Radiologic Sciences

Radiologic Sciences Major

Radiographers, also known as radiologic technologists, perform diagnostic imaging examinations to assist physicians to diagnose or rule out disease or injury.

A Bachelor of Science degree, major in Radiologic Sciences (RS), includes two or more years of rigorous academic course work on campus and a two-year full-time professional level internship in an affiliated hospital-based school of radiologic technology that includes classroom and clinical education specific to diagnostic radiography. Graduates are eligible to write the national certifying examination administered by the American Registry of Radiologic Technologists (ARRT) to become a registered technologist in radiography, RT(R).

A strong science and math aptitude is important for RS majors to possess since academic course work includes chemistry, physics, anatomy and physiology, microbiology, trigonometry, and statistics, in addition to general education courses. The full-time two-year professional level internship (60 credits) consists of classroom and clinical instruction in patient care procedures, radiation physics and protection, principles of imaging, positioning, radiobiology, and pathology.

Students who have completed the prerequisite course work on campus and meet the GPA and grade requirements may be eligible to apply for the professional internship. Transfer students must complete a minimum of 20 resident credits at NDSU prior to the start of the professional program to be eligible to apply. NDSU has affiliation agreements with ten hospital-based schools of radiologic technology that are accredited by the Joint Review Committee for Education in Radiologic Technology (JRCERT). Admission into the internship is competitive. Specific admission criteria are established by each affiliated hospital program and generally includes completion of required courses, academic achievement, references, related experience, and an interview. In addition, students must comply with criminal background and conduct requirements.

During the professional internship, specific letter grades are assigned by the hospital program, maintained on their program's official transcript, and are not included in calculation of NDSU's grade point average. Official transcripts are available upon written request from the hospital program. An NDSU grade of 'Pass' is awarded for successful completion of each term of the internship.

Information about the profession, curriculum, internship, and advising contacts are available from the Department of Allied Sciences (https://www.ndsu.edu/alliedsciences).

Major Requirements

Radiologic Sciences Major

Degree Type: B.S.

Required Degree Credits to Graduate: 132

General Education Requirements

First Year Experience (F):

UNIV 189	Skills For Academic Success (Students transferring in 24 or more credits do not need to take UNIV 189)	1	
Communication (C):			
ENGL 110	College Composition I	3	
ENGL 120	College Composition II	3	
One Course of Upper Level Writing. Select one of the following:			
ENGL 320	Business and Professional Writing		
ENGL 321	Writing in the Technical Professions		
ENGL 322	Writing and the Creative Process		
ENGL 323	Creative Writing		
ENGL 324	Writing in the Sciences		
ENGL 325	Writing in the Health Professions		
ENGL 358	Writing in the Humanities and Social Sciences		
ENGL 459	Researching and Writing Grants and Proposal		
COMM 110	Fundamentals of Public Speaking	3	
Quantitative Reasoning (R):			
STAT 330	Introductory Statistics	3	
Science & Technology (S):			
BIOL 220 & 220L	Human Anatomy and Physiology I and Human Anatomy and Physiology I Laboratory	4	

CHEM 117 & 117L	Chemical Concepts and Applications and Chem Concepts and Applications Lab	4	
CSCI 114	Microcomputer Packages	3-4	
or CSCI 116	Business Use of Computers		
Humanities & Fine Arts (A): Selec	t from current general education list	6	
Social & Behavioral Sciences (B):			
PSYC 111	Introduction to Psychology	3	
Select from current general education	on list	3	
Wellness (W): Select from current general education list			
Cultural Diversity (D): Select from current general education list			
Global Perspectives (G): Select from current general education list			
Total Credits		41-42	
Major Requirements			
General Education Requirements		40	
Radiologic Science Major Require	ements		
RS 200	Introduction to Radiologic Sciences	1	
RS 496	Field Experience	60	
Professional education (internshi	p) within an accredited affiliated school of radiologic technology includes the capstone experience.		
Related Courses Required:			
BIOL 221	Human Anatomy and Physiology II	4	
& 221L	and Human Anatomy and Physiology II Laboratory		
CHEM 260	Elements of Biochemistry	3-4	
or BIOC 460	Foundations of Biochemistry and Molecular Biology I		
MATH 105	Trigonometry (or higher level)	3	
Select one microbiology course and lab from the following: 3-5			
MICR 202 & 202L	Introductory Microbiology and Introductory Microbiology Lab		
MICR 350 & 350L	General Microbiology and General Microbiology Lab		
PHRM 125	Medical Terminology for Health Professionals	1	
PHRM 170	Common Medicines & Diseases	2-3	
or PHRM 300	Principles of Clinical Pharmacology		
PHYS 211	College Physics I	4	
& 211L	and College Physics I Laboratory		
PHYS 212	College Physics II	4	
& 212L	and College Physics II Laboratory		
Special Major Electives (department approved)			
Sociology: Select one of the followin SOC 426		3	
SOC 440	Sociology of Medicine Sociology of Aging		
SOC 440	0, 0 0		
Communication: Select one of the fo	Death and Dying	3	
COMM 308 Business and Professional Speaking			
COMM 315	Small Group Communication		
COMM 380	Health Communication I		
COMM 381	Patient-Provider Communication		
COMM 383	Organizational Communication I		
COIVIIVI 303	Organizational Communication I		

Total Credits 132-136

Degree Requirements and Notes

- All required courses must be completed with a grade of 'C' or above. All students must maintain a semester GPA of 2.0 or above for each semester in the College. A student who fails to meet this standard for two successive or three non-successive semesters may be terminated from enrollment in the College.
- Completion of the prerequisites does not guarantee a student internship. Selection of interns is competitive. Please consult your Radiologic Sciences advisor for more information.