Grand Valley State University
College of Health Professions

Prerequisite Advising Worksheet

# Medical Dosimetry (M.S.)

**2017**
Application Year

Student: _____ G#: _____ Date:_____
(if applicable)

Email: _____ Phone: _____ GPA: _____

| **Prerequisite Courses…** Students are responsible for the completion of prerequisites & bachelor's degree *before* the start of the program. | **School** | **Course Code** | **Course Title** | **Grade** |
|---|---|---|---|---|
| BMS 250 **Anatomy and Physiology I** (GV recommended prerequisites: BIO 120) | | | | |
| BMS 251 **Anatomy and Physiology II** (GV prerequisite: BMS 250) | | | | |
| MTH 122 **College Algebra** (GV prerequisite: MTH 110) | | | | |
| MTH 123 **Trigonometry** (GV prerequisites: MTH 122 (may be taken concurrently)) | | | | |
| MTH 201 **Calculus I** (GV prerequisites: MTH 122 & MTH 123) | | | | |
| PHY 220 **General Physics I** (GV prerequisites: MTH 122 & MTH 123) | | | | |
| PHY 221 **General Physics II** (GV prerequisite: PHY 220) | | | | |
| RIS 322 ***Radiation Protection Physics** | | | | |
| RIS 441 ***Gross Human Sectional Anatomy** | | | | |
| RIS 458 ***Neoplastic Clinical RIS** | | | | |
| RIT 322 ***Radiation Biology** (GV prerequisite: RIS 322) | | | | |
| RIT 330 ***Radiation Therapy Principles and Practices I** (GV corequisites: RIT 331 & RIS 322) | | | | |
| RIT 331 ***Radiation Therapy Principles and Practices I Lab** (GV corequisites: RIS 322 & RIT 330) | | | | |

*GV prerequisites: requires Admission to the radiation therapy major

## Medical Dosimetry Application Requirements ~ Application deadline: **January 1**

**GVSU Admission Materials & Requirements:**

- Completed GVSU Graduate Application with a $30 nonrefundable application fee, unless previously paid to GVSU.
- Official transcripts from ALL institutions of higher education previously attended. Transcripts must be sent from those institutions directly to the GVSU Admissions Office. **NOTE: We do not require official transcripts from Grand Valley.**
- Although the GRE is not required for admission at this time, it is recommended because of the competitive admissions process.
- A one to two page statement of professional goals.
- Three recommendations (embedded within the graduate application).
- Resume - list ALL health care experiences (volunteer, paid, job shadow) under one section of the resume; all other experiences can be listed below your health care experience.
- Statement describing how prerequisite courses not yet completed will be done PRIOR to entry in the program.
- Official test scores from the TOEFL or IELTS or MELAB for applicants whose native language is not English.

**Students will be notified of acceptance into the program by March 1. Medical Dosimetry program begins each August.**

**College of Health Professions ~ Medical Dosimetry Graduate Office**
Cook-DeVos Center for Health Sciences, 301 Michigan Street NE, Suite 164, Grand Rapids, MI 49503
Call us at 616-331-5700 or online at www.gvsu.edu/grad/dosimetry

**College of Health Professions – Student Services Office** www.gvsu.edu/chpss

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COLLEGE OF HEALTH PROFESSIONS

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| Prerequisite Courses | Course Descriptions |
|---|---|
| **RIS 322 Radiation Protection Physics** | The characteristics that allow radiation to be used successfully in the clinic can result in dangerous outcomes for patients, the general public or radiation technologists. This course will familiarize students with the nature of ionizing radiation that allow it to be exploited for desired characteristics while minimizing potentially undesirable effects.<br>Credits: 2 |
| **RIS 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, abdominal, pelvic, and extremity anatomy in a clinical environment. Cadaver correlation to diagnostic medical sonography, echocardiography, computed tomography, and magnetic resonance imaging is emphasized.<br>Credits: __ |
| **RIS 458 Neoplastic Clinical RIS** | Overview of the pathologic foundations of neoplasms and the radiation/imaging practitioners' role in the health care delivery system. This course will introduce common sites of benign conditions, malignant lesions as well as typical treatment regimens, including those for breast, prostate, ovary, colon, stomach, lymphoma, CNS, and skin.<br>Credits: ___ |
| **RIT 322 Radiation Biology** | This lecture course considers the radiobiologic areas of radiation interactions, radiosensitivity, radiation dose/response relationships, early and late radiation effects, radiation protection, and health physics. Offered winter semester. Prerequisite: RIS 322.<br>Credits: 2 |
| **RIT 330 Radiation Therapy Principles and Practices I**<br>(GV corequisites: RIT 331 & RIS 322) | 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. Prerequisite: Admission to the radiation therapy program. Corequisite: RIT 331.<br>Credits: 4 |
| **RIT 331 Radiation Therapy Principles & Practices I Lab**<br>(GV corequisites: RIS 322 & RIT 330) | 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. Prerequisite: Admission to the radiation therapy program. Corequisite: RIT 330.<br>Credits: 1 |