RADIOLeGIC TECHNOLOGY

Office: 5142 EACPHS; 313-916-1348
Program Director: Sarah Borland
Chairperson: Malcolm Cutchin

The Bachelor of Science in diagnostic radiologic technology is a four-year degree program consisting of two years of preprofessional courses and two years of professional courses. The program complies with the professional curriculum of the American Society of Radiologic Technologists. Upon completion of the program, a student receives a Bachelor of Science Degree in Radiologic Technology and is eligible to take the national certifying examination administered by The American Registry of Radiologic Technologists.

BORLAND, SARAH B.: M.Ed., Wayne State University; B.S., University of Wisconsin; Clinical Assistant Professor and Program Director
KATH, KATHY: M.S., Walden University; B.A., Stephens College; Clinical Assistant Professor

• Radiologic Technology (B.S.) (http://bulletins.wayne.edu/undergraduate/college-pharmacy-health-sciences/radiologic-technology/radiologic-technology-bs)

RDT 3090 Directed Study Cr. 1
Independent study of medical terminology and related vocabulary. Instructor-directed online course. Offered Fall.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 3100 Introduction to Radiologic Technology Cr. 2
Introduction to radiology and hospital procedures. Role of radiographer as a member of the health care team. Offered Spring/Summer.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 3200 Radiation Biology and Advanced Protection Cr. 3
Radiation protection procedures; radiation interaction with matter and dosage problem solving. Offered Spring/Summer.
Prerequisite: RDT 3100
Corequisite: RDT 3400
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 3300 Radiographic Procedures I Cr. 3
Instruction and practical experience in procedures of positioning for the skeletal system with correlation to related anatomy in medical images. Offered Fall.
Prerequisite: RDT 3100 with a minimum grade of C- and RDT 3200 with a minimum grade of C- and RDT 3400 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 3400 Clinical Education I Cr. 1-6
Clinical course. Student participates in supervised practice of radiographic procedures, studied in conjunction with didactic coursework. Offered Spring/Summer.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $55
Repeatable for 6 Credits

RDT 3500 Patient Care Cr. 3
Practical application of patient handling; patient assessment, implication of medications and contrast media. BLS certification. Offered Winter.
Prerequisite: RDT 3600 with a minimum grade of C- and PHI 1110 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $35

RDT 3600 Clinical Education II Cr. 6
Application of didactic theory in practice on patients/clients under supervision of qualified technologists in a clinical setting. Offered Fall.
Prerequisite: RDT 3500 with a minimum grade of C- and PHI 1110 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $50

RDT 3700 Radiographic Procedures II Cr. 3
Continuation of RDT 3300. Additional advanced procedures, including skull, mammography, and gastrointestinal studies. Offered Winter.
Prerequisite: RDT 3900 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 3900 Cross-Sectional Anatomy Cr. 3
Presentation of anatomical structures in sectional format, as encountered in computed tomography or magnetic resonance imaging. Offered Spring/Summer.
Prerequisite: RDT 3700 with a minimum grade of C- and RDT 3900 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 3800 Clinical Education III Cr. 6
Minimally supervised clinical experience. Skills practice to proficiency level; additional complex skills. Offered Winter.
Prerequisite: RDT 3700 with a minimum grade of C- and RDT 3800 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4100 Radiographic Quality/Exposure Cr. 3
Practical application of technical exposure factor formulation; imaging systems and subsequent effects of equipment manipulation of images. Offered Fall.
Prerequisite: RDT 4200 with a minimum grade of C- and RDT 4300 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4200 Radiographic Quality/Exposure Cr. 3
Practical application of technical exposure factor formulation; imaging systems and subsequent effects of equipment manipulation of images. Offered Fall.
Prerequisite: RDT 4100 with a minimum grade of C- and RDT 4300 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4300 Radiographic Quality/Exposure Cr. 3
Practical application of technical exposure factor formulation; imaging systems and subsequent effects of equipment manipulation of images. Offered Fall.
Prerequisite: RDT 4100 with a minimum grade of C- and RDT 4300 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
RDT 4300 Clinical Education IV Cr. 6
Continuation of RDT 3900. Offered Spring/Summer.
Prerequisite: RDT 4100 with a minimum grade of C- and RDT 4200 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $30

RDT 4400 Radiographic Pathology Cr. 3
Disease process and how they manifest in imaging modalities. Clarification of modality preference. Offered Winter.
Prerequisite: RDT 4500 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4500 Clinical Education V Cr. 6
Supervised clinical experience in performing radiographic procedures on patients in clinical setting. Evaluation of outcomes; application of knowledge at a progressive level. Offered Fall.
Prerequisite: RDT 4400 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.
Course Material Fees: $75

RDT 4600 Radiology Seminar Cr. 1-3
Introduction to imaging modalities beyond the scope and practice of the general radiographer; emphasis on interventional procedures. Offered Winter.
Prerequisite: RDT 4700 with a minimum grade of C- and RDT 4800 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4700 Clinical Education VI Cr. 6
Continuation of RDT 4500. Offered Winter.
Prerequisite: RDT 4600 with a minimum grade of C- and RDT 4800 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4800 (WI) Independent Study Cr. 1
Independent research in radiology. Offered Fall.
Prerequisite: RDT 4600 with a minimum grade of C- and RDT 4700 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 4900 Jurisprudence for Radiographers Cr. 3
Ethical and legal case studies; research and discussion correlated to philosophical theory and accepted best law practice for general situations in health care and those specific to radiography. Offered Winter.
Prerequisite: PHI 2320 with a minimum grade of C-
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.

RDT 6500 Pharmacology Cr. 2
Effects of drug distribution, absorption and excretion as pertaining to physical therapy. Major drug categories, OTC, and nutritional supplements, pertinent to acute and chronic responses to physical therapy; indications, mechanisms, effects. Offered Fall.
Restriction(s): Enrollment limited to students in the Pharmacy and Health Sciences.