

Associate of Applied Science in Diagnostic Medical Sonography

The Associate of Applied Science (AAS) in Diagnostic Medical Sonography is designed for individuals who already have training and experience in a profession that provides direct care or treatment to people. This program prepares competent entry-level general sonographers in the cognitive (knowledge), psychomotor (skills) and affective (behavior) learning domains. Examples of examinations performed by sonographers include abdominal, gynecological, fetal, breast, vascular, small part and superficial structures. Graduates are prepared to sit for a national certification exam in diagnostic medical sonography.

Diagnostic medical sonographers provide patient services in a variety of medical settings assisting physicians with assessing and diagnosing medical conditions as well as monitoring fetal development. Diagnostic medical sonographers use specialized equipment that produces high-frequency soundwaves to create images of organs, tissues and blood vessels within the body. Examples of examinations that can be performed by sonographers include abdominal, gynecological, fetal, breast, vascular, small parts and superficial structures.

Licensure and/or Certification

The Associate of Applied Science (AAS) in Diagnostic Medical Sonography prepares students for the Sonography Principles and Instrumentation, Abdomen, and Obstetrics and Gynecology examinations from the American Registry of Diagnostic Medical Sonographers (ARDMS) and the Sonography examination from the American Registry of Radiologic Technologists (ARRT).

Please go to UAA's Authorization by State (https://www.uaa.alaska.edu/academics/office-of-academic-affairs/provost_office/uaa-state-authorization/authorization.cshtml/) website for information about licensure or certification in a state other than Alaska.

Admission Requirements

- Complete the Admission Requirements for Associate Degrees (<http://catalog.uaa.alaska.edu/academicpoliciesprocesses/admissions/undergraduate/>).
- Complete the following courses with a minimum grade of C:
 - WRTG A111 or earn WRTG A1W in transfer
 - WRTG A212 or WRTG A213 or earn WRTG A2W in transfer
 - BIOL A111
 - BIOL A112
 - MA A101
 - MA A104
 - MATH A105
 - PHYS A123 or RADT A151

- Submit a diagnostic medical sonography program application according to instructions and deadlines on the program website (<https://www.uaa.alaska.edu/academics/college-of-health/departments/school-of-allied-health/academics/diagnostic-medical-sonography/applicationprocedure.cshtml/>).
- Provide documentation of:
 - The following immunizations: Hepatitis B titer showing immunity, Hepatitis A, MMR, TDap, Varicella, Influenza vaccine within the previous twelve months, and two step PPD text or Quantiferon Gold
 - Current Basic Life Support for Healthcare Providers certification
 - Completion of a minimum of 12 hours of sonographer observation spanning three days at two different imaging facilities/locations, documented on the program observation form (https://www.uaa.alaska.edu/academics/college-of-health/departments/school-of-allied-health/academics/diagnostic-medical-sonography/DMS-Clinical_Observation-2018.pdf).

All students will initially be admitted to pre-major status. Admission to pre-major status does not guarantee subsequent admission to the major. As a pre-major, students work with an advisor to assist them in completing pre-major requirements and preparing to apply to the full major. The program website (<https://www.uaa.alaska.edu/academics/college-of-health/departments/school-of-allied-health/academics/diagnostic-medical-sonography/index.cshtml/>) provides details on the admission requirements, process, and deadlines.

Special Considerations

- Once admitted to the full major, students will be required to submit results of a national-level criminal background check.
- Students will be required to physically attend at the main Anchorage campus the first year of full major status.
- Students may be required to complete clinical training at sites around the state during the second year to satisfy training and graduation requirements. The travel, lodging, and other associated costs with assignment outside the Anchorage area is at the student's expense.
- Students may be required to show proof of health insurance prior to the start of clinical training.

Graduation Requirements

- Complete the General University Requirements for Associate of Applied Science Degrees (<http://catalog.uaa.alaska.edu/undergraduateprograms/aasrequirements/>).
- Complete the General Education Requirements for Associate of Applied Science Degrees (<http://catalog.uaa.alaska.edu/undergraduateprograms/aasrequirements/generaleducationrequirements/>).
- Complete the following major requirements with a minimum grade of C:

Code	Title	Credits
BIOL A111	Human Anatomy and Physiology I	4
BIOL A112	Human Anatomy and Physiology II	4
DMS A101	Introduction to Sonography	2
DMS A103	Patient Care in Sonography	2
DMS A105	Principles and Instrumentation I	3
DMS A107	Abdominal Sonography I	2
DMS A109	OB and Gyn Sonography I	3
DMS A205	Principles and Instrumentation II	3
DMS A207	Abdominal Sonography II	2
DMS A209	OB and Gyn Sonography II	2
DMS A211	Small Parts Sonography	1
DMS A213	Vascular Technology	2
DMS A215	Breast Sonography	1
DMS A217	Fundamentals of Sonography Lab	1
DMS A219	Practical Sonography Lab	3
DMS A221	Pediatric Sonography	1
DMS A295A	Clinical Practicum I	9
DMS A295B	Clinical Practicum II	9
DMS A392	Pathophysiology Seminar	3
DMS A395	Clinical Practicum III	3
MA A101	Medical Terminology	3
MA A104	Essentials of Human Disease	3
MATH A105	Intermediate Algebra (or any course for which MATH A105 is a prerequisite)	3
PHYS A123 or RADT A151	College Physics I Radiographic Physics	2-3
RADT A231	Sectional Anatomy for Diagnostic Imaging	3
WRTG A212 or WRTG A213	Writing and the Professions Writing and the Sciences	3
Total		77-78

A minimum of 83 credits is required for the degree.

Program Student Learning Outcomes

At the completion of the diagnostic medical sonography program, students are able to:

- Apply entry-level knowledge of physics, anatomy, physiology and pathophysiology related to sonography.
- Perform general sonography with continuing competency.
- Demonstrate proficiency in patient assessment and care activities related to sonography.
- Utilize effective oral and written communication with patients, physicians and other medical personnel.
- Employ professional and ethical judgment in the performance of sonographic duties.