



Academic Map: Diagnostic Medical Sonography – Cardiac/Vascular Ultrasound Track (AAS)

Associate of Applied Science (A.A.S) | 92 Total Credits | CSN Degree Code: SONCCAR-AAS | Catalog Year: 2022-2023 |

Health Sciences Health Sciences Department of Health-Related Professions

Jobs and Employment Information: <https://www.csn.edu/imctarea>

-LIMITED ENTRY PROGRAM-

DESCRIPTION: 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.

TERM 1 – TOTAL CREDIT HOURS: 10-12

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
MATH 116 OR ABOVE (except MATH122/123)	3	ACT/SAT or Placement	GE Math	C	
ENG 100 or 101 or 107 or 110 or 113	3-5	ENG Place Score; or C or up in ENG 98 or ESL 139	GE ENG	C	
COM 101 Oral Communications	3	None	GE Com	C	
HIT 117B Medical Terminology	1	AUTO 105B	Special Prog Req	C	Mandatory Advising Required

TERM 2 – TOTAL CREDIT HOURS: 14

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
BIOL 189 Fundamentals of Life Science ¹	4	ENG 100 or 101 or 113 and MATH 116 or above	Prerequisite	C	
EGG 131 and EGG 131L or PHYS 110 or above	4	Depends on course chosen	SP Elective	C	
PHIL 135 Introduction to Ethics	3	None	GE Human Rel	C	
PSY 101 General Psychology	3	None	GE FA/HUM/SS	C	Mandatory Advising Required

TERM 3 – TOTAL CREDIT HOURS: 8

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
BIOL 223 Human Anatomy and Physiology I	4	BIOL 189	GE Nat Science	C	
PSC 101 or HIST 100	4	None	GE US/NV Cons	C	Mandatory Advising Required

TERM 4 – TOTAL CREDIT HOURS: 4

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
BIOL 224 Human Anatomy and Physiology II	4	BIOL 223	GE Nat Science	C	Apply to Program

TERM 5 – TOTAL CREDIT HOURS: 7

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
SON 102B Basic Cardiac Sonography	3	Corequisite: SON 102L	Special Prog Req	C	
SON 102L Basic Cardiac Sonography Lab	1	Corequisite: SON 102B	Special Prog Req	C	
SON 150B Patient Care for Imaging Profs/Lab	3	None	Special Prog Req	C	Mandatory Advising Required

TERM 6 – TOTAL CREDIT HOURS: 10

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
SON 116B Echocardiography I	3	None	Special Prog Req	C	
SON 125B Son Physics and Instrumentation I	3	None	Special Prog Req	C	
SON 160B Sonographic Scanning Lab I	2	None	Special Prog Req	C	
SON 280B Sonographic Clinical Practicum I	2	None	Special Prog Req	C	Mandatory Advising Required

TERM 7 – TOTAL CREDIT HOURS: 13

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
SON 190B Son Physics and Instrumentation II	3	SON 125B
SON 195B Sonographic Scanning Lab II	2	None
SON 216B Echocardiography II	3	None
SON 225B Stress Echocardiography	3	None
SON 281B Sonographic Clinical Practicum II	2	SON 280B

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	Mandatory Advising Required

TERM 8 – TOTAL CREDIT HOURS: 3

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
SON 282B Sonographic Clinical Practicum III	3	SON 281B

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
Special Prog Req	C	Mandatory Advising Required

TERM 9 – TOTAL CREDIT HOURS: 14

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
SON 135B Cardiovascular Ultrasound Physics	2	None
SON 250B Seminar Case Review I	2	None
SON 261B Pediatric Echocardiography I	3	None
SON 275B Vascular Sonography I	3	None
SON 275L Vascular Sonography Lab I	1	Corequisite: SON 275B
SON 283B Sonographic Clinical Practicum IV	3	SON 282B

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	Mandatory Advising Required

TERM 10 – TOTAL CREDIT HOURS: 13

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>
SON 255B Seminar and Case Review II	2	None
SON 262B Pediatric Echocardiography II	2	None
SON 276B Vascular Sonography II	3	None
SON 276L Vascular Sonography Lab II	1	Corequisite: SON 276B
SON 284B Sonographic Clinical Practicum V	3	SON 293B
SON 291B Cardiac Registry Review	2	None

<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	
Special Prog Req	C	Apply for graduation

¹Students who need BIOL 189 will complete a total of 96 credits for this degree.

