**ARTICULATION AGREEMENT**
**BETWEEN**
**NORTHWEST MISSOURI STATE UNIVERSITY**
**AND**
**NORTH CENTRAL MISSOURI COLLEGE**
**in**
**SONOGRAPHIC SCIENCES**

I. INTRODUCTION

On this sixteenth day of February, 2023 **Northwest Missouri State University (NORTHWEST) and North Central Missouri College (NCMC)** enter into an agreement for an articulated program. This agreement is based upon a mutual respect for the integrity of parallel academic programs and in an effort to better serve students intending to pursue a career in diagnostic medical sonography, NORTHWEST and its Board of Regents and NCMC hereby enter into an agreement for an articulated program. This agreement outlines a 2+2 degree completion program and defines course work to be completed at NORTHWEST for a student intending to complete an Associate of Applied Science [AAS] in Diagnostic Medical Sonography culminating in these students receiving a Bachelor's of Science in Sonographic Sciences [BSSS] from Northwest.

II. DESCRIPTION of NORTHWEST

Located in Maryville, Missouri, Northwest Missouri State University is a state-assisted, four-year regional university that offers undergraduate and graduate degrees. Northwest is accredited by the Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools and holds several discipline-specific accreditations.

III. DESCRIPTION of NORTH CENTRAL MISSOURI COLLEGE

North Central Missouri College is a public two-year community college offering associate degrees and certificates across a 17-county service region in northern Missouri. NCMC is accredited by the Higher Learning Commission (HLC) of the North Central Association of Colleges and Schools.

The Diagnostic Medical Sonography program is a two-year program, once accepted into the core program. As of 2023, the Diagnostic Medical Sonography program will be located at NCMC's Savannah Campus. Pre-requisite courses may be taken in the classroom or online. Upon successful program completion, graduating students will be eligible to sit for the Sonography Principles and Instrumentation (SPI) Examination.

The NCMC Diagnostic Medical Sonography program is currently seeking initial accreditation from Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). The curriculum is in alignment with the American Society of Diagnostic Medical Sonography (ARDMS) requirements and contains didactic and clinical components. Curriculum is competency based and designed to develop health care professionals who possess entry-level skills in diagnostic imaging.

IV. OBJECTIVES OF THE AGREEMENT

1. To facilitate the transition of students from NCMC to NORTHWEST or from NORTHWEST to NCMC.
2. To provide specific advisement for students of NORTHWEST who intend to pursue professional study at NCMC or students of NCMC who intend to complete a BSSS

3. To encourage academic and administrative coordination between institutions, and the exchange of evaluative information on the outcomes of the program with the goal of continual improvement.
4. To provide qualified students the opportunity to complete an AAS in Diagnostic Medical Sonography from NCMC culminating in eligibility to sit for the Sonography Principles and Instrumentation (SPI) Certification Examination in conjunction with completion of the BS in Sonographic Sciences at NORTHWEST.

V. PROVISIONS OF THE AGREEMENT

1. Under the provisions of this program, students who meet publicized admission standards of both institutions will matriculate separately at both NORTHWEST and NCMC and complete a specified program, including general education and institutional requirements, as outlined in Appendices A and B and as described in the respective institutional catalogs in completion of the NORTHWEST BSRS.
2. Students must comply with the rules and regulations as stated in the student handbook and catalog of NORTHWEST while completing Northwest Core, Institutional Requirements, and BSSS program courses and college requirements of NCMC while completing the Diagnostic Medical Sonography courses.
3. Student financial aid is available from NORTHWEST for this program for students completing the NORTHWEST requirements of the BSSS prior to enrollment in the NCMC Diagnostic Medical Sonography program. Student financial aid is available from NCMC for this program for students completing the requirements for NCMC's AAS in Diagnostic Medical Sonography program.
4. Students admitted to NCMC and who successfully complete the Diagnostic Medical Sonography program (Appendix B) in good standing will be granted articulation to NORTHWEST; a block of 57 credit hour equivalency to fulfill the Sonography component of the BSSS at NORTHWEST.
5. Students completing courses eligible under Missouri Core 42 at either institution may transfer those courses toward completion of equivalent MOTR courses in accordance with the Missouri Core 42 program and mutual agreement.
6. NCMC BI240 Anatomy (4) will transfer in equivalency to NORTHWEST BIOL 04236 (4); NCMC BI242 Physiology (4) will transfer in equivalency to NORTHWEST BIOL 04238 Physiology for Allied Health (4); NCMC AH160 Basic Medical Terminology (3) will transfer in equivalency to NORTHWEST BIOL 04104 Medical Terminology (3).
7. Students will be awarded the BSSS at NORTHWEST upon demonstration of successful completion of the AAS in Diagnostic Medical Sonography at NCMC and all other degree requirements of NORTHWEST.
8. Students shall pay the appropriate tuition and fees to each institution for all course work taken at that institution. Students are also obligated to adhere to all academic policies and guidelines of their current institution.
9. NCMC will provide students from NORTHWEST with the same liability insurance it provides to any other student in the program during clinical and other components of the program.
10. NCMC and NORTHWEST shall be responsible for establishing and enforcing policies for student health and safety for students enrolled in their institutional courses respectively.
11. NCMC students enrolled in the Diagnostic Medical Sonography program who have already completed the NORTHWEST BSSS program requirements shall remain eligible for an updated Bearcat Card, and to receive student discounts at NORTHWEST on items as any other NORTHWEST students.

12. This agreement will be established and remain in effect under condition of completion and maintenance of accreditation of NCMC by the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS).

VI. MUTUAL PROMOTION OF THE PROGRAM

- Northwest Missouri State University and North Central Missouri College agree to encourage qualified students to participate in this 2+2 degree completion program through advisement and in their recruitment activities and literature.
- The appropriate advisor at NORTHWEST will make every effort to maintain a list of students actively pursuing the program with the intent to enroll in the NCMC program and provide this list to NCMC upon request.

VII. STUDENT ADVISEMENT

- An appropriate faculty or staff member at NORTHWEST shall be assigned and responsible to advise students regarding their academic preparation for admission to NCMC and for their ultimate goal of diagnostic medical sonography certification.
- NCMC will also provide advisement to help students intending complete the BSSS through mutual enrollment and prepare for licensure examinations.

VIII. CONTINUATION AND TERMINATION OF THE AGREEMENT

This agreement shall be in force until either institution makes a decision in writing to terminate it. Upon consent of both parties, changes can be made to the curriculum without changing the tenets of this agreement. In such cases appendices A and B can be assumed to have adjusted accordingly to those curricular changes. It is agreed that if terminated, that both institutions will honor the terms of the agreement until all students already admitted are given the opportunity to complete the program in a timely manner.

IX. GENERAL PROVISIONS

1. Any and all notices provided for herein shall be given in writing by certified mail, return receipt requested, which shall be addressed to the addresses shown herein unless changed after notice. Notice may also be delivered by hand or overnight mail through a common overnight carrier. Notices other than by hand delivery will be considered given as of the date of mailing or delivery by the sender to the overnight service.
2. No modification of this Agreement shall be valid unless such modification is in writing and signed by both parties.
3. No waiver of any provision of this Agreement shall be valid unless in writing and signed by the person or party against whom charged.
4. This Agreement shall be subject to and governed by the laws of the State of Missouri and any action brought in any way arising out of this Agreement shall be construed as if such invalid or unenforceable provisions were omitted.
5. The invalidity or unenforceability of any particular provision of this Agreement shall not affect the other provisions hereof, and this Agreement shall be construed as if such invalid or unenforceable provisions were omitted.
6. This Agreement shall be binding upon and inure to the benefit of the parties. Neither party may assign their respective rights or obligations pursuant to this Agreement without written approval of the other party.
7. Nothing in this Agreement shall prevent either party from entering to the same or similar transactions in any locale under the same or similar terms with any other party.

## Appendix A

### Courses required at Northwest Missouri State University

| **Required Courses** | **Semester Hours** |
|---|---|
| Bio 04-104 Medical Terminology (see V.7. above) | 3 |
| Bio 04-236 Human Anatomy for Allied Health Sciences (see V.7. above) | 4 |
| Bio 04-238 Human Physiology for Allied Health Sciences (see V.7. above) | 4 |
| Chem 24-114/115 General Chemistry I and Laboratory | 4 |
| **Total Required Course Hours** | **15** |
| | |
| **Directed General Education Courses** | **Semester Hours** |
| The following courses are to be taken to fulfill General Education Requirements | |
| Bio 04-102/103 General Biology and Laboratory OR<br>Bio 04-106/107 Principles of Biology and Laboratory | 4 |
| Math 17-118 Precalculus Algebra | 3 |
| Phys 25-110/111 General Physics I and Laboratory | 4 |
| Phil 39-276 Biomedical Ethics | 3 |
| Soc 35-101 General Sociology | 3 |
| Com 29-102 Fundamentals of Oral Communication | 3 |
| **Total Directed General Education Hours** | **20** |
| | |
| **Remaining General Education Requirements** | 24 |
| **Total General Education Hours** | **44** |
| | |
| **Institutional Requirements** | **4** |
| | |
| **Total BSSS hours in addition to Sonography course transferred credit** | **63** |
| **Credit transferred for completion of Diagnostic Medical Sonography requirements** | **57** |
| **Total hours for completion of Bachelor of Science in Sonographic Sciences** | **120*** |

*Note that in any transfer or completion circumstances in which a student may accumulate fewer than a total of 120 credit hours, additional elective courses will be required to meet the 120 credit hour minimum for bachelor's degree completion.

## Appendix B

The following courses are taken by students in the NCMC Diagnostic Medical Sonography AAS program. These courses are not offered on campus by Northwest Missouri State University, but are taught by North Central Missouri College.

| Course Code | Course Name | Credit Hours |
|---|---|---|
| **Pre-Requisite Courses** | | |
| BI240 | Human Anatomy | 4 |
| AH160 | Basic Medical Terminology | 3 |
| BI242 | Human Physiology | 4 |
| PS185 | College Physics | 4 |
| **Total Pre-Requisite Courses** | | **15** |
| **General Education Courses** | | |
| SP175 | Speech | 3 |
| | OR SP220 Interpersonal Communications | |
| HI103 | American History to 1877 | 3 |
| | **OR** HI104 American History Since 1877 | |
| | **OR** PL216 National Government | |
| EN101 | English 1 | 3 |
| MT122 | College Algebra | 3 |
| **Total General Education Courses** | | **12** |
| **Diagnostic Medical Sonography Courses** | | |
| **First Semester** | | |
| SG100 | Introduction to Ultrasound Physics & Instrumentation I | 3 |
| SG110 | Introduction Sonography Diagnostic & Medical Law Ethics | 2 |
| SG120 | Abdominal Ultrasound & Small Parts I | 2 |
| SG130 | Vascular Technology I | 2 |
| SG140 | Scanning Lab I | 3 |
| **Second Semester** | | |
| SG150 | Advanced Ultrasound Physics & Instrumentation II | 3 |
| SG160 | Vascular Technology II | 2 |
| SG170 | Gynecologic & First Trimester Sonography | 2 |
| SG180 | Abdominal Ultrasound & Small Parts II | 2 |
| SG190 | Scanning Lab II | 2 |
| SG195 | Clinical Practice I | 4 |
| **Third Semester** | | |
| SG210 | Abdominal Ultrasound & Small Parts III | 2 |
| SG220 | Clinical Practice II | 4 |
| **Fourth Semester** | | |
| SG230 | Obstetrical 2nd & 3rd Trimester Sonography | 2 |
| SG240 | Scanning Lab III | 2 |
| SG250 | Clinical Practice III | 8 |
| **Fifth Semester** | | |
| SG260 | Senior Seminar & Registry Review | 2 |
| SG270 | Clinical Practice IV | 10 |
| **Total Diagnostic Medical Sonography Courses** | | **57** |