Health Sciences

Associate of Science in Radiologic Sciences

Student Learning Outcomes

The Radiologic Sciences program graduate will be able to:

- demonstrate clinical competency.
- position patients for diagnostic quality images.
- integrate ALARA practices for self, patients, and others.
- evaluate the final radiology image for essential criteria.
- communicate effectively.
- manipulate techniques to accommodate patient's condition.
- demonstrate critical thinking skills.
- describe professional avenues available to them.
- discuss ASRT, JRCERT, licensure, and different modalities.
- exhibit professionalism in the clinical setting.
- demonstrate professional interaction with patients.

The above student learner outcomes are measured throughout the program.

The Mission of the Great Basin College Associate of Science in Radiologic Sciences program is to continually provide a high quality, accessible, and affordable undergraduate radiography program that will graduate competent entry-level radiographers for the local and national healthcare community. Furthermore, graduates will acquire problem solving, communication and critical thinking skills through a program that focuses on patient care, professionalism, and ethical conduct, enhancing the healthcare experience of the patients and communities they serve.

Great Basin College offers a two-year, five-semester program, to include the summer semester.
Associate of Science in Radiologic Sciences program is accredited by the JRCERT (Joint Review Committee on Education in Radiology Technology) and recognized by the American Registry of Radiology Technology (ARRT).

JRCERT
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-2850

Phone: 312.704.5300
Fax: 312.704.5304
Email: mail@jrcert.org
Website: www.jrcert.org

The curriculum integrates courses in radiology sciences with general education requirements. Clinical experiences are offered at affiliated hospitals throughout Nevada. To obtain the degree, the student will complete five sequential semesters of courses.

Enrollment in the program is limited. Selection is made using a point system. Points are given for completed courses, grades, and current work experience in the health-care field. Year of admission to the Associate of Science in Radiologic Sciences program determines the catalog year and course requirements.

Students who have not completed the English and mathematics requirements must complete the English/mathematics placement test. There is no charge for the placement test, and it must be taken prior to enrolling in prerequisite courses. Placement tests are available at the Academic Success Center. For more information, call 775-327-2247. Students must place into English 101 at the start of the program if not already completed.

Students must obtain a C (76%) or higher grade in each class used toward the AS, including general education classes. Students are financially responsible for housing and travel expenses for clinical rotations located throughout Nevada. All students must rotate at a minimum of two separate sites. At least one of these will likely be outside of the student's city of residence. Clinical placement will be equitable for all students. GBC uses clinical sites that are more than 60 miles from GBC Elko and GBC Pahrump campuses.

A certified nursing assistant (CNA) class is a prerequisite for the program. It is not required to take the CNA course for credit or sit for the licensing board exam. The student must submit documentation of completion of the course during the application process.

Admission Process
Admission to the AS in Radiologic Sciences program is a separate process from admission to Great Basin College and enrollment to the program is limited. Special application and admission requirements exist for radiologic sciences. Please see the application guide on the GBC website at: https://www.gbcnv.edu/programs/health_sciences/aas_rad/index.html

The application and selection criteria worksheet are available on the website. Students who have applied for, and been accepted into the radiology program are designated radiology technology students. Only radiology technology students can enroll in courses with the RAD designation (with the exception of RAD 101) unless previously approved by radiology technology instructor.

Application Process
Apply for admission by completing the application for admission and providing supporting documentation, as listed in the application guide, available on the GBC Radiology website. Applications are online and must be submitted, fully completed by April 1 for the fall semester. If the application is late, it may not be accepted. Applications will be accessed at: https://www.gbcnv.edu/programs/health_sciences/aas_rad/index.html

College courses will be evaluated by the admissions and records office for transfer and acceptance. The application and transcripts will be reviewed by the radiologic sciences program director and the admissions and progressions committee.

Radiologic Sciences graduates are eligible to apply to take the registry with American Registry of Radiologic Technologists (ARRT). It is the student's responsibility to schedule and cover costs associated with the ARRT exam. Students must declare any previous felony or misdemeanor convictions and academic sanctions to the ARRT. Students who have previous convictions and wish to apply to the program are encouraged to contact the ARRT at 651.687.0048 to establish testing eligibility status.

Some states require additional licensures and testing beyond ARRT credentialing. Specific state licensing requirements can be found at: https://www.arrt.org/about-the-profession/state-licensing.

Additional Fees
Radiology students follow the fee schedule and refund policy described on pages 63-66. In addition to tuition there are other costs specific to the Radiology program. These fees are subject to change. A differential fee is an additional fee for students enrolled in all AS Radiology courses. Students in this program will also have a distance education fee that applies to IAV, online and hybrid classes. An approximation of the additional expenses include:

Textbooks $1,500.00
Uniforms, shoes, equipment $300.00
Complio Tracking (required for clinical rotations) $110.00-120.00
Differential Fees per credit $70.00
Physical Examination ..... Individual amount
Immunizations ..... Individual amount
Travel and living expenses at clinical sites: ..... Individual amount
ARRT Board Application $200.00

Scholarships and financial aid opportunities are available to all eligible GBC students. Please contact the student financial services office for more details.

Prerequisite Requirements			Credits
BIOL	223	Human Anatomy and Physiology I	4
MATH	126	Precalculus I	3
RAD	101	Exploration of Radiology (online)	0.5
NURS	130	Nursing Assistant Class	6
BIOL	224	Human Anatomy and Physiology II	4

Must be able to place into ENG 101 if accepted into the program.

Note: Some of the above courses meet both prerequisite and general education requirements.

For additional information or advisement, please contact the health science and human services department at 775-237-2317

Program Requirements
All Radiology courses are Internet Enhanced or Online

General Education

Communications and Expressions

Written Communications 3
ENG 100, ENG 101

Oral Communication.....3
COM 113, THTR 102, THTR 221

Evidence Based Communications 3
ENG 102

Fine Arts 3
ART 100, ART 101, ART 107, ENG 205, MUS 101
THTR 100, THTR 105, THTR 204

Logical and Scientific Reasoning

Mathematical Reasoning 3
MATH 126, 126E or higher, or STAT 152

Scientific Reasoning.....4
BIOL 223

Scientific Data Interpretation.....4
BIOL 190

Human Societies and Experience

Structure of Societies – HMS 200 (required) 3

American Constitutions and Institutions 3
HIST 101/102 (must take both) or
PSC 101

Humanities – PHIL 102 (recommended 3
ART 160, ART 260, ART 261, ENG 203, ENG 223,
FIS 100, FREN 111, FREN 112, HIST 105, HIST 106,
HIST 208, HIST 209, HUM 101, HUM 111, HUM 210
MUS 121, MUS 125, PHIL 102, PHIL 129, SPAN 111,
SPAN 112, SPAN 211

Technological Proficiency

Technology requirement is met with Radiology Technology program requirement.

Foundations

Mathematics .....min 2-4
Any MATH 127 or higher, or STAT 152
(Minimum 5 total credits mathematics)

Sciences.....4
BIOL 224

Program Requirements

Patient Care/Medical Terminology.....2
RAD 112

Exploration of Radiology.....0.5
RAD 101

Radiography I.....3
RAD 116

Radiology Physics and Circuitry.....3
RAD 118

Radiographic Photography and Techniques.....3
RAD 124

Radiology Procedures II.....3
RAD 126

Imaging Equipment.....3
RAD 128

Clinical Radiology I.....5
RAD 225

Clinical Radiology II.....10
RAD 226

Clinical Radiology III..... 10
RAD 227

Radiation Safety and Protection.....2
RAD 238

Medical Imaging Pathology (online).....3
RAD 243

Culmination of Radiography Topics.....1
RAD 240

Total Program Credits: 48.5

Total AS Degree Credits: 86.5

SUGGESTED COURSE SEQUENCE
(Refer to page 87)
AS—Radiology Technology

FALL—1st Semester		Credits
ENG	100 or 101	3
RAD	112	2
RAD	116	3
RAD	118	3
RAD	238	2
TOTAL		**13**

SPRING—2nd Semester		Credits
ENG	102	3
HMS	200	3
RAD	124	3
RAD	126	3
RAD	128	3
PSC	101	3
TOTAL		**18**

Summer—3rd Semester		Credits
RAD	225	5
TOTAL		**5**

FALL—4th Semester		Credits
RAD	226	10
RAD	243	3
Fine ARTS		3
TOTAL		**16**

SPRING—5th Semester		Credits
PHIL	102 OR HUMANITIES	3
RAD	227	10
RAD	240	1
TOTAL		**14**

Minimum Credits: 66

***Choose with an advisor**