

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

Fall Semester (15 Weeks)

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

**General Education** 

Credit

**Clock Hours** 

## 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

### 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 radiog

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. Protect 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