

# ULTRASOUND TECHNOLOGY CERTIFICATE OF APPLIED SCIENCE

The Ultrasound Technology Certificate of Applied Science (CAS) program prepares students to function as ultrasonographers in a broad variety of clinical settings, including hospitals, clinics, and community health centers. The three-semester CAS program includes classroom, laboratory, and clinical learning opportunities. Laboratory and clinical experience allow students to integrate classroom knowledge in a practical setting. Students may rotate through different clinical sites during the program.

## Program Entrance Requirements

Ultrasound applicants must meet the following program entrance requirements:

- Completed a 200-level anatomy & physiology course with a C or higher
- Have an associate degree in an allied health care field from a regionally accredited (<https://catalog.msubillings.edu/cc/academic-affairs/>) college that includes hands-on patient care OR a bachelor's degree
- Hold a current medical registry, licensure, or certification
- Must have a minimum number of patient care hours (volunteer, clinical, or work)

Additional details can be found at the program webpage: [www.msubillings.edu/citycollege/programs/ProgUltrasound.htm](http://www.msubillings.edu/citycollege/programs/ProgUltrasound.htm) (<http://www.msubillings.edu/citycollege/programs/ProgUltrasound.htm>).

The Ultrasound Tech program is a competitive entrance program. Applicants to the program will need to be admitted to City College first, and then complete the program's application process by the deadline specified by the department.

Please see the program webpage ([www.msubillings.edu/citycollege/programs/ProgUltrasound.htm](http://www.msubillings.edu/citycollege/programs/ProgUltrasound.htm)) (<http://www.msubillings.edu/citycollege/programs/ProgUltrasound.htm>) for more details on the application process. Space is limited based on clinical accessibility. Please note that clinical sites can be throughout Montana and other states upon approval by the department.

Students must complete all required Ultrasound Technology (US) classes with a "C" (75%) or higher to proceed to the next semester. If a student does not pass all required courses with a "C" (75%) or higher, he/she will not be able to continue in the program.

After successfully completing the program, students are awarded a Certificate of Applied Science degree and are prepared to sit for the American Registry of Diagnostic Medical Sonographers (ARDMS).

Conviction of a crime (misdemeanor or felony) could leave an individual ineligible for participation in the certifying test and/or becoming registered in Montana or other states. Background checks are required prior to clinical internships. Please contact the ARDMS and/or the ARRT to complete and Ethics Review if the student believes there may be a potential problem.

Code	Title	Credits
<b>Prerequisite Courses</b>		
The required prerequisite courses listed below may have already been completed in previous health science studies, and if so, may be accepted as transfer courses. If not, they must be completed before entry into the Ultrasound Certificate program.		
AHMS 144	Medical Terminology	3
CAPP 120	Introduction to Computers	3

COMX 106	Comm in a Dynamic Workplace	3
M 111	Technical Mathematics	3
WRIT 104	Workplace Communications	3

## Required Courses

Code	Title	Credits
<b>Required Courses</b>		
AHUS 100	Introduction to Sonography	3
AHUS 101	DMS Principles & Instruments	3
AHUS 102	Abdominal Sonography	3
AHUS 103	OB/Gyn Sonography I	3
AHUS 104	Clinical Experience I	4
AHUS 105	Clinical Experience II	4
AHUS 106	Sectional Anatomy	3
AHUS 107	Ultrasound Physics	3
AHUS 108	Clinical Experience III	4
<b>Total Minimum Credits</b>		<b>30</b>

Students should check the course descriptions for required prerequisites.

## Suggested Plan of Study

Code	Title	Credits
<b>Prerequisite Semester</b>		
AHMS 144	Medical Terminology	3
COMX 106	Comm in a Dynamic Workplace	3
M 111	Technical Mathematics	3
CAPP 120	Introduction to Computers	3
WRIT 104	Workplace Communications	3
Total		15
<b>First Semester</b>		
AHUS 100	Introduction to Sonography	3
AHUS 101	DMS Principles & Instruments	3
AHUS 102	Abdominal Sonography	3
AHUS 104	Clinical Experience I	4
Total		13
<b>Second Semester</b>		
AHUS 103	OB/Gyn Sonography I	3
AHUS 105	Clinical Experience II	4
AHUS 106	Sectional Anatomy	3
Total		10
<b>Third Semester</b>		
AHUS 107	Ultrasound Physics	3
AHUS 108	Clinical Experience III	4
Total		7