



Curriculum Review Committee

Curriculum Manager
email: curriculum@gbcnv.edu

Reactivate a Program Form

SECTION 1: SUBMITTER INFORMATION

Name of Submitter: Reme Huttman Phone Number: 775-327-2319
 E-mail Address: reme.huttman@gbcnv.edu Submission Date: 10/12/22
 Department: HSHS GBC Center: Elko Building & Room #: HSHS134

SECTION 2: REACTIVATE A PROGRAM

The program will be reactivated effective this term: Fall 2022

Program Title to be reactivated: Diagnostic Medical Sonography Post-Associate Certificate

Catalog Page: Required: Attach a sample of the program page from the current catalog.

Briefly explain why program is being reactivated:
Program should have been re-activated when courses were reactivated in August 2018. All the courses were submitted and approved but the program was not submitted. This program currently has students because the program should have been reactivated at the same time as the courses.

SECTION 3: APPROVALS

Submitter

Department Chair

Name: Reme Huttman Name: _____
 Signature: Reme Huttman Digitally signed by Reme Huttman Date: 2022.10.12.16:16:14-0700 Signature: _____
 Date: _____ Date: _____

This form will not be accepted without the above signatures.

Curriculum Review Chair

Curriculum Manager

Name: Dorothy Callander Name: Deanna Hamilton
 Signature: Dorothy Callander Digitally signed by Dorothy Callander Date: 2022.10.13.12:19:43 -4700 Signature: Deanna Hamilton
 Date: _____ Date: 10/17/22

Dean

Vice President of Student and Academic Affairs

Name: Andy Dault Name: Jake Rivera
 Signature: _____ Signature: _____
 Date: 10-17-2022 Date: 10/18/22



ACADEMIC PROGRAM PROPOSAL FORM

(Revised: March 2022)

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. For more detail on the NSHE program approval process, see the last page of this form.

DATE SUBMITTED: 10/15/2022

Date of AAC Approval:

INSTITUTION: Great Basin College

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

Date of Board Approval:

DEGREE: Check applicable box

- | | |
|--------------------------------------------------------------|------------------------------------------------------------|
| <input checked="" type="checkbox"/> Certificate: 30+ Credits | <input type="checkbox"/> Associate of Arts (AA) |
| <input type="checkbox"/> Associate of Science (AS) | <input type="checkbox"/> AA/AS |
| <input type="checkbox"/> Associate of Applied Science (AAS) | <input type="checkbox"/> Bachelor of Applied Science (BAS) |
| <input type="checkbox"/> Bachelor of Arts (BA) | <input type="checkbox"/> Bachelor of Science (BS) |
| <input type="checkbox"/> Master of Science (MS) | <input type="checkbox"/> Master of Arts (MA) |
| <input type="checkbox"/> Doctor of Philosophy (Ph.D.) | <input type="checkbox"/> Other or Named Degree: _____ |

MAJOR OR PRIMARY FIELD OF STUDY (i.e. Animal Science): Diagnostic Medical Sonography Post -Associate Certificate

INCLUDED IN THE NSHE PLANNING REPORT: Yes No

(Website for NSHE Planning Reports: <https://nshe.nevada.edu/administration/academic-student-affairs/reporting/planning/>)

TOTAL NUMBER OF CREDITS TO PROGRAM COMPLETION: 55-56

PROPOSED SEMESTER/TERM OF IMPLEMENTATION: Spring 2023

Action requested (specify full program title):

Great Basin College (GBC) requests the approval from the NSHE Academic Affairs Council (AAC), for a Diagnostic Medical Sonography Post-Associate Certificate.

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 proposed Post-Associate Certificate in Diagnostic Medical Sonography will prepare students who already possess a degree in a patient-care centered field, or a bachelor level degree, to become

registered in general Diagnostic Medical Sonography and fulfill the ever-growing workforce needs in this field in Nevada.

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

- Program outcomes are based on the expected learner outcomes outlined by The Commission on Accreditation of Allied Health Education Programs (CAAHEP) for Diagnostic Medical Sonography and recommended by The Joint Review Commission on Diagnostic Medical Sonography (JRC-DMS).

The diagnostic medical sonography graduate will be able to:

- provide basic patient care and comfort to all patients.
- employ professional judgement and communication.
- demonstrate competence in the use of acoustic physics principles, Doppler ultrasound principles, and ultrasound instrumentation through proper equipment operation and transducer selection.
- evaluate the interaction between ultrasound and tissue and the probability of biological effects in clinical examinations.
- produce and assess ultrasonographic images of normal and abnormal anatomy and physiology.
- identify, document, and develop differential diagnosis of abnormal sonographic and Doppler patterns.

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

Student learning outcomes have been carefully developed by The Commission on Accreditation of Allied Health Education Programs (CAAHEP) for Diagnostic Medical Sonography and recommended by The Joint Review Commission on Diagnostic Medical Sonography (JRC-DMS).

- The program consists of s program outcomes listed above, which will be evaluated on a biannual basis by the emphasis specific advisory board consisting of faculty, students, and community stakeholders.
- Course outcomes will be assessed in specific evidence-based activities, written papers, written and hands-on laboratory assessments, clinical evaluations, competencies, and assessments as outlined in each course syllabus. Rubrics will be employed as evaluation tools on all applicable assignments.
- Course outcomes and assessment effectiveness will be reviewed in course reports at the conclusion of every semester and at a maximum of every three years in curriculum assessment activities.
- Program outcomes will be assessed by the advisory board consisting of faculty, students, and community stakeholders annually.
- Surveys to students, former students and employers of successful graduates will be evaluated yearly to ensure outcome achievement and student satisfaction. Credentialing achievement rates, as well as employment rates and retention will also be tracked and reported on an annual basis.

D. Contribution and relationship of program objectives to

i. NSHE Master Plan / Strategic Goals

a. Access – *Increase participation in postsecondary education*

This program contributes to the following specific goals of the NSHE Master Plan.

GBC's Diagnostic Medical Sonography Certificate will promote advancement of education throughout Nevada to improve availability of qualified workforce candidates.

This will contribute to increasing job participation and earning power of graduates, while addressing workforce needs.

Working closely with the healthcare industry this new certificate will provide Nevadans with additional career options. The Diagnostic Medical Sonography job outlook is projected to grow 10 percent from 2021 to 2031, faster than the average of other occupations, with over 14,000 job openings projected each year. Physicians are increasingly utilizing medical imaging to ensure accuracy of diagnosis and treatment. Quality of Diagnostic Medical Sonography exams is highly dependant on the skill level and performance of the operator. To ensure appropriate patient care, it is essential this allied health area employs highly qualified candidates. In recent years, due to the shortage of qualified candidates, employers have turned to cross training sonographers, leading to limitations in the quality of examinations and patient care. This program will be an important step in addressing these issues.

- Nationally, rural populations are less likely to attend college than urban populations. GBC is uniquely situated to address these circumstances and needs of this population of students within Nevada. GBC has contact and support services for students who live in remote areas and who cannot be supported as effectively at other institutions of higher education. Innovative approaches to delivery and clinical partnerships throughout Nevada, allow unprecedented access to this program for perspective students throughout the state.

b. Success – *Increase student success*

The Diagnostic Medical Sonography Program is an addition to other health science programs that have been very successful at GBC thanks to the support and partnerships with community hospitals and other health care agencies that make student clinical completion much more likely. Small class sizes, individualized attention and advising, multiple instructional delivery options and access to financial support are some of the many ways this program increases probability of student success. In addition, smaller cohorts allow for a more focused support implementation of retention methods that support student success.

Institutional data identifies academic areas with bottleneck courses, enrollment issues, and identifies student successes roadblocks. College wide tools such as the Starfish alert system develops practices for early advisor intervention when student challenges are recognized. Mandatory advisement, as well as faculty advising helps prepare students academically and personally for the program in advance. In addition, tutoring, counseling and other support services are available to students to promote retention and success. The program will utilize strict remediation practices including academic and behavioral modification plans to address student challenges early and effectively. Thorough student orientation will introduce students to expectations and will provide students with resources and contacts to be successful.

c. Close the Achievement Gap – *Close the achievement gap among underserved populations*

Great Basin College is an open-door college, which creates an opening to opportunity no one is excluded from the chance to succeed in college.

Great Basin College recognizes that different students need different guidance and support to reach their full potential. GBC has established a career arc for closing the achievement gap beginning with recruitment and extending through mentoring services. In addition, entry-level advisement, program specific faculty advisement, academic success tutoring services,

financial aid guidance and strong employer partnerships often resulting in graduate employment, help promote success of all students.

Great Basin College participates in the Title IV federal student aid programs. Every effort is made at to assist student in accessing financial support to include the Pell Grant, Supplemental Education Opportunity Grant, Access Grant, GBC Need Grant, grant-in-aid, Silver State Opportunity Grant, Regents Service Program, Millennium Scholarship, Nevada Promise, and dual-enrollment opportunities. In addition, the Diagnostic Medical Sonography programs have procured Helmsley grant funding to provide tuition assistance to a minimum of 4 students per year and is a recognized Nevada Workforce program that opens the door to students seeking additional support though non-profit entities such as JOIN.

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

- The Diagnostic Medical Sonography (DMS) program has worked closely with community stakeholders in our service area and throughout Nevada to identify workforce needs and work toward addressing these needs efficiently and effectively.
- The DMS program has fully utilized the existing GBC technology infrastructure including, online learning management systems, interactive video, satellite sites and more, to expand access to students in various geographic areas. The geographically diverse student population has provided employers more local graduates to fill positions. Employers have reported a higher retention rate of employees when hiring locally and note the positive effects of longevity of employment.
- GBC has numerous affiliation agreements currently in place that support other health science programs at GBC. These agreements extend throughout the GBC’s expansive area and provide a variety of rich clinical experiences that often lead to employment opportunities.
- The increase and focus on workforce development meet community needs in rural remote locations experiencing high levels of growth. As economics expand and diversify, health care remains an area of consistent growth. Health care workers and resources are in shortage and of primary concern on a national level. This type of certificate would provide a highly skilled workforce that is required throughout Nevada.

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

N/A

ii. Institutional mission and core themes

The Great Basin College Mission Statement:

Great Basin College enriches people’s lives by providing student-centered, post-secondary education to rural Nevada. Educational, cultural, and related economic needs of the multicounty service area are met through programs of university transfer, applied science and technology, business and industry partnerships, developmental education, community service, and student support services in conjunction with certificate and associate and select baccalaureate degrees.

Core Theme 1: Provide Student Enrichment

- To ensure student **enrichment**, the DMS program provides students with knowledge, skills and behavioral training. These areas of learning are combined with extensive clinical experience. As students grow in these competencies, they will experience pride in work, community and service

to others. In addition, extensive time and training increases a student's confidence and often feelings of worth. Content in areas of ethics, patient care, diversity, leadership, teamwork and more, result in a well-rounded education, enriching the student personal and professional experience.

- This program will prepare students for a career as sonographers and allow for more lucrative job opportunities in numerous health care settings that require skilled patient care. These graduates will impact the health care system not only enriching their own lives as a sonographer, but impact communities in Nevada that are at a significant disadvantage for professionals in this field.

Core Theme 2: Building Bridges and Creating Partnerships

- The Diagnostic Medical Sonography Certificate Program was developed as a result of an expressed need by faculty, students, and stakeholders. It will not only address students desires and needs, but fulfill needs of the workforce, employers and community health.
- The DMS program has offered GBC the opportunity to develop and enrich relationships between the college, program and healthcare/imaging facilities throughout Nevada in ways never expected. The mutual support, respect and goals shared by GBC and numerous healthcare/imaging facilities has allowed for program expansion and growth while addressing employer needs.

Core Theme 3: Serving Rural Nevada

- The Diagnostic Medical Sonography program is based on the Elko campus, with satellite or off campus labs in Pahrump, Fallon and Renown. While our primary focus is in developing the workforce in rural Nevada, these extensive partnerships have allowed the program to rally more extensive support and offer additional clinical opportunities not offered with some rural partners.
- Live student support services are available at Winnemucca, Elko, and Pahrump campuses.

iii. Campus strategic plan and/or academic master plan

This certificate program was not on the Academic Master Plan however an but has been discussed since 2019 however has not had an opportunity for funding until this year.

iv. Other programs in the institution

This certificate program offers additional opportunities to graduates of GBC's other patient care programs, including: radiology, nursing and paramedic programs. In addition, it provides a more streamline, faster track for completion of the Bachelor of Science in Comprehensive Medical Imaging with Emphasis in Diagnostic Medical Sonography. Once qualified students complete the certificate, they will be encouraged to continue on through completion of the BS degree.

v. Other related programs in the System

CSN and UNLV both offer Diagnostic Medical Sonography programs, but due to the limited cohort size, the need for additional workforce, especially in Northern Nevada still exists.

vi. If the program was not included in the NSHE Planning Report, please explain why.

Not applicable

E. Evaluation of need for the program

i. The need for the program and the data that provides evidence of that need

Diagnostic medical sonography is a multi-specialty profession that utilizes ultrasound as a diagnostic tool to assist in diagnosis of patient disease processes. The diagnostic medical sonographer must be educationally prepared and clinically competent as a prerequisite to professional practice. Demonstration and maintenance of competency through certification by a nationally recognized sonography credentialing organization is the standard of practice in sonography. The diagnostic medical sonographer functions as a delegated agent of the physician. (Commission on Accreditation of Allied Health Education Programs, 2022).

According to the Bureau of Labor and Statistics (BLS), the Diagnostic Medical Sonography job outlook is projected to grow 10 percent from 2021 to 2031, faster than the average of all other occupations with over 14,000 job openings projected each year (Bureau of Labor Statistics, 2022). The growth of the aging population will continue to increase demands on our healthcare system. In addition, physicians and other medical practitioners are becoming more reliant on medical imaging to assist in diagnosis and treatment. Between 2010 and 2020 the number of medical imaging exams ordered has nearly doubled (National Library of Medicine, 2021). If this trend continues, the need for skilled sonographers may exceed that currently predicted by the BLS.

Diagnostic Medical Sonography is a highly user dependent imaging modality. When performed well it can provide sensitive and specific medical information. When performed poorly, it can result in missed or delayed diagnosis. Recent patterns of employment in rural Nevada suggest that due to the shortage of well-trained, highly skilled and credentialed sonographers, many imaging sites have turned to cross training employees to perform these highly specialized exams, leading to limitations on exam effectiveness.

While there are two other programs within the Nevada System of Higher Education (NSHE), these programs are located in Las Vegas (CSN and UNLV), which provides a hardship to rural and northern Nevada students due to the geographical location. In addition, they run small cohorts that will not produce enough students to fulfill current workforce needs.

The DMS Certificate Program would allow students to obtain the certification while continuing to live in and work in rural and Northern Nevada. This program will enhance the quality of health care throughout Nevada by providing certified trained professionals. The program will add to the number of GBC's certificate, Associate and Bachelor programs within the Health Sciences and Human Services that currently receive national, regional, or statewide accreditations. This certificate program will join with the Bachelor of Science in Sonography program as an accredited DMS program through The Commission on Accreditation of Allied Health Education Programs (CAAHEP). At the end of the program, students will be able to test to obtain credentials through the American Registry of Diagnostic Medical Sonographers (ARDMS) or the American Registry of Radiologic Technologists (ARRT).

ii. Student population to be served

This program is geared toward students who currently hold a degree in a patient care healthcare field or a bachelor degree or higher and are looking to enhance skills, education and job opportunities.

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

Feedback from our students and regional hospitals, as well as data from the Bureau of Labor Statistics, indicated the need for this program.

iv. Organizational arrangements required within the institution to accommodate the program

There will be no organizational changes needed to accommodate this program.

v. The timetable, with dates, for implementation steps

N/A

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.

There are DMS programs at the College of Southern Nevada (CSN) and University of Nevada-Las Vegas (UNLV), as well as GBC’s current Bachelor of Science in Comprehensive Medical Imaging (CMI) with Emphasis in Diagnostic Medical Sonography (DMS) program. However, due to the small cohorts accepted at CSN and UNLV, the number of skilled employees are not available to fulfill workforce needs. In addition, these programs are not feasible for many Northern Nevada residents who may be geographically tied to the area due to financial or other personal responsibilities. This has forced many regional medical facilities to hire employees from out of state programs or cross train their own. These facilities have found this leads poor employee performance or retention and longevity. The addition of the GBC BS in CMI with Emphasis in DMS has made strides toward addressing these needs. However, because the BS degree requires a greater number of general education credits, it may slow student progress toward a degree. The certificate component allows qualified students to reach certificate completion and credentialing faster. While they are still encouraged to pursue the BS degree, this options allows them to fulfill employment needs while they complete the general education and BS level courses, getting them into the workforce sooner and helping them earn as they learn.

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.

Data listed from the Bureau of Labor Statistics the job outlook for 2021-2031 is 10%, faster than average for all occupations. About 14,000 openings for Diagnostic Medical Sonography are projected each year, on average, over the decade. These statistics support the need for those pursuing a degree in DMS (<https://www.bls.gov/ooh/healthcare/diagnostic-medical-sonographers.htm>).

F. Detailed curriculum proposal

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

Full time Diagnostic Medical Sonography curriculum:

Certificate of Achievement

Prerequisites

A previously awarded degree in a patient care area of allied health including or in addition to:

MATH 120 Fundamentals of College Mathematics Or MATH 120E or higher	3 Credits
PHYS 100 Introductory Physics Or RAD 118 Radiographic Physics	3 Credits
ENG 102 Composition II	3 Credits

Or COM 113	
NURS 140 Medical Terminology	3 Credits
Or RAD 112 Patient Care and Medical Terminology	2 Credits
Or EMS 204 Principles of Anatomy and Pathophysiology	4 Credits
NURS 130 Certified Nursing Assistant	6 Credits
Or EMS 118 Advanced Emergency Medical Technician	8 Credits
Or RAD 112 Patient Care and Medical Terminology	2 Credits
BIOL 223 Human Anatomy and Physiology I	4 Credits
Or EMS 204 Principles of Anatomy and Pathophysiology	4 Credits
BIOL 224 Human Anatomy and Physiology II	4 Credits
Or EMS 204 Principles of Anatomy and Pathophysiology	4 Credits
TOTAL	21-29 Credits

Fall Semester

NURS 337 Pathophysiology	
Or EMS 204 Principles of Anatomy and Pathophysiology	3-4 Credits
CMI 350 Ultrasound Physics and Instrumentation	4 Credits
CMI 351 Abdominal Ultrasound	3 Credits
CMI 353 Gynecologic Ultrasound	3 Credits
CMI 354 Vascular Ultrasound	1 Credit
CMI 376 Sectional Anatomy in Medical Imaging	3 Credits
TOTAL	17-18 Credits

Winter Semester

CMI 400 Introduction to Clinical Imaging Experience	2 Credits
TOTAL	2 Credits

Spring Semester

CMI 352 Obstetric Ultrasound	3 Credits
CMI 366 Abdominal Ultrasound II	2 Credits
CMI 378 Small Parts Ultrasound	1 Credit
CMI 486 Diagnostic Medical Imaging Clinical Experience I	9 Credits
TOTAL	15 Credits

Summer Semester (Early Fall)

CMI 487 Diagnostic Medical Imaging Clinical Experience II	7 Credits
TOTAL	7 Credits

Fall Semester

CMI 488 Diagnostic Medical Imaging Clinical Experience III	10 Credits
CMI 491 Sonography Review Topics	1 Credit
HMS 200 Ethics in Human Services	3 Credits
TOTAL	14 Credits

Program Total Credits (Excluding Prerequisites) 55-56

ii. Program entrance requirements

- Qualified applicants for the Diagnostic Medical Sonography Certificate Program must have all required prerequisites including a previously awarded degree in a patient care centered healthcare field or a bachelor level degree including or in addition to the aforementioned prerequisite courses.
- BLS for Healthcare Providers
- Proof of clinical site required vaccinations and background check

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

Successful Completion of the Diagnostic Medical Sonography Certificate Program hours and all prerequisites with a C (76%) or higher, including all didactic, lab, and clinical coursework. Prior to the award of the certificate students must complete 76-85 credits. Credit variations are determined by the degree utilized to apply for the program.

iv. Accreditation consideration (organization (if any) which accredits program, requirements for accreditation, plan for attaining accreditation - include costs and time frame)

The GBC Diagnostic Medical Sonography Certificate will be added to the current BS in CMI with Emphasis in DMS accreditation already achieved through The Commission on Accreditation of Allied Health Education Programs (CAAHEP).

v. For certificates only: Name of any state, national and/or industry recognized certification(s) or licensing examination(s) for which certificate prepares the student, if applicable

American Registry in Diagnostic Medical Sonography (ARDMS) in the specialty areas of Abdomen (ABD) and Obstetrics/Gynecology (OB/GYN).

And/or

The American Registry of Radiologic Technology (ARRT) in sonography (S).

G. Method of Delivery (for the purpose of state authorization [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)

Faculty are reviewed every year. The review process includes faculty setting annual goals and prioritizing areas within their job responsibilities to focus on. The review must be completed no later than June 30 each year. Program reviews are completed every 5 years in accordance with NSHE policy.

ii. Describe the process for review and approval by the appropriate academic policy body of the institution

The program was reviewed and approved by the GBC Curriculum and Articulation Committee October of 2022, and will be on the Faculty Senate meeting scheduled for November. In addition, the Dean of Health Science and Human Services and the VP of Academic Affairs.

I. Readiness to begin program

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

The medical imaging programs at GBC currently employ Reme Huttman, M.Ed, RDMS as program director of the AS in Radiologic Sciences and the BS in CMI with Emphasis in DMS. Grant funding was obtained in 2022 to cover expenses and fringe for Erica Salazar, RDMS who will also participate in instructing for the DMS certificate program. The courses currently being offered for the BS in CMI with Emphasis in DMS will fulfill all certificate course requirements

ii. List the anticipated sources or plans to secure qualified faculty and staff

Current faculty will instruct certificate courses.

iii. Contribution of new program to department's existing programs (both graduate and undergraduate) and contribution to existing programs throughout the college or university

The DMS Certificate Program will provide a new pathway for HSHS students at GBC. It will allow options for qualified perspective DMS students who are looking for a faster path to employment.

iv. Recommendations from prior program review and/or accreditation review teams

Stakeholders have continually expressed the need for qualified sonographers, and students have demonstrated significant interest in this pathway. Applications for the BS in CMI with Emphasis in DMS have doubled from 2021 to 2022. Perspective students with backgrounds in various healthcare fields appreciate the career advancement and employment opportunities a certificate like this will offer them.

v. Is this program designed to meet educational requirements for a specific professional license or certification that is required for employment in an occupation, or is advertised as meeting such requirements?

- Yes
 No

J. Resource Analysis

i. Proposed source of funds (enrollment-generated state funds, reallocation of existing funds, grants, other state funds)

Due to the generous grants obtained in prior years through Perkins, Helmsley and OSIT for the BS in CMI with Emphasis in DMS, no additional funding for this certificate will be required.

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 for students declaring the DMS certificate as their major.

1st Fall semester 4

3rd Fall semester 6

5th Fall semester 8

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

Students are required to enroll in the one-year program and the multiplier is based on the required number of credits.

b. (1) Unduplicated headcount in the Fall semester of the first, third, and fifth year.

1st Fall semester 4

3rd Fall semester 6

5th Fall semester 8

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

We anticipate that all the students will be enrolled as full-time students. Headcount and FTE are anticipated to reach projected enrollment levels in about the fifth year of the program. It is anticipated that the programs will enroll graduates as well as current students

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

See cost estimated worksheet

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

The DMS Certificate program will share classroom and lab space with the current BS in CMI with Emphasis in DMS program. No additional modifications or special facilities will be required.

ii. Additional facilities required: number of assignable square feet, description of space required, special requirements, time sequence assumed for securing required space

The DMS Certificate program will share classroom and lab space with the current BS in CMI with Emphasis in DMS program. No additional modifications or special facilities will be required.

iii. Existing and additional equipment required

The DMS Certificate program will share equipment with the current BS in CMI with Emphasis in DMS program. No additional equipment will be required.

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

Between the library, required texts and internet resources, students will have adequate access to all necessary learning materials for this program.

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

Current faculty and the program director will provide all student advisement for this program. Students will follow current institutional admissions policies to enter the college and final admission decisions for the program will be made by the program director in concert with the Health Science and Human Services Admissions and Progression Committee. The additional student application process should not provide strain on the current institution. The academic success center will provide tutoring upon student request. Students will be encouraged to apply for financial aid according to existing institutional guidelines adding slightly to the financial aid workload of institution. All necessary programs, policies and departments are in place and the additional workload should be minimal.

ii. Describe the implications of the program for services to the rest of the student body

This program will provide additional education options 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.**
GBC currently has articulation agreements with TMCC.
- 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)**
N/A

P. Summary Statement

- The Diagnostic Medical Sonography Post -Associate Certificate Program will enhance options to students at Great Basin, in rural Nevada and in the greater Northern Nevada area.
 - The Certificate option for DMS will allow students already awarded a health care field degree an efficient pathway to enhance their career, expand into new areas and increase workforce options.
 - This certificate will help address the current workforce shortage plaguing medical imaging facilities in an efficient manner while providing options, so facilities are not required to take short cuts in education. This will enhance the patient care and efficacy in our region.
 - Although UNLV and CSN have sonography programs, this is not often feasible for students in the Northern Nevada region due to requirements for relocation. Due to limited cohort size in these programs, additional opportunities are currently necessary to address the significant nature of the workforce shortage.
-

NEW PROGRAM PROPOSALS:
PROCESS FOR APPROVAL BY ACADEMIC AFFAIRS COUNCIL AND, IF REQUIRED,
THE NEVADA BOARD OF REGENTS

(October 2017)

Pursuant to Title 4, Chapter 14, Sections 7 and 8 of the Board of Regents *Handbook* and Chapter 6, Section 12 of the *NSHE Procedures and Guidelines Manual*, a new program, as proposed on this form, must be submitted by the NSHE institution for approval by the NSHE Academic Affairs Council. In addition, certain items must also be approved by the Board of Regents. The required approvals are specified below:

Program Proposals Requiring NSHE Academic Affairs Council (AAC) Approval Only

- Certificates 30 credit hours or more;
- Certificates of at least 9 and less than 30 credit hours that provide preparation necessary to take state, national and/or industry recognized certification or licensing examinations; and
- Study abroad programs.

Program Proposals Requiring NSHE Academic Affairs Council AND Nevada Board of Regents Approval:

- Degree, major or primary field of study for baccalaureate, master's, and doctoral level programs (BA, BS, MA, MS, Ph. D, and named degrees).
- Emphases, major or primary field of study within the Bachelor of Applied Science (BAS).
- Primary field of study within an Associate of Arts, an Associate of Science, and an Associate of Business (AA, AS, and AB).
- Primary field of study within an Associate of Applied Science (AAS); and
- Emphasis, concentration, or options that are converted into a major.

Note to Institutions: Following the required approval by the AAC and/or Nevada Board of Regents, institutions should determine whether the item requires submission to/approval by its accrediting organization (NWCCU) and take any necessary next steps with the accrediting organization.