



## **RADIOLOGIC SCIENCES** | COLLEGE OF HEALTH AND HUMAN SERVICES

### **B.S. IN RADIOLOGIC SCIENCES**

Radiology is a science involving the medical use of X-rays, radium, and radioactive isotopes in the diagnosis and treatment of disease.

A Bachelor of Science in Radiologic Sciences offers individuals the opportunity to pursue one of three separate concentrations:

- Advanced Clinical/Health Management for the Associate Degree Radiographer
- Diagnostic Medical Sonography
- Radiation Therapy

Diagnostic medical sonography and radiation therapy are open to individuals with either a health professional Associate of Science degree or a non-health professions background.

### **DEGREE REQUIREMENTS**

A Bachelor of Science in Radiologic Sciences degree requires satisfactory completion of 122 credit hours, including the prerequisite and professional coursework. All professional courses must be completed with a 2.0 grade point average or higher. Classes take place during the day. Clinical experience is scheduled in cooperation with the clinical site and is, for the most part, during normal daytime hours.

Students may apply online for admission to the Radiologic Sciences Program after qualifying for regular admission to Indiana University. Admission to the professional program is competitive; therefore, completion of the application does not guarantee admission to the program.

The application deadline date is January 15 of the year the student wishes to begin the professional year. All qualified applicants for diagnostic medical sonography and radiation therapy must participate in an interview, which is held in May. The radiation therapy program accepts students every other year (odd years).

### **COURSEWORK**

The curriculum for the Advanced Clinical/Health Management Concentration for the Associate Degree Radiographer prepares qualified radiographers for advanced

skills in 1) cardiovascular interventional technology, 2) computed tomography, and 3) magnetic resonance imaging technology. This concentration prepares radiographers for supervisory roles within the healthcare environment.

The Diagnostic Medical Sonography curriculum prepares the student to become skilled in the performance of medical ultrasound procedures. Courses include patient care, sonographic imaging, physics, and clinical experience.

The Radiation Therapy curriculum prepares the student to become skilled in the performance of radiation therapy procedures. Courses include patient care, radiation and clinical oncology, radiation physics, dosimetry, and clinical experience.

Prior to entering any of the three concentrations, students must complete courses in oral and written communication, arts and humanities, cultural and historical studies, social and behavioral science, psychology, computer science, college-level mathematics, statistics, and human anatomy and physiology. Prerequisites may be taken at any accredited college or university.

In addition, for the Advanced Clinical/Health Management Concentration for the Associate Degree Radiographer, 40 to 48 credit hours of professional radiography course work are required. For the Diagnostic Medical Sonography Concentration, three credit hours of general or radiologic physics and health professions course work or electives are required. For the Radiation Therapy Concentration, professional radiography course work or electives are required.

Upon completion of the program, graduates are eligible to take the national certification examinations within their specific clinical discipline.

### **PROGRAM HIGHLIGHTS**

Students have the unique opportunity to participate in the International Human Cadaver Prosection Program, a three-day hands-on anatomy workshop that allows non-physician

and non-medical student volunteers to become active participants in a medical lab by preparing the body donors for the fall gross anatomy class at the IU School of Medicine - Northwest. Acceptance into this program is competitive. In addition, radiologic sciences students may also have the opportunity to participate in the imaging of cadaver donors prior to prosection.

### **WHAT CAN I DO WITH A B.S. IN RADIOLOGIC SCIENCES?**

Radiographers with advanced clinical experience, diagnostic medical sonographers and radiation therapists find employment possibilities in various medical settings, such as hospitals and clinics, diagnostic outpatient centers, oncology centers, and physicians' offices. In addition, some seek employment in education, management or in marketing and sales.

### **HANDS-ON LEARNING**

Students are involved in providing direct patient care through clinical experience coursework. Clinical experience occurs in local hospitals, including: The Community Hospital in Munster; Franciscan St. Anthony Health in Crown Point; Franciscan St. Anthony Health in Michigan City; Franciscan St. James Health in Chicago Heights and Olympia Fields, Ill.; Franciscan St. Margaret Health in Hammond; Ingalls Hospital in Harvey, Ill.; IU Health LaPorte Hospital in LaPorte; Memorial Hospital in South Bend; Methodist Hospital of Gary, Inc., in Gary and Merrillville; Porter Hospital in Valparaiso; and St. Mary Medical Center in Hobart. Not all concentrations use every facility.

### **RELATED DEGREE OPTION**

A.S. in Radiography

### **FOR MORE INFORMATION**

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