

College of Southern Idaho 22 Month Associate of Applied Science Degree Radiography Program 72 Semester Credits (Reviewed for 2022)

	Fall Semester (15 Weeks)		
ENGL 101	English Composition I	3	
ALLH 101	Medical Terminology	2	
BIOL 227 (or	Anatomy & Physiology I		
BIOL 22/ (01 BIOL 105)	(or Human Structure & Function)	4	
RADT 102	Orientation to Radiologic Technology	1	
RADT 102	Radiologic Science	3	
RADT 101 RADT 152	Radiation Protection	2	
Total		15	
Total		13	
Spring Semester (15 Weeks)			
COMM 101		3	
MATH 123,	Any General Education Math	3	
143, 147, 153,			
160, 170			
BIOL 228	Anatomy & Physiology II	4	
(or a 4 credit			
Gen. Ed. Core			
course if BIOL			
105 is taken)			
RADT 151	Radiographic Procedures I	4	
RADT 151L	Radiographic Procedures I Lab	1	
RADT 153	Image Analysis	1	
RADT 163	Imaging Equipment	2	
Total		18	
	Summon Comoston (9 wools)		
RADT 180	Summer Semester (8 weeks) Clinical Education I	1	
KADI 180	I CUNICAL FOUCATION I		
		7	
Total		7 7	
Total	Fall Semester (15 weeks)	7	
Total PSYC 101	Fall Semester (15 weeks) General Psychology or Intro to Sociology	7	
Total	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II	7	
Total PSYC 101 RADT 162 RADT 162L	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab	7	
Total PSYC 101 RADT 162	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II	7 3 4 1	
Total PSYC 101 RADT 162 RADT 162L RADT 164	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing	7 3 4 1 2	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II	7 3 4 1 2 8	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks)	7 3 4 1 2 8 18	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III	7 3 4 1 2 8 18 11	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182 RADT 185	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks)	7 3 4 1 2 8 8 18 11 3	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III	7 3 4 1 2 8 18 11	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182 RADT 185	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III Fundamentals of Computed Tomography	7 3 4 1 2 8 8 18 11 3	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182 RADT 182 RADT 165 Total	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III Fundamentals of Computed Tomography Summary (68 Weeks)	7 3 4 1 2 8 18 18 11 3 14	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182 RADT 182 RADT 165 Total General (Acad	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III Fundamentals of Computed Tomography Summary (68 Weeks) emic) Education	7 3 4 1 2 8 18 11 3 14 22 8 22	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182 RADT 182 RADT 165 Total General (Acad Didactic Educa	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III Fundamentals of Computed Tomography Summary (68 Weeks) emic) Education	7 3 4 1 2 8 8 18 18 11 3 14 22 22 24	
Total PSYC 101 RADT 162 RADT 162L RADT 164 RADT 181 Total RADT 182 RADT 182 RADT 165 Total General (Acad	Fall Semester (15 weeks) General Psychology or Intro to Sociology Radiographic Procedures II Radiographic Procedures II Lab Imaging & Processing Clinical Education II Spring Semester (15 weeks) Clinical Education III Fundamentals of Computed Tomography Summary (68 Weeks) emic) Education	7 3 4 1 2 8 18 11 3 14 22 22	

CSI Radiologic Technology AAS Degree Radiologic Technology Program Summary of Course Credits & Clock Hours

General Education	Credit	Clock Hours
English Composition I	3	45
Communication	3	45
Human Structure & Function	4	60 + 30 = 90
or Anatomy & Physiology I & II	(8)	(120 +60=180)
General Education Core Course	4	60
Any General Education Math (123, 143, 147, 153,	3	45
160, 170)		
General Psychology (or Sociology)	3	45
Medical Terminology	2	30
Total	22 (26)	360 (450)
Didactic Education		
Orientation to Radiologic Technology	1	15
Radiologic Science	3	45
Radiographic Procedures I	4	60
Radiographic Procedures I Lab	1	30
Radiographic Procedures II	4	60
Radiographic Procedures II Lab	1	30
Radiation Protection	2	30
Imaging Equipment	2	30
Imaging & Processing	2	30
Image Analysis	1	15
Fundamentals of Computed Tomography	3	45
Total	24	390
Clinical Education		
Clinical Education I	7	315
Clinical Education II	8	360
Clinical Education III	11	495
Total	26	1170
Grand Total	72 (76)	1920 (2010)

College of Southern Idaho Radiography Course Titles, Descriptions and Credits

Note: Not included are the Certificated Nursing Assistant or Emergency Medical Technician, Anatomy and Physiology or Human Structure and Function, and Medical Terminology courses which are taught by non-radiologic technology faculty.

RADT 101 3 Cr Hrs

Radiologic Science

A course designed to teach students how ionizing x-radiation is produced. Emphasis is on radiologic concepts, structure of matter, electromagnetic radiation, electricity, magnetism, electromagnetism, the x-ray imaging system, x-ray tube construction, x-ray production, x-ray emission spectrum, and x-ray interactions with matter. Prerequisite: Official admission into the Radiologic Technology Program.

RADT 102 1 Cr Hr

Orientation to Radiologic Technology

A course designed to teach students how to provide quality radiography patient care. Emphasis is on understanding the early days of radiography, the radiographer as a member of the health care team, legal and ethical responsibilities, professional communications, safety and transfer, positioning, patient care and assessment, and infection control. Prerequisite: Official admission into the Radiologic Technology Program.

RADT 151 4 Cr Hrs

Radiographic Procedures 1

A course designed to teach students radiographic anatomy and positioning that results in the production of diagnostic quality radiographs of the chest, abdomen, upper and lower limbs, humerus and shoulder girdle, femur and pelvic girdle, cervical, thoracic and lumbar spines, sacrum and coccyx, and sternum and ribs. Associated radiographic pathologies will be covered. Prerequisite: RADT 101, 102, 152

RADT 151L 1 Cr Hrs

Radiographic Procedures 1 Lab A laboratory course to accompany RADT 151 Radiographic Procedures 1. Prerequisite: RADT 101, 102, 152

RADT 152 2 Cr Hrs

Radiation Protection

A course designed to teach students how to protect themselves and others during radiographic procedures. Emphasis is on the biological effects of radiation, personnel and patient protection procedures, and radiation control. Prerequisite: Official admission into the Radiologic Technology Program.

RADT 153 1 Cr Hr

Image Analysis

A course designed to teach students how to evaluate the quality of digital diagnostic quality radiographs. Emphasis is on what causes poor image quality and how to improve it, proper radiographic exposure technique for digital imaging using the exposure index (EI), target exposure index (TEI), and deviation index (DI). Prerequisite: RADT 101, 102, 152

RADT 162 4 Cr Hrs

Radiographic Procedures 2

A course designed to teach students radiographic anatomy and positioning that results in the production of diagnostic quality radiographs of the cranial bones, facial bones and paranasal sinuses. Review of the biliary tract and upper gastrointestinal system, lower gastrointestinal system, urinary system, trauma, mobile, and surgical radiography, and pediatric radiography. Associated radiographic pathologies will be included. Prerequisite: RADT 151, 151L

RADT 162L 1 Cr Hrs

Radiographic Procedures 2 Lab A laboratory course to accompany RADT 162 Radiographic Procedures 2. Venipuncture didactic certification will be included. Prerequisite: RADT 151, 151L

RADT 163 2 Cr Hrs

Imaging Equipment

A course designed to teach students the operation and quality control maintenance of computed and digital radiography systems and digital image acquisition. Fluoroscopy, tomography, mobile imaging systems and calibration tools will be included. Prerequisite: RADT 101, 102, 152

RADT 164 2 Cr Hrs

Imaging & Processing

A course designed to teach students how diagnostic quality digital radiographic images are processed, communicated, archived and retrieved. Proper exposure technique selection, digital image processing to include histogram analysis, rescaling, gradation processing, and detail processing, and related quality control tests will be included. Prerequisite: RADT 101, 102, 151, 151L, 152, 153, 163, 180C

RADT 165 3 Cr Hrs

Fundamentals of Computed Tomography

A course designed to teach students how to perform computed tomography procedures on patients that results in diagnostic quality images. Topics include CT fundamentals, equipment instrumentation, data acquisition, image processing and reconstruction, patient safety, image quality, CT procedures, cross sectional anatomy of the head and neck, chest, abdomen and pelvis, additional applications, pharmacology and venipuncture. Venipuncture competency will be included. Prerequisites: RADT 180C Clinical Education 1, 181C Clinical Education 2 or currently an ARRT Registered Technologist in Radiography

RADT 170 3 Cr Hrs

Initial Training in Mammography

A post certification course designed to provide students the required hours of initial training in Mammography necessary to fulfill the requirements established by the Mammography Quality Standards Ace (MQSA). Students will learn breast anatomy and pathology, breast positioning, develop skills to produce high quality mammography images, and complete quality management tests. Hands on positioning will be provided.

RADT 180C 7 CR Hrs

Clinical Education 1

A course providing students in their third semester of radiography education the opportunity to practice and achieve competence in radiographic examination of the chest, abdomen, upper and lower limbs, humerus and shoulder girdle, femur and pelvis girdle, cervical, thoracic and lumbar spines, sacrum and coccyx, sternum and ribs, the biliary tract and upper gastrointestinal system, lower gastrointestinal system, urinary system, trauma, mobile, and surgical radiography, and pediatric radiography. Proper exposure technique selection to meet the target exposure index and deviation index and image analysis are reinforced. Use of the C-Arm Fluoroscope in surgery and clinic will be included. Initial instruction on the biliary tract and upper gastrointestinal system, lower gastrointestinal system, urinary system, trauma, mobile, and surgical radiography, and pediatric radiography, and pediatric radiography. Prerequisites: RADT 101, 102, 151, 151L, 152, 153, 163

RADT 181C 8 Cr Hrs

Clinical Education 2

A continuation of RADT 180C. The examination of the cranial bones, facial bones, and paranasal sinuses will be added. Prerequisite: RADT 101, 102, 151, 151L, 152, 153, 163, 180C

RADT 182C 11 Cr Hrs

Clinical Education 3 A continuation of RADT 181. Students in their last semester of clinical education practice and achieve competence in any remaining noninvasive and invasive radiographic examinations. Prerequisites: RADT 101, 102, 151, 151L, 152, 153, 162, 162L, 163, 164, 180C, 181C