

ACADEMIC PROGRAM PROPOSAL FORM

(Revised: January 2021)

DIRECTIONS: Use this form when proposing a new major or primary field of study, new emphasis (BAS only), or new degree or certificate (30+credits) program. <u>For more detail on the NSHE program</u> approval process, see the last page of this form.

DATE SUBMITTED: 11/9/23

INSTITUTION: Truckee Meadows Community College

REQUEST TYPE:

New Degree
 New Major or Primary Field of Study
 New Emphasis (BAS only)

DEGREE: Check applicable box

Certificate: 30+ Credits
 Associate of Science (AS)
 Associate of Applied Science (AAS)
 Bachelor of Arts (BA)
 Master of Science (MS)
 Doctor of Philosophy (Ph.D.)

Associate of Arts (AA)
 AA/AS
 Bachelor of Applied Science (BAS)
 Bachelor of Science (BS)
 Master of Arts (MA)
 Other or Named Degree:

MAJOR OR PRIMARY FIELD OF STUDY (i.e. Animal Science): Radiologic Technology

INCLUDED IN THE NSHE PLANNING REPORT: Yes No (Website for NSHE Planning Reports: <u>https://nshe.nevada.edu/administration/academic-student-affairs/reporting/planning/</u>

TOTAL NUMBER OF CREDITS TO PROGRAM COMPLETION: 120

PROPOSED SEMESTER/TERM OF IMPLEMENTATION: Fall 2024

Action requested (specify full program title):

Bachelor of Applied Science Radiologic Technology

A. Brief description and purpose of proposed program. For proposed certificates (30+ credits), provide any existing degree or program under which the certificate falls.

The Bachelor of Applied Science degree in Radiologic Technology will provide graduates with the knowledge and skills necessary to be a successful imaging leader and an active member of the healthcare team. The program recognizes the educational and professional experiences that

Date of AAC Approval: 11-29-23

Date of Board Approval:

registered imaging professionals possess and builds upon an already solid foundation. The curriculum emphasizes evidence-based practice, quality healthcare improvement, regulatory systems, patient safety, and equity. The Bachelor of Applied Science Radiologic Technology can be completed in 12 months and all courses are distance education offered in 8-week blocks. The program requires all potential students to have an associate degree in imaging from a regionally accredited institution and be registered with the American Registry of Radiologic Technologists (ARRT). The distance education format allows imaging professionals to pursue learning opportunities while working full time in our local community. This program will be the only online distance education Bachelor of Applied Science Radiologic Technology in the NSHE system.

B. Provide a list and description of institutionally approved expected student learning outcomes

Program Student Learning Outcomes

1. Analyze the advancement of the imaging profession including leadership and lifelong learning.

2. Compare research findings from imaging and other healthcare disciplines to address community health concerns and examine evidence-based practice.

3. Identify principles of leadership, management, and continuous quality improvement to promote patient safety and equity across diverse populations.

4. Evaluate information management, innovative technology, and systems to ensure continuous quality improvement.

5. Examine principles of imaging to improve equitable health outcomes for individuals, families, groups, and communities.

6. Exhibit effective inter-professional communication and collaboration to provide quality, ethical, holistic patient care.

7. Integrate leadership skills and knowledge of the healthcare, financial, and regulatory systems to advance professional practice.

C. Provide an institutionally approved plan for assessing student learning outcomes

Assessment of the BAS radiologic technology degree will be completed using guidelines established by the TMCC Assessment & Planning Office. The program will be assessed using the Program/Unit Review process and annual internal program review.

The data gathered will be shared with the faculty and incorporated into the program assessment process for evaluation and relevance to students, business and industry, and the community. The assessment data will be shared with the advisory board, faculty, department chair and dean on an annual basis. Input from students, graduates, and employers gained through survey will be utilized to modify the program content and structure to ensure the degree remains relevant to the community.

D. Contribution and relationship of program objectives to

i. NSHE Master Plan / Strategic Goals

a. Access – Increase participation in postsecondary education

The BAS will serve students and the community by providing access to higher level education through a path that does not currently exist or was unattainable by traditional means. Utilizing the distance education platform for course delivery, this degree will provide a BAS that builds on their existing career and degree. The proposed TMCC BAS Radiologic Technology is a low-cost option that entry level students can afford.

The BAS Radiologic Technology degree will provide opportunities to serve historically underrepresented populations. Currently the AAS Rad Tech program is serving an equivalent percentage of LatinX students and greater percentages of first-generation and Pell-eligible students compared to the college. The bachelor's program will continue to serve these underrepresented populations.

b. Success – Increase student success

The BAS radiologic technology degree will create opportunity for student career growth. The TMCC BAS allows students who work full time in our local community to successfully keep employment and pursue higher education without sacrificing for a traditionally delivered BAS degree.

c. Close the Achievement Gap – Close the achievement gap among underserved populations Students who delayed college until they could afford to attend will be served by this program. Students can remain employed as they complete this degree thus affording the opportunity to students who support themselves and others, the ability to complete a bachelor's degree while maintaining life commitments. The inclusive curriculum is welcoming and supportive of students from a variety of socio-economic, culturally, physically, and educationally diverse backgrounds. Students can stay in the area, enter the local workforce, and not have to leave their family or other obligations to earn a relevant bachelor's degree. Students are not priced out of the education market because the only available avenue is a private for-profit institution with extremely high fees.

d. Workforce – Collaboratively address the challenges of the workforce and industry education needs of Nevada

The national bureau of labor statistics lists Nevada as one of the highest paying states for radiologic technology with a 6% national job rate growth.

The Healthcare Careers Manual (UNR) states that there are currently 1,330 radiologic technologists in the state of Nevada. There were 980 job listings in 2021 and radiologic technologists are considered to be in high demand. The average state salary is \$71,840, with a wage of \$35 per hour.

Per DETR there are 121 annual job openings and a projected job growth of 1502 technologists which is a 17 % increase from the current 1274 radiologic technologists.

e. Research – Co-develop solutions to the critical issues facing 21st century Nevada and raise the overall research profile

This program is not designed for research.

ii. Institutional mission and core themes

TMCC's mission is "Create a future you will love with accessible, innovative educational opportunities at TMCC. Together we can make it happen." The proposed BAS Radiologic Technology is one of these innovative educational opportunities that is being developed after recognizing trends in workforce needs and which can lead to a high-paying career in an in-demand field.

iii. Campus strategic plan and/or academic master plan

The BAS Radiologic Technology aligns to several objectives in the institutional strategic plan, including "Improving successful completion of students' educational goals," and "Develop innovative programs that respond to the dynamic needs of industry and the community."

iv. Other programs in the institution

The proposed program will be the only online BAS Radiologic Technology distance education program in the NSHE system. This program will build on the current TMCC AAS degree program.

v. Other related programs in the System

The proposed program will provide a low-cost bachelors level opportunity to TMCC and GBC radiologic technology AAS graduates.

vi. If the program was not included in the NSHE Planning Report, please explain why. $\rm N/A$

E. Evaluation of need for the program

i. The need for the program and the data that provides evidence of that need The radiologic technology workforce will need to grow by 6% to keep up with community demand. This is on par with national job growth. Radiologic Technologists are needed in hospitals, outpatient clinics, urgent cares, surgery centers, medical sales, orthopedic specialties, higher education and state regulatory agencies.

ii. Student population to be served

Existing associate-level radiologic technologists.

iii. Procedures used in arriving at the decision to offer the program

The proposed program was discussed with the TMCC AAS Radiologic Technology program advisory board. The board advised the program that a BAS could potentially strengthen the current workforce and leadership. A graduate with a BAS in Radiologic Technology will potentially make a higher wage or advance their career and professional development.

iv. Organizational arrangements required within the institution to accommodate the program No additional organizational arrangements will be required to accommodate the BAS Radiologic Technology program. It will reside in the existing Radiologic Technology department under the current director and academic division.

v. The timetable, with dates, for implementation steps

Approved by TMCC's Curriculum Review Committee: 8/25/23 Approved by TMCC's Faculty Senate: 9/15/23 Anticipated AAC approval: 11/30/23 Anticipated Board of Regents Approval: 2/29/24 – 3/1/24 quarterly meeting Anticipated NWCCU Approval: Spring 2024 Implementation: Fall 2024

vi. If this or a similar program already exists within the System, what is the justification for this addition? Please describe the nature and extent of the consultation with other institutions that have similar programs.

If accepted, this will be the only online distance education Bachelor of Applied Science Radiologic Technology program in the NSHE system. The program benefits not only TMCC graduates but also gives graduates of GBC's AAS radiologic technology program an opportunity for low cost and equitable higher-level education. In addition to Nevada imaging professionals this online low-cost opportunity is available to students across the country.

vii. Evidence of employment opportunities for graduates (state and national). Include information on institutional review of the need for the program based on data from the Nevada P-20 Workforce Research Data System and/or any other applicable sources.

Per the US Bureau of Labor Statistics for the State of Nevada

Nevada is one of the top paying states for Radiologic Technologists. The growth rate is 6% and on par with the national average.

National estimates for Radiologic Technologists and Technicians:

Employment estimate and mean wage estimates for Radiologic Technologists and Technicians:

Employment <u>(1)</u>	Employment RSE <u>(3)</u>	Mean hourly wage	Mean annual wage <u>(2)</u>	Wage RSE <u>(3)</u>
215,820	0.7 %	\$ 33.77	\$ 70,240	0.4 %

Percentile wage estimates for Radiologic Technologists and Technicians:

Percentile	10%	25%	50% (Median)	75%	90%
Hourly Wage	\$ 22.96	\$ 27.57	\$ 31.32	\$ 38.49	\$ 47.09
Annual Wage <u>(2)</u>	\$ 47,760	\$ 57,350	\$ 65,140	\$ 80,050	\$ 97,940

Industry profile for Radiologic Technologists and Technicians:

Industries with the highest levels of employment in Radiologic Technologists and Technicians:

Industry	Employment (1)	Percent of industry employment	Hourly mean wage	Annual mean wage <u>(2)</u>
General Medical and Surgical Hospitals	125,430	2.24	\$ 34.26	\$ 71,260
Offices of Physicians	40,390	1.45	\$ 29.91	\$ 62,220
Medical and Diagnostic Laboratories	16,060	5.05	\$ 33.88	\$ 70,460
Outpatient Care Centers	15,050	1.47	\$ 39.20	\$ 81,530
Federal Executive Branch (OEWS Designation)	5,980	0.29	\$ 37.58	\$ 78,160

Industries with the highest concentration of employment in Radiologic Technologists and Technicians:

Industry	Employment (<u>1)</u>	Percent of industry employment	Hourly mean wage	Annual mean wage <u>(2)</u>
Medical and Diagnostic Laboratories	16,060	5.05	\$ 33.88	\$ 70,460
General Medical and Surgical Hospitals	125,430	2.24	\$ 34.26	\$ 71,260
Outpatient Care Centers	15,050	1.47	\$ 39.20	\$ 81,530
Offices of Physicians	40,390	1.45	\$ 29.91	\$ 62,220
Specialty (except Psychiatric and Substance Abuse) Hospitals	2,040	0.75	\$ 37.21	\$ 77,400

Top paying industries for Radiologic Technologists and Technicians:

Industry	Employment <u>(1)</u>	Percent of industry employment	Hourly mean wage	Annual mean wage <u>(2)</u>
Scientific Research and Development Services	140	0.02	\$ 42.64	\$ 88,690
Outpatient Care Centers	15,050	1.47	\$ 39.20	\$ 81,530
Professional and Commercial Equipment and Supplies Merchant Wholesalers	<u>(8)</u>	<u>(8)</u>	\$ 38.41	\$ 79,890
Management of Companies and Enterprises	460	0.02	\$ 37.98	\$ 79,000
Federal Executive Branch (OEWS Designation)	5,980	0.29	\$ 37.58	\$ 78,160

F. Detailed curriculum proposal

i. Representative course of study by year (options, courses to be used with/without modification; new courses to be developed)

Prerequisites for acceptance into Radiologic Technology ProgramBIOL 190A& BIOL 190L Introduction to Cell and Molecular Biologyand Introduction to Cell and Molecular Biology Laboratory 4 unitsBIOL 223BIOL 224Human Anatomy and Physiology I 4 unitsBIOL 224Human Anatomy and Physiology II 4 unitsENG 101 Composition I 3 unitsor ENG 100 Composition Enhancedor ENG 113 Composition I for International and Multilingual StudentsMATH 120 Fundamentals of College Mathematics 3 unitsRAD 101Exploration of Radiology0.5-1 unitsTotal Units 19

1st Semester

HIT 180 Health Information Management 3 units RAD 103 Medical Ethics 1 unit RAD 110 Fundamentals of Clinical Radiography I 2 units RAD 112 Patient Care and Medical Terminology 2 units RAD 116 Radiography I 3 units RAD 118 Radiology Physics and Circuitry 3 units Total Units 14

2nd Semester

RAD 124 Radiographic Photography and Techniques 3 units RAD 125 Clinical Radiography I 2 units RAD 126 Radiography II 3 units RAD 128 Imaging Equipment 3 units U.S. and Nevada Constitutions 3 units Total Units 14

<u>3rd Semester</u> <u>RAD 220Clinical Radiography II 3 units</u> *Total Units 3*

<u>4th Semester</u>
Communications/English *3 units*RAD 230 Clinical Radiography III *3 units*RAD 236 Radiographic Contrast-Routine Exams *2 units*RAD 238 Radiation Safety and Protection *2 units*RAD 244 Diagnostic and Therapeutic Radiation *2 units*RAD 247 Radiography Quality Control *1 unit Total Units 13*

<u>5th Semester</u> Fine Arts/Humanities/Social Science *3 units* Human Relations 3 units RAD 242 Radiography Quality Management 1 unit RAD 245 Clinical Radiography IV 3 units <u>RAD 259 Seminar in Radiography</u> 2 units Total Units 12

6th Semester

RAD 430 Research Methods and Information Literacy 3 units* RAD 310 Advanced Communication 3 units* RAD 312 Radiologic Technology Advanced Patient Care 3 units* RAD 314 Health Care Delivery, Ethics and Medical Law in Radiology 3 units* Elective or ENG 102/114 3 units** Total Units 15

7th Semester

RAD 320 Health Care Informatics 3 units* RAD 322 Leadership and Team Building 3 units* RAD 324 Educational Principles for Technologists 3 units* RAD 412 Diversity and Cultural Competence 3 units* <u>Elective or ENG 102/114 3 units**</u> *Total Units 15*

8th Semester RAD 414 Health Care Compliance and Accreditation 3 units* RAD 410 Advanced Quality Management 3 units* RAD 330 Forensic Radiology 3 units* RAD 416 AI in Radiology 3 Units* Elective or ENG 102/114 3 units** Total Units 15

* Indicates a new course that will need to be developed. Proposed course descriptions are provided in the appendix.

** Indicates a transferable elective or required ENG 102/114 if needed. Proposed electives: COM 101, COM 113, CHS 101, DATA 101, MGT 171, MGT 201, PHIL 101, PHIL 102, READ 135, SOC 101, WMST 101. Choose 2 of the above or 2 transferable courses- see advisor.

ii. Program entrance requirements

Admission to the BAS radiologic technology program is a separate process from admission to Truckee Meadows Community College. In order to be considered for admission, all students must meet the requirements for formal admission to Truckee Meadows Community College. Official associate degree program transcripts must be submitted.

All students applying for the BAS program must meet the following minimum criteria:

1. An active ARRT or equivalent registry when coursework begins.

2. Graduated with an Associate Degree in Radiologic Technology from a regionally accredited program.

iii. Program completion requirements (credit hours, grade point average; subject matter distribution, preprogram requirements)

- 1. Maintain a minimum cumulative GPA of 2.0
- 2. Satisfy General Education requirements for Bachelor's degrees.

- 3. Complete 120 units in total.
 - 30 units must be completed at TMCC.
 - A minimum of 30 upper-division units.
- 4. Have no financial or library obligation to the college.
- iv. Accreditation consideration (organization (if any) which accredits program, requirements for accreditation, plan for attaining accreditation include costs and time frame)

This program does not require an external specialized accreditation in addition to TMCC's accreditation by Northwest Commission on Colleges and Universities upon approval.

- v. <u>For certificates only:</u> Name of any state, national and/or industry recognized certification(s) or licensing examination(s) for which certificate prepares the student, if applicable N/A
- G. Method of Delivery (for the purpose of state authorization [NC-SARA])
 - i. How will this academic program be delivered when the program begins? (mark all that apply)
 - **100% face-to-face courses**
 - Hybrid (some online courses, some face-to-face courses)
 - 100% online courses
 - ii. Learning Placements

Does the academic program have learning placements (e.g. internships, externships, clinical placements, student teaching, etc.) that *may take place outside the state of Nevada?*

☐ Yes ⊠ No.

H. Institutional Review Process

- i. Date of Faculty Review (may include additional information, as needed) The proposal was reviewed on 08-25-23 by TMCC's Curriculum Review Committee and on 9-15-23 by the Faculty Senate.
- ii. Describe the process for review and approval by the appropriate academic policy body of the institution

Proposals are reviewed and approved by the Curriculum Review Committee and then as consent agenda items by the Faculty Senate.

I. Readiness to begin program

i. List the educational and professional qualifications of the faculty relative to their individual teaching assignments

ii.

The TMCC AAS Radiologic Technology program has existing faculty to teach the proposed BAS. All faculty have a master's level education and are registered radiologic technologists

(ARRT), most with additional credentialing such as certified medical dosimetry (CMD), magnetic resonance imaging (MRI), and computed tomography (CT). The certified medical dosimetrist is employed by Carson-Tahoe Cancer Center and graduated from the TMCC Rad Tech program in 2002. He has been an adjunct instructor for TMCC since 2012. In 2019 he received the Outstanding Achievement Award from the American Association of Medical Dosimetrists (AAMD). This high honor recognized his many accomplishments from professional and volunteer services.

Additional faculty graduated from the TMCC Radiologic technology program in 2006, Boise State University in 2020 with a bachelor's degree in Imaging Sciences and recently a master's degree in Learning Technology. She worked for a specialty clinic for 13 years as a Lead X-ray Tech and was cross trained into MRI. She started at TMCC as an adjunct clinical instructor in 2018 and is now full-time faculty and clinical coordinator.

Additional faculty graduated from the TMCC Radiology program in 2006 and worked locally in the community until 2018. She has a B.S. in Business and Healthcare Management and an M.S. in Educational Curriculum and Design. She has worked in education for 10+ years and has taught almost every course in the x-ray program. In 2020 she successfully completed ACUE training in effective college instruction, she is the current Vice President of the Nevada Society of Radiologic Technologists and is the TMCC Lambda Nu Honor Society student advisor.

Additional faculty graduated from the TMCC Radiologic Technology program in 2005 and went on to earn a bachelor's degree in radiologic science from Advent Health University in 2017. Additionally, she holds a master's degree in educational leadership from Northern Arizona University and is currently pursuing a doctoral degree at the University of North Dakota, focusing her research on health equity in radiology. With extensive experience in various healthcare settings, including trauma hospitals, orthopedic clinics, outpatient imaging clinics, and tribal facilities. She obtained cross-training in MRI in 2017.

- iii. List the anticipated sources or plans to secure qualified faculty and staff The AAS program currently has a pool of qualified instructors to instruct for the BAS but may need any additional FT instructor in the future.
- iv. Contribution of new program to department's existing programs (both graduate and undergraduate) and contribution to existing programs throughout the college or university The BAS Radiologic Technology is an opportunity for the AAS Radiologic Technology graduate to further their education. The BAS will allow community imaging professionals to increase wages and work in hospital leadership, radiologic technology education or medical sales. The BAS opens opportunities not available to students with an entry level AAS degree.
- v. Recommendations from prior program review and/or accreditation review teams $N\!/\!A$

J. Resource Analysis

- i. Proposed source of funds (enrollment-generated state funds, reallocation of existing funds, grants, other state funds) The source of funding is state funds.
- ii. Each new program approved must be reviewed for adequate full-time equivalent (FTE) to support the program in the fifth year. Indicate if enrollments represent 1) students

formally admitted to the program, 2) declared majors in the program, or 3) course enrollments in the program.

a. (1) Full-time equivalent (FTE) enrollment in the Fall semester of the first, third, and fifth year.

1st Fall semester <u>6</u>

3rd Fall semester <u>10</u>

5th Fall semester 15

- (2) Explain the methodology/assumptions used in determining projected FTE figures. Students in the program will take 15 credits in the first 16-weeks of the program: Headcount x 15 credits/15. The FTE factor (denominator) of 15 for undergraduate students is used.
- b. (1) Unduplicated headcount in the Fall semester of the first, third, and fifth year.

1st Fall semester <u>6</u>

3rd Fall semester <u>10</u>

5th Fall semester 15

(2) Explain the methodology/assumptions used in determining projected headcount figures.

The TMCC AAS radiology program surveyed current and graduate students. The survey responses were used to project enrollment. A survey of 150 current Northern Nevada Imaging Technologists showed community interest and need. The TMCC AAS program advisory board has advocated for an online BAS to allow Northern Nevada working professionals to further their education and allow for current and future leadership to be better prepared to care for our local growing community.

iii. Budget Projections – Complete and attach the Five-Year Program Cost Estimate and Resource Requirements Table.

See the Five-Year Cost Estimate

K. Facilities and equipment required

- i. Existing facilities: type of space required, number of assignable square feet, space utilization assumptions, special requirements, modifications, effect on present programs N/A
- ii. Additional facilities required: number of assignable square feet, description of space required, special requirements, time sequence assumed for securing required space N/A
- iii. Existing and additional equipment required N/A

L. Describe the adequacy and availability of library and information resources

TMCC's Sturm Library within the Learning Commons houses over 50 electronic databases, journals, reference collections, and videos in addition to desktop computers, printers, scanners, photocopiers, and laptops for checkout. The Learning Commons offers in-person research assistance for both students and faculty, study areas, and tutoring. A reference section of required program textbooks will be avaiable to students at the TMCC's Sturm Library.

M. Student services

i. Describe the capacity of student support services to accommodate the program. Include a description of admissions, financial aid, advising, library, tutoring, and others specific to the program proposal

The program will use existing services which already support the Radiologic Technology programs. Representatives from financial aid and academic advising serve on TMCC's Curriculum Review Committee and have indicated support for this program in their approval.

ii. Describe the implications of the program for services to the rest of the student body There will be no additional impact of the program for services to the rest of the student body.

- N. Consultant Reports If a consultant was hired to assist in the development of the program, please complete subsections A through C. A copy of the consultant's final report must be on record at the requesting institution.
 - i. Names, qualifications and affiliations of consultant(s) used N/A
 - ii. Consultant's summary comments and recommendations $N\!/\!A$
 - iii. Summary of proposer's response to consultants $N\!/\!A$

O. Articulation Agreements

- i. Articulation agreements were successfully completed with the following NSHE institutions. (Attach copies of agreements) Great Basin College, Western Nevada College
- ii. Articulation agreements have not yet been established with the following NSHE institutions. (Indicate status) N/A
- iii. Articulation agreements are not applicable for the following institutions. (Indicate reasons) Articulation agreements are not applicable for UNR, UNLV, NSU, and CSN because these institutions do not offer an associate degree in Radiologic Technology to qualify students as an associate-level radiologic technologist. Due to the geographical proximity, we have developed an agreement with WNC to complete both TMCC's AAS and BAS in Radiologic Technology.

P. Summary Statement

The Bachelor of Applied Science degree in Radiologic Technology will provide graduates with the knowledge and skills necessary to be a successful imaging leader and an active member of the healthcare team. The program recognizes the educational and professional experiences that registered imaging professionals possess and builds upon an already solid foundation. The curriculum emphasizes evidence-based practice, quality healthcare improvement, regulatory systems, patient safety, and equity. The Bachelor of Applied Science Radiologic Technology can be completed in 12 months and all courses are distance education offered in 8-week blocks. The distance education format allows imaging professionals to pursue learning opportunities while working full time in our local community. The program will allow continued access to underserved populations that the AAS radiologic technology program already serves. The BAS degree is a low-cost alternative to private institutions that price gouge students and lead to high student debt. This degree allows students to keep full time employment and supports local economic and national growth. This program will be the only online distance education Bachelor of Applied Science Radiologic Technology in the NSHE system.

Enter N/A if the information is not applicable to the program proposal

Program Resource Requirements. Indicate all resources needed including the planned FTE enrollment, projected revenues, and estimated expenditures for the first, third and fifth fiscal years of the program. Include reallocation of existing personnel and resources and anticipated or requested new resources. Third and fifth year estimates should be in dollars adjusted for inflation. If the program is contract related, explain the fiscal sources and the year-to-year commitment from the contracting agency(ies) or party(ies). Note: This form reflects the NWCCU's Substantive Change Budget Worksheet as of 8/28/17.

ruckee Meadows Community College			BAS in Radiologic Technology			
PLANNED STUDENT ENROLLMENT						
Note : Enrollment numbers (A + B) for each fiscal	FY 1:	2025	FY 3:	2027	FY 5:	2029
year should match the FTE/Headcount numbers in the Academic Program Proposal Form (Sect. I.ii.).	FTE	Headcount	FTE	Headcount	FTE	Headcount
A. New enrollments to the Institution	6	6	10	10	15	15
B. Enrollments from Existing Programs						
REVENUE						
	FY 1:	2025	FY 3:	2027	FY 5:	2029
	On-going	One-time	On-going	One-time	On-going	One-time
1. New Appropriated Funding Request	\$0	\$0	\$0	\$0	\$0	\$0
2. Institution Funds	-\$671	\$2,000	-\$11,623	\$11,623		\$1,000
3. Federal (e.g. grant, appropriation)	\$0	\$0	\$0	\$0	\$0	\$0
4. New Tuition Revenues (registaration fee) from Increased Enrollments*	\$34,785	\$0	\$57,975	\$0	\$85,963	\$0
5. Other Student Fees (associated with the program)*	\$0	\$0	\$0	\$0	\$0	\$0
6. Other (i.e., Gifts)	\$0	\$0	\$0	\$0	\$0	\$0
Total Revenue	\$34,114	\$2,000	\$46,352	\$11,623	\$85,963	\$1,000
<u>Note</u> : Total Revenue (Section I) should match Total Expenditures (Section III)						

1

1.1

Enter N/A if the information is not applicable to the program proposal

	FY 1	2025	FY 3:	2027	FY 5:	FY
	On-going	One-time	On-going	One-time	On-going	One-time
A. Personnel Costs						
1. FTE (Total FTE for all personnel types)	3.3	0	3.45	0	3.95	
Faculty	0	0	0	0	0.5	
Adjunct Faculty	3.3	0	3.3	0	3.3	
Grad Assts	0	0	0	0	0	
Research Personnel	0	0	0	0	0	
Directors/Administrators	0	0	0.15	0	0.15	
Administrative Support Personnel	0	0	0	0	0	
Other:						
	Expenditur	es for personne	el type below i	must reflect FTE	Elevels in Secti	on A.1.
2. Faculty					\$30,031	
3. Adjunct Faculty	\$31,920		\$31,920		\$31,920	
4. Graduate Assistants						
5. Research Personnel						
6. Directors/Administrators						
7. Administrative Support Personnel			\$8,704		\$8,704	
8. Fringe Benefits	\$894		\$4,428		\$14,008	
9. Other:						
Total Personnel Costs	\$32,814	\$0	\$45,052	\$0	\$84,663	\$

(ACADEMIC, RESEARCH AND STUDENT AFFAIRS COMMITTEE 02/29/24) Ref. ARSA-5, Page 15 of 27

Enter N/A if the information is not applicable to the program proposal

	FY 1:	2025	FY 3:	2027	FY 5:	2029
B. Operating Expenditures	On-going	One-time	On-going	One-time	On-going	One-time
1. Travel	\$0	\$0	\$0	\$0	\$0	\$(
2. Professional Services	\$0	\$0	\$0	\$0	\$0	\$(
3. Other Services	\$0	\$0	\$0	\$0	\$0	\$(
4. Communications	\$0	\$0	\$0	\$0	\$0	\$(
5. Materials and Supplies	\$500	\$0	\$500	\$0	\$500	\$(
6. Rentals	\$0	\$0	\$0	\$0	\$0	\$(
7. Marketing materials and Advertising	\$0	\$2,000	\$0	\$11,623	\$0	\$1,000
8. Miscellaneous	\$300	\$0	\$300	\$0	\$300	\$0
Total Operating Expenditures	\$800	\$2,000	\$800	\$11,623	\$800	\$1,000

Enter N/A if the information is not applicable to the program proposal

	FY 1:	2025	FY 3:	2027	FY 5:	2029
	On-going	One-time	On-going	One-time	On-going	One-time
C. Capital Outlay						
1. Library Resources	\$500	\$0	\$500	\$0	\$500	\$0
2. Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Outlay	\$500	\$0	\$500	\$0	\$500	\$0
TOTAL EXPENDITURES (IIIA + IIIB + IIIC):	\$34,114	\$2,000	\$46,352	\$11,623	\$85,963	\$1,000
<u>Note</u> : Total Expenditures (Section IIIA-C total) should match Total Revenue (Section I)						

Budget Notes (optional):

Revenue

30 Rad Tech BAS upper division credits multiplied by \$193.25 per credit x student head count

Expenses

3.33 Adjunct Faculty Instructors for 30 credits per year at \$1064 per credit and 2.8% fringe Materials for promotion One time costs of year 1 \$2000, year 3 \$11,623 and year 5 \$1000

Small library collection \$500 per year

Year 1 \$1329 Institutional Support

0.15 FTE Administrative support starting year 3, Admin Salary based off of \$58, 025

0.5 FTE FT Salary based off of Bachelor's Minimum \$57, 823 + 3%

August 11, 2023

To Whom it may concern,

In more recent years, the Radiology Community has been pushing for stricter legal standards, a tightly structured continuing education model, and advanced education requirements for employment. With the current growth and changes in medical imaging, I strongly believe that Truckee Meadows Community College and our community would benefit greatly from a Bachelor of Applied Science in Radiology program.

The ARRT, the ASRT, and ACR continue to lobby for state and federal laws requiring technologists to be registered in order to use radiation producing equipment. There are currently six states where a license is not required. In 2019, the state of Nevada began mandating that technologists must have both a technical and a state license.

As licensed technologists, we are required to continue our structured education by fulfilling 24 CEU requirements every two years. In 2012, the ARRT added an additional test licensed technologists are required to take every 10 years. This is to evaluate if technologists are maintaining their knowledge and skills required for their modalities, and help guide them in any areas they may be lacking in.

Radiology has always tried to parallel nursing; it is only a natural progression as we work closely with them in our day-to-day jobs. Radiology and nursing often grow and change together. As regulations or policies change, they often affect both areas. The major area where Radiology has been lacking is in our structured education. While 56% of all nurses hold a bachelors degree, only 17% of Radiology technologists hold one.

It is with these areas in mind I know TMCC, our technologist, and our community would benefit from a bachelor's program. With this program our technologist will be able to better hone their skills and knowledge to successfully transition into imaging leaders and active members of a healthcare team.

If you need any additional information, please contact me at RanBjerke@gmail.com

Sincerely,

Randall Bjerke

Medical Imaging Manager of NNMC and TMCC Advisory Board President

1912

Transfer Agreement





Prerequisites and General Education at WNC + TMCC's AAS Radiologic Technology

Bachelor's Degree Program: BAS Radiologic Technology

NOTE: This transfer agreement has been created specifically for the programs listed above and only applies to students that complete the associate degree listed. If the associate degree is not earned, or a new program is selected, the transfer and articulation of listed courses, as well as fulfilled degree requirements, could be impacted.

Important Information: This agreement is based on any Associate of Applied Science degree offered at GBC. Credit variations may occur based on the number of units required for each Associate of Applied Science degree.

Specific General Education Courses Required: ENG 102 (Communications), Human Relations, Fine Arts/Humanities/Social Science that also satisfies TMCC Diversity.

These courses should be completed during the associate program. NOTE: Lower-division General Education requirements are fulfilled upon completion of the associate degree, with the exception of the courses listed above. If a General Education subject is not listed here, you may select any general education course approved for the associate degree program.

Specific Prerequisite Courses Required: BIOL 190, BIOL 223, BIOL 224, ENG 101, MATH 120 or higher. Students must earn the AAS Radiologic Technology before applying to the BAS Radiologic Technology. See special admission requirements

These courses will articulate to specific program requirements for the bachelor's program. Courses marked with an asterisk (*) are critical prerequisite or bachelor's program progression courses that will impact a student's progress to completing the bachelor's degree in a timely manner if they are not taken during the associate degree program.

Articulations/Block Transfer: N/A

These courses are approved articulations/substitutions/block transfer for the above-mentioned programs and will transfer accordingly and apply to the bachelor's program as listed.

Special Admission Requirements: Admission to the BAS radiologic technology program is a separate process from admission to Truckee Meadows Community College. In order to be considered for admission, all students must meet the requirements for formal admission to Truckee Meadows Community College.

Official associate degree program transcripts must be submitted.

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/ WNC Counseling Services 775-445-3267 Carson City Campus, Bristlecone Building, Room 103 <u>counseling@wnc.edu</u>

All students applying for the BAS program must meet the following minimum criteria:

1. An active ARRT or equivalent registry when coursework begins.

Prerequisite Courses

2. Graduated with an Associate Degree in Radiologic Technology from a regionally accredited program.

Year-to-Year Course Outline

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Total Credits: 18.5-19

Course	Prerequisite(s)/Notes	Credits
ENG 100 or 101		3
BIOL 190		4
BIOL 223	BIOL 190	4
BIOL 224	BIOL 223	4
MATH 120		3
RAD 101*	Taken online at TMCC	0.5-1

Taken online at TMCC

WNC

General Education Courses (May also be taken at TMCC)

Total Credits:

Course	Prerequisite(s)/Notes	Credits
U.S. & NV Constitutions		
Human Relations		
ENG 102		
Fine Arts/Humanities/Social Science		
TMCC Diversity		

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/

WNC Counseling Services 775-445-3267 Carson City Campus, Bristlecone Building, Room 103 <u>counseling@wnc.edu</u>

TMCC AAS 1st Semester (Fall) Radiologic Tech.

Course	Prerequisite(s)	Credits
HIT 180		3
RAD 103		1
RAD 110		2
RAD 112		2
RAD 116		3
RAD 118		3

TMCC AAS	2nd Semester (Spring)
Radiologic Tech.	

Total	Credits:	18

Course	Prerequisite(s)	Credits
U.S. & NV Constitutions	Note: Take as part of AAS at TMCC if not taken at WNC	0-3
RAD 124		3
RAD 125		3
RAD 126		3
RAD 128		3

TMCC AAS	3rd Semester (Summer)
Radiologic Tech.	

Total Credits: 3

Total Credits: 10-13

Course	Prerequisite(s)	Credits
RAD 220		3

TMCC AAS 4th Semester (Fall) Radiologic Tech.

Course	Prerequisite(s)/Notes	Credits

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/

WNC Counseling Services 775-445-3267 Carson City Campus, Bristlecone Building, Room 103 <u>counseling@wnc.edu</u>

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Total Credits: 14

ENG 102	Note: Take as part of AAS at TMCC if not taken at WNC	0-3
RAD 230		3
RAD 236		2
RAD 238		2
RAD 244		2
RAD 247		1

TMCC AAS Radiologic Tech. 5th Semester (Fall)

Total Credits: 6-12

Course	Prerequisite(s)/Notes	Credits
Fine Arts/Humanities/Social Sciences/Diversity	Note: Take as part of AAS at TMCC if not taken at WNC. Courses that double dip as diversity: ANTH 201, ANTH/SOC 205, ANTH 208, ART 261, ART 263, ART 265, ART 268, ART 270, DAN 101, ENG 231, ENG 232, ENG 267, GEOG 200, HIST 208, HIST 209, PHIL 210, PHIL 245, THTR 210, WMST 101	0-3
Human Relations	Note: Take as part of AAS at TMCC if not taken at WNC.	0-3
RAD 242		1
RAD 245		3
RAD 259		2

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6th Semester (Fall: 8-week classes)

Total Credits: 15

Total Credits: 15

Credits

Course	Prerequisite(s)/Notes	Credits
RAD 430	Admission to BAS Radiologic Technology Program	3
RAD 310	Admission to BAS Radiologic Technology Program	3
RAD 312	Admission to BAS Radiologic Technology Program	3
RAD 314	Admission to BAS Radiologic Technology Program	3
Elective or ENG 102 (if needed)	Note: Take if not taken as part of AAS. Will not be an 8-week class.	3

TMCC

7th Semester (Spring: 8-week classes)

Course Prerequisite(s)/Notes

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/ WNC Counseling Services 775-445-3267 Carson City Campus, Bristlecone Building, Room 103 <u>counseling@wnc.edu</u>

RAD 320	Admission to BAS Radiologic Technology Program	3
RAD 322	Admission to BAS Radiologic Technology Program	3
RAD 324	Admission to BAS Radiologic Technology Program	3
RAD 412	Admission to BAS Radiologic Technology Program	3
Elective or ENG 102 (if needed)	Note: Take if not taken as part of AAS. Will not be an 8-week class.	3

TMCC

8th Semester (Summer: 8-week classes)

Total Credits: 15

Course	Prerequisite(s)/Notes	Credits
RAD 414	Admission to BAS Radiologic Technology Program	3
RAD 410	Admission to BAS Radiologic Technology Program	3
RAD 330	Admission to BAS Radiologic Technology Program	3
RAD 416	Admission to BAS Radiologic Technology Program	3
Elective or ENG 102 (if needed)	Note: Take if not taken as part of AAS. Will not be an 8-week class.	3

BAS Radiologic Technology Degree Total: 120 Credits

Transfer Agreement



AS Radiologic Sciences



Bachelor's Degree Program: BAS, Radiologic Technology

NOTE: This transfer agreement has been created specifically for the programs listed above and only applies to students that complete the associate degree listed. If the associate degree is not earned, or a new program is selected, the transfer and articulation of listed courses, as well as fulfilled degree requirements, could be impacted.

Important Information: This agreement is based on any Associate of Applied Science degree offered at GBC. Credit variations may occur based on the number of units required for each Associate of Applied Science degree.

Specific General Education Courses Required: ENG 102

These courses should be completed during the associate program. NOTE: Lower-division General Education requirements are fulfilled upon completion of the associate degree, with the exception of the courses listed above. If a General Education subject is not listed here, you may select any general education course approved for the associate degree program.

Specific Program Courses Required: N/A. See Special Admission Requirements

These courses will articulate to specific program requirements for the bachelor's program. Courses marked with an asterisk (*) are critical prerequisite or bachelor's program progression courses that will impact a student's progress to completing the bachelor's degree in a timely manner if they are not taken during the associate degree program.

Articulations/Block Transfer: N/A

These courses are approved articulations/substitutions/block transfer for the above-mentioned programs and will transfer accordingly and apply to the bachelor's program as listed.

Special Admission Requirements: Admission to the BAS radiologic technology program is a separate process from admission to Truckee Meadows Community College. In order to be considered for admission, all students must meet the requirements for formal admission to Truckee Meadows Community College.

Official associate degree program transcripts must be submitted.

All students applying for the BAS program must meet the following minimum criteria:

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/ GBC Admission Advising & Career Center 775-327-2068 Berg Hall, Elko <u>gbcnv.edu/career/</u>

1. An active ARRT or equivalent registry when coursework begins.

2. Graduated with an Associate Degree in Radiologic Technology from a regionally accredited program.

Year-to-Year Course Outline

GBC	1st Semester (Fall)	Total Credits: 13	
Course	Prerequisite(s)	Credits	
ENG 100 or 101		3	
RAD 112	-	2	
RAD 116		3	
RAD 118		3	
RAD 238		2	

GBC

2nd Semester (Spring)

Total Credits: 18

Course	Prerequisite(s)	Credits
ENG 102		3
HMS 200		3
RAD 124		3
RAD 126		3
RAD 128		3
PSC 101		3

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3rd Semester (Summer)

Total Credits: 5

Course	Prerequisite(s)	Credits
RAD 225		5

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/

GBC Admission Advising & Career Center 775-327-2068 Berg Hall, Elko <u>gbcnv.edu/career/</u>

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GBC

4th Semester (Fall)

Total Credits: 16

Course	Prerequisite(s)	Credits
RAD 226		10
RAD 243		3
Fine Arts		3

GBC

5th Semester (Fall)

Total Credits: 14

Course	Prerequisite(s)	Credits
Humanities	Note: PHIL 102 can be used as a transferable elective option	3
RAD 227		10
Fine Arts		3

Degree Total: 66 Credits Transfer-in Credit Total (including prerequisites for AS Radiologic Sciences): 75 Credits

TMCC

6th Semester (Fall: 8-week classes)

Total Credits: 15

Course	Prerequisite(s)/Notes	Credits
RAD 430	Admission to BAS Radiologic Technology Program	3
RAD 310	Admission to BAS Radiologic Technology Program	3
RAD 312	Admission to BAS Radiologic Technology Program	3
RAD 314	Admission to BAS Radiologic Technology Program	3
TMCC Diversity	Note: Will not be an 8-week class	3

TMCC

7th Semester (Spring: 8-week classes)

Total Credits: 12-15

Course	Prerequisite(s)/Notes	Credits
RAD 320	Admission to BAS Radiologic Technology Program	3
RAD 322	Admission to BAS Radiologic Technology Program	3
RAD 324	Admission to BAS Radiologic Technology Program	3

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/

GBC Admission Advising & Career Center 775-327-2068 Berg Hall, Elko <u>gbcnv.edu/career/</u>

RAD 412	Admission to BAS Radiologic Technology Program	3
Elective (if needed)	Note: Will not be an 8-week class	0-3

TMCC

8th Semester (Summer: 8-week classes)

Total Credits: 12-15

Course	Prerequisite(s)/Notes	Credits
RAD 414	Admission to BAS Radiologic Technology Program	3
RAD 410	Admission to BAS Radiologic Technology Program	3
RAD 330	Admission to BAS Radiologic Technology Program	3
RAD 416	Admission to BAS Radiologic Technology Program	3
Elective (if needed)	Note: Will not be an 8-week class	0-3

TMCC Academic Advisement 775-673-7062 RDMT 111, Dandini Campus tmcc.edu/advisement/ GBC Admission Advising & Career Center 775-327-2068 Berg Hall, Elko <u>gbcnv.edu/career/</u>

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