30
B	= 3.00
B-	= 2.70
CB	= 2.50
C+	= 2.30
C	= 2.0
C-	= 1.70
D+	= 1.30
D	= 1.00

College of Health Professions ~ Medical Dosimetry Graduate Office
Cook-DeVos Center for Health Sciences, 301 Michigan Street NE, Suite 412, Grand Rapids, MI 49503
Call us at 616-331-5700 or online at www.gvsu.edu/grad/dosimetry

Grand Valley State University
College of Health Professions

Advising Worksheet

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Radiation Therapy Prerequisite Courses	Course Descriptions
RIT 302 **Radiation Protection Physics**	This introductory course will cover the principles governing production of radiation, interaction of radiation with matter, protection of the radiation worker and patient from exposure, and use of various types of radiation (ionizing, sound, radio) to create radiologic, sonographic, and magnetic resonance images.
RIT 322 **Radiation Biology**	This lecture course considers the radiobiologic areas of radiation interactions, radio-sensitivity, radiation dose/response relationships, early and late radiation effects, radiation protection, and health physics.
RIT 330 **Principles & Practices in Radiation Therapy I**	Overview of cancer and the basic foundations of radiation therapy including: basic treatment techniques and patient setup, an introduction to patient simulation, an introduction to intensity modulated radiation therapy (IMRT) and special procedures, as well as identification and application of ethical and legal issues.
RIT 331 **Principles & Practices in Radiation Therapy I Lab**	Introductory lab on treatment and simulation techniques with patient setups specific for brain, lung, pelvis, abdomen, lumbar spine, and safe patient transfer techniques.
RIT 332 **Radiation Therapy Principles & Practices II**	Lecture and discussion sessions presenting intermediate concepts of radiation therapy treatment principles and practices for photon and electron dosimetry, neoplasms of the skin, genitourinary system, gynecologic system, gastrointestinal system, circulatory, endocrine, and respiratory systems.
RIT 333 **Radiation Therapy Principles & Practices II Lab**	This course provides intermediate laboratory sessions presenting concepts of radiation therapy treatment principles and practices for photon and electron dosimetry, skin, genitourinary, gynecologic, gastrointestinal, endocrine and respiratory neoplasms.
RIT 420 **Radiation Therapy Physics I**	Radiation therapy involves the use of ionizing radiation using various energies, particles, and techniques to treat malignancies and benign conditions, either curatively or palliatively. This course describes the principles of physics for the radiation therapist to understand the purpose of multiple radiation energies and the need for photons and electrons.
RIT 441 **Gross Human Sectional Anatomy**	This course is a study of human sectional anatomy as visualized by radiologic and imaging sciences modalities in planes relevant to the demonstration of head, thorax, abdomen, pelvic, spine, and extremity anatomy. Cadaver correlation to diagnostic medical sonography, echocardiography, diagnostic radiology, computed tomography, and magnetic resonance imaging is emphasized.
RIT 458 **Neoplasms**	Overview of the epidemiological, etiological, diagnostic, and treatment foundations of common malignant and benign lesions. Anatomical sites of exploration include: breast, prostate, ovary, colon, stomach, lymphoma, CNS, and skin.
RIT 470 **Radiation Therapy Treatment Planning**	Fundamentals of clinical radiation oncology treatment planning. Precise descriptive methods are presented for a wide range of typical patient conditions.
RIT 471 **Radiation Therapy Treatment Planning Lab**	Concepts in medical dosimetry as they are applied to clinical radiation oncology treatment planning. Presentations, demonstrations, and evaluations using laboratory treatment planning software are correlated to the lectures.
RIT 472 **Introduction to Medical Dosimetry**	Medical dosimetry concepts as they are applied to clinical radiation oncology treatment planning. Examples are given from clinical education sites that will be correlated with the corequisite laboratory.
RIT 473 **Introduction to Medical Dosimetry Lab**	Application of medical dosimetry concepts as they are applied to clinical radiation oncology treatment planning. Examples will be used from clinical education sites that will be correlated from the corequisite lecture course.

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