

Prerequisite Advising Worksheet

Medical Dosimetry (M.S.)

2022
Application Year

Student _____ G# _____ Date _____
(If applicable)
Email _____ Phone _____ GPA _____

Prerequisite Courses	School	Course Code	Course Title	Grade
Students are responsible for the completion of prerequisites & bachelor's degree before the start of the program.				
Anatomy and Physiology I (BMS 250)				
Anatomy and Physiology II (BMS 251)				
College Algebra or Trigonometry or Calculus I (MTH 122, or MTH 123 or MTH 201)				
General Physics I (PHY 220)				
General Physics II (PHY 221)				
Image Guided Principles of Radiation Therapy (RIT 424) (Previously: RIS 320)				
Radiologic Information Technology (RIT 401) (Previously: RIS 401)				
Gross Human Sectional Anatomy (RIT 441) (Previously: RIS 441)				
Neoplasms (RIT 458) (Previously: RIS 458)				
Radiation Protection Physics (RIT 302)				
Radiation Biology (RIT 322)				
Principles & Practices in Radiation Therapy I (RIT 330)				
Principles & Practices in Radiation Therapy I Lab (RIT 331)				

Application Requirements

Requirements for consideration of admission into the program are as follows:

- Priority application deadline: **February 1st** ...rolling admissions until all seats are filled
- [GVSU Graduate Application](#) - students must apply to and be admitted to GVSU
- Resume
- One to two page [personal statement](#)
- Three recommendations from health professionals (embedded within the graduate application, separate letters from references are NOT required)
- Official copies of ALL transcripts **sent directly to the GVSU Admissions Office in Allendale.**
- Statement describing how prerequisite courses not yet completed will be done PRIOR to entry in the program
- Applicants whose native language is not English must submit results of TOEFL test. [Refer to this link for more information.](#)

Students interested in part-time studies who have a clinical site available should contact the Program Director.

College of Health Professions ~ Medical Dosimetry Graduate Office
Cook-DeVos Center for Health Sciences, 301 Michigan Street NE, Suite 200, Grand Rapids, MI 49503
Call us at 616-331-5700 or online at www.gvsu.edu/grad/dosimetry

Advising Worksheet

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Radiation Therapy Prerequisite Courses	Course Descriptions
RIT 424: Image Guided Principles of Radiation Therapy	This course is designed to teach competent operation of current imaging equipment within the field of radiation oncology, including knowledge in factors that govern and influence the production and recording of radiographic images for patient simulation, treatment planning, and treatment verification within the field. Offered winter semester. <i>Previously RIS 320</i>
RIT 401: Radiologic Information Technology	This course provides information related to fundamental concepts of medical and health informatics methods and techniques involved in the integration of computer systems in medical centers, specifically radiologic centers. Students will be introduced to health information systems, data representation and standards, privacy, security, and management of health information. Offered fall semester. <i>Previously RIS 401</i>
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. Offered winter semester. <i>Previously RIS 441</i>
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. Offered fall semester. <i>Previously RIS 458</i>
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. Offered fall semester.
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. Offered winter semester.
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. Offered fall semester.
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. Offered fall semester.

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