Radiation Sciences Program Courses (RSP)

RSP Courses

This is a list of courses with the subject code RSP. For more information, see Radiation Sciences (Carver College of Medicine) in the Catalog.

RSP:1100 Introduction to the Radiation Sciences  1 s.h.
- Exploration of radiation sciences field (radiologic technology, nuclear medicine and PET, diagnostic medical sonography, radiation therapy, computed tomography, magnetic resonance imaging, cardiovascular interventional);
- introduction to basic principles and modalities associated with the field in preparation for application to radiation sciences or nuclear medicine technology major.

RSP:2110 Pathology for Radiation Sciences  2 s.h.
- General pathologic processes; introduction to imaging modalities; pathological terms that describe the body's response to stress and disease; how the body responds to and forms pathological diseases (e.g., infectious and parasitic diseases, inflammation and repair, immunopathology, neoplasia, genetic disorders, dietary deficiencies and excesses, hemodynamic disorders, trauma and emergencies).
- Requirements: acceptance to radiation science degree track.

RSP:2120 Patient Care for the Radiation Sciences  3 s.h.
- Foundation for providing care to clients during radiographic examinations; taking medical histories, basic life support, medical emergencies, vital sign assessment, body mechanics, infection control, sterile techniques, intravenous equipment, administration; advance concepts in client assessment and monitoring, including evaluation and monitoring of clients in pain, and clients in acute and chronic states of illness; communication techniques, role playing.
- Requirements: acceptance to radiation science degree track.

RSP:3130 Radiation Safety and Radiobiology  2 s.h.
- Instruction on safe operation of radiation producing equipment and handling of radioactive materials; origin and/or derivation of certain formulae and techniques useful in radiation protection programs; regulatory agencies, regulations, and regulatory guides pertinent to student's field; emphasis on applied aspects of radiation protection; characteristics and biological effects of ionizing radiations, properties and uses of radioisotopes, medical applications, and biological basis for protection procedures.
- Requirements: enrollment in radiation sciences or nuclear medicine technology program. Same as FRRB:3130.

RSP:3210 Medical Ethics and Law  2 s.h.
- Introduction to ethical reasoning and problem solving; integration of knowledge about patient care and ethical/legal issues which occur in process of providing care; ethical principles of autonomy, beneficence, justice, nonmaleficence, paternalism, Patient's Bill of Rights, resolving moral dilemmas; legal principles of malpractice, intentional torts, negligence.
- Requirements: radiation science or nuclear medicine technology major.

RSP:3220 Radiation Sciences Quality Management and Health Care Administration  2 s.h.
- Introduction to health care administration; quality management, safety, and patient satisfaction concepts for the radiation sciences professional.
- Requirements: radiation sciences or nuclear medicine technology major.

RSP:4110 Research Methodology for Radiation Sciences  3 s.h.
- Introduction to research concepts and methods for the radiation sciences professional.
- Requirements: radiation sciences or nuclear medicine technology major.