

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Ultrasonography is a diagnostic imaging procedure that utilizes high frequency sound waves to image abdominal organs, vessels, the heart, and the developing fetus in the maternal uterus. Ultrasound can demonstrate masses, fluid accumulations and other pathology in the patient. Ultrasound exams are performed under the supervision of a qualified physician. Students electing to take this area of study are prepared to enter the sonography field in the areas of adult and pediatric echocardiography as well as vascular ultrasound. The student, upon graduation, will be eligible to sit for the National Registry Exams for Diagnostic Cardiac Sonography. Upon passing the exams, they will use the designation RDCS (Registered Diagnostic Cardiac Sonographer). This is a limited entry program and students must attend a health programs orientation and meet with a health programs advisor for additional counseling. The Diagnostic Medical Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the JRC-DMS which is located at 2025 Woodlane Drive, St. Paul, MN 55125, (651) 731-1582.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate the ability to evaluate cardiovascular ultrasonic images for appropriate anatomy and recognize cardiovascular pathologic conditions.
- Demonstrate the ability to operate cardiovascular ultrasound equipment and determine proper sonographic techniques, transducer size, and image setting to obtain quality images.
- Demonstrate the ability to anticipate and provide basic patient care and comfort during sonographic procedures.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

SPECIAL PROGRAM REQUIREMENTS (65 Credits):

	CR	SEMESTER		CR	SEMESTER
COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105	3-5	_____	EGG 131 Technical Physics I or Physics with a lab	4	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____	HIT 117B Medical Terminology I	1	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____	SON 102B Basic Cardiac Sonography	3	_____
MATHEMATICS: MATH 111B, 116 or above (except MATH 122, 123)	3	_____	SON 102L Basic Cardiac Sonography Lab	1	_____
SCIENCE: BIOL 223, 224	8	_____	SON 116B Echocardiography I	3	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____	SON 125B Sonographic Physics and Instrumentation I	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____	SON 135B Cardiovascular Ultrasound Physics	2	_____
			SON 150B Patient Care for Imaging Professions	3	_____
			SON 160B Sonographic Scanning Lab I	2	_____
			SON 190B Sonographic Physics and Instrumentation II	3	_____
			SON 195B Sonographic Scanning Lab II	2	_____
			SON 216B Echocardiography II	3	_____
			SON 225B Stress Echocardiography	3	_____
			SON 250B Seminar and Case Review I	2	_____
			SON 255B Seminar and Case Review II	2	_____
			SON 261B Pediatric Echocardiography I	3	_____
			SON 262B Pediatric Echocardiography II	2	_____
			SON 275B Vascular Sonography I	3	_____
			SON 275L Vascular Sonography Lab I	1	_____
			SON 276B Vascular Sonography II	3	_____
			SON 276L Vascular Sonography Lab II	1	_____
			SON 280B Sonographic Clinical Practicum I	2	_____
			SON 281B Sonographic Clinical Practicum II	2	_____
			SON 282B Sonographic Clinical Practicum III	3	_____
			SON 283B Sonographic Clinical Practicum IV	3	_____
			SON 284B Sonographic Clinical Practicum V	3	_____
			SON 291B Cardiac Registry Review	2	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

NOTE: Courses with a B suffix (example - XYZ 123B) may be non-transferable for a NSHE baccalaureate degree. SONCAR-AAS

92
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

ASSOCIATE OF APPLIED SCIENCE

Guided Pathway
Associate of Applied Science (AAS) – Diagnostic Medical Sonography (DMS)
Cardiac/Vascular Ultrasound Track
Total Credits 92

First Semester	Requirement	Credit Hours	Term
BIOL 223	Science	4	Spring
Math 116 or higher (except MATH 122&123)	Math	3	Spring
ENG 101 or 107	English	3	Spring
U.S. & Nevada Constitution	Constitution Requirement	4	Spring
	TOTAL	14	
Second Semester	Requirement	Credit Hours	Term
Communications	Communications Requirement	3	Summer
Social Sciences/ Humanities	Social Sciences/Humanities Requirement	3	Summer
BIOL 189	Science	4	Summer
	TOTAL	10	
Third Semester	Requirement	Credit Hours	Term
BIOL 224	Science	4	Fall
EGG 131 or College Physics w/ Lab	Science	4	Fall
Human Relations	Human Relations Requirement	3	Fall
HIT 117B	Tech. Emphasis	1	Fall
	TOTAL	12	
Fourth Semester	Requirement	Credit Hours	Term
Program Application due to Limited Entry	Application Deadline is February 1 st every year	0	Spring
	TOTAL	0	
Fifth Semester	Requirement	Credit Hours	Term
SON 102B		3	Summer
SON 102L		1	Summer
SON 150B		2	Summer
SON 150L		1	Summer
	TOTAL	7	
Sixth Semester	Requirement	Credit Hours	Term
SON 160B		2	Fall
SON 280B		2	Fall
SON 125B		3	Fall
SON 116B		3	Fall
	TOTAL	10	
Seventh Semester	Requirement	Credit Hours	Term
SON 190B		3	Spring
SON 281B		2	Spring
SON 216B		3	Spring
SON 195B		2	Spring

SON 225B		3	Spring
	TOTAL	13	
Eighth Semester	Requirement	Credit Hours	Term
SON 282B		3	Summer
	TOTAL	3	
Ninth Semester	Requirement	Credit Hours	Term
SON 283B		3	Fall
SON 261B		3	Fall
SON 275B		3	Fall
SON 275L		1	Fall
SON 250B		2	Fall
SON 135B		2	Fall
	TOTAL	14	
Tenth Semester	Requirement	Credit Hours	Term
SON 276B		3	Spring
SON 276L		1	Spring
SON 291B		2	Spring
SON 284B		3	Spring
SON 255B		2	Spring
SON 262B		2	Spring
	TOTAL	13	
	Degree TOTAL	92	

** Note – Students are required to complete 40 hours of clinical observation for application to the program. Completion of this requirement is recommended in 2nd and 3rd semester due to the smaller credit load.

** Note – Student can obtain additional points towards selection for 40 hours of volunteer work if they do not have medical experience. This would be recommended in the 2nd semester due to the smaller credit load. Hours must be within 12 months of application.

** Note – Due to the high rigor of the DMS program, it is highly recommended that students complete all general education requirements before applying to the program. Additional points will be awarded during the selection process for this.

** Note – Once the student is accepted into the DMS program, all sonography courses must be taken in the semester listed. Courses are offered only once a year and failure to complete or pass once course results in termination from the program.

The student, upon graduation, will be eligible to sit for the National Registry Exams for Diagnostic Cardiac Sonography. Upon passing the exams, they will use the designation RDCS (Registered Diagnostic Cardiac Sonographer). Please note courses in the technical portion of the DMS program, with course designation 'SON', do not transfer to most colleges.

Comments _____
