

# Radiologic Technology

## Radiologic Technology Program Outcomes

Student Learning Goals	Student Learning Outcomes
SLG 1: Demonstrate knowledge of basic concepts in the sciences related to Radiologic Technology	SLO 1: Students will identify and explain central concepts in anatomy, physiology, chemistry, and physics.
SLG 2: Possess effective verbal and written communication skills	SLO 1: Students will use effective oral communication SLO 2: Students will exhibit effective written communication skills
SLG 3: Be clinically competent entry level radiologic technologists	SLO 1: Students will apply positioning skills SLO 2: Students will be mindful of radiation skills and use radiation protection for patients, self, and others SLO 3: Students will demonstrate clinical competence in the workplace
SLG 4: Exhibit ethical and professional behaviors	SLO 1: Students will demonstrate professional and ethical behavior in the clinical setting

## Bachelor of Science with a Major in Radiologic Technology (124-126 cr.)

There are two options under the Bachelor of Science degree in Radiologic Technology. **Option I** is the **Radiologic Technology** Option while **Option II** is the **Diagnostic Sonography** Option. The primary difference is in the nature of the clinical experience (RAD 405). Once students have completed all of the necessary on-campus coursework they then enroll for clinical training (18 to 24 months) at an accredited school of radiologic technology or diagnostic sonography with which Minot State has an agreement. These schools are separate from the University, and admission to them is competitive. Admission to clinical training is the sole prerogative of the individual hospital-based clinical program. Admission to Minot State University does not guarantee acceptance into clinical training. Students pursuing the BS degree must enroll in RAD 405 Radiologic Technology Clinical as a full-time students at Minot State during the clinical training and pay full tuition and fees each semester. Students who require financial aid from Minot State University during the summer months of clinical training are allowed to register as full-time students. Students receive a minimum of 52 semester credits for clinical training.

RAD 405 Radiologic Technology Clinical carries the prerequisite of acceptance into the Radiologic Technology program. Students pursuing this program would, upon successful completion of the program (both the on-campus portion and the clinical portion), be granted a BS degree from Minot State. They would also be eligible to take the appropriate certification exam to become certified as a registered radiologic technologist/radiographer or diagnostic sonographer. MSU maintains, where feasible, tuition agreements with radiologic technology schools or diagnostic sonography schools for students pursuing the BS degree.

Transfer students are required to meet all of the MSU residency requirements, the General Education requirements, and to take a minimum of 12 credits of the required course work for the major at MSU. Credits from clinical study cannot be used to meet any of these requirements. No student who is already a registered radiologic technologist/radiographer may be accepted into RAD 405 Radiologic Technology Clinical.

### General Education

General Education courses 38

Radiologic Technology majors are required to take the following specific courses which may also be used to help satisfy the General Education requirements.

MATH 107	Precalculus
PHYS 211	College Physics I
PHYS 212	College Physics II
PSY 111	Introduction to Psychology
SOC 110	Introduction to Sociology

### Required Courses

BIOL 220	Anatomy and Physiology I	4
BIOL 221	Anatomy and Physiology II	4
CHEM 118	General, Organic, and Biological Chemistry	4
CIS 220	Managing Computer Information Systems	3
HMS 208	Medical Terminology	2
BIOL 202	Introductory Microbiology	4
HMS 215	Principles of Pharmacology	3
KIN 431	Kinesiology	3

MATH 210	Elementary Statistics	4
PHIL 210	Ethics	3
PSY 270	Psychological Disorders and Treatments	3
RAD 102	Introduction to Radiologic Technology	1
RAD 405	Radiologic Technology Clinical	1-15
<b>Clinical Experience</b>		
4 Semesters at 13 Credits per Semester		52
<b>Total Hours</b>		<b>129-143</b>