



Academic Map: Diagnostic Medical Sonography – Cardiac Vascular Ultrasound Track

Associate of Applied Science (A.A.S) | 92 Total Credits | CSN Degree Code: SONCCAR-AAS | Catalog Year: 2021-2022 |

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

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

TERM 2 – TOTAL CREDIT HOURS: 14

	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
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

	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
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

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

TERM 5 – TOTAL CREDIT HOURS: 7

	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
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

	Credits	Pre-Requisite/Co-Requisite	Area	Min Grade	Milestones and Notes
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>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
SON 190B Son Physics and Instrumentation II	3	SON 125B	Special Prog Req	C	
SON 195B Sonographic Scanning Lab II	2	None	Special Prog Req	C	
SON 216B Echocardiography II	3	None	Special Prog Req	C	
SON 225B Stress Echocardiography	3	None	Special Prog Req	C	
SON 281B Sonographic Clinical Practicum II	2	SON 280B	Special Prog Req	C	Mandatory Advising Required

TERM 8 – TOTAL CREDIT HOURS: 3

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
SON 282B Sonographic Clinical Practicum III	3	SON 281B	Special Prog Req	C	Mandatory Advising Required

TERM 9 – 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>
SON 135B Cardiovascular Ultrasound Physics	2	None	Special Prog Req	C	
SON 250B Seminar Case Review I	2	None	Special Prog Req	C	
SON 261B Pediatric Echocardiography I	3	None	Special Prog Req	C	
SON 275B Vascular Sonography I	3	None	Special Prog Req	C	
SON 275L Vascular Sonography Lab I	1	Corequisite: SON 275B	Special Prog Req	C	
SON 283B Sonographic Clinical Practicum IV	3	SON 282B	Special Prog Req	C	Mandatory Advising Required

TERM 10 – TOTAL CREDIT HOURS: 13

	<u>Credits</u>	<u>Pre-Requisite/Co-Requisite</u>	<u>Area</u>	<u>Min Grade</u>	<u>Milestones and Notes</u>
SON 255B Seminar and Case Review II	2	None	Special Prog Req	C	
SON 262B Pediatric Echocardiography II	2	None	Special Prog Req	C	
SON 276B Vascular Sonography II	3	None	Special Prog Req	C	
SON 276L Vascular Sonography Lab II	1	Corequisite: SON 276B	Special Prog Req	C	
SON 284B Sonographic Clinical Practicum V	3	SON 293B	Special Prog Req	C	
SON 291B Cardiac Registry Review	2	None	Special Prog Req	C	Apply for graduation

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

