

Bachelor of Science (B.S.)

2023 - 2024 Catalog Year

Cardiovascular Sonography

Secondary Admission Application Required

		1st Year		
Fall		Winter		Spring/Summer
BIO 120: General Biology I GE Life Science	4	AHS 100: Medical Terminology	3	
¹ MTH 110: Algebra	4	BMS 250: Anatomy and Physiology I	4	
² WRT 150: Strategies in Writing ^{GE Writing}	4	MTH 122: College Algebra	3	
General Education GE Art	3	PSY 101: Intro. Psychology GE Social/Behavioral	3	
		SOC 105: Social Problems GE Social/Behav & US Diversity	3	
Total	15	Total	16	
	2nd \	rear ~ Apply to Program (by February 1st)		
Fall		Winter		Spring/Summer
BMS 251: Anatomy and Physiology II	4	PHY 220: General Physics I GE Physical Science	5	
³ MTH 123: Trigonometry	3	AHS 301: Intro. Hlth Care Research <u>or</u>	3	
STA 215: Intro. Applied Statistics GE Math	3	⁴ PSY 300: Research Mthds. in Psychology ^{GE SWS}	5	
General Education GE Philosophy and Literature	3	General Education GE Historical Analysis	3	
⁵ Electives	2	General Education GE Global Perspectives	3	
		⁵ Elective	1	
Total	15	Total	15	
	3rd	Year ~ CVS Program Admission Required		
Fall		Winter		Spring/Summer
RIU 320/321: Ultrasound Physics I w/lab	3	RIU 324: Applied Doppler Ultrasound Physics	2	RIE 362: Echo. Clinical Ed. II 3
RIE 330/331: Echocardiography I w/ lab	6	RIE 332/333: Echocardiography II w/ lab	4	RIE 363 Ped. Echo Cl. Ed. I
RIE 340: Cardiac & Vasc. Hemodynamics	2	RIE 361: Echocardiography Clinical Education I	2	or RIE 366 Vasc. Sono Cl. Ed. I
RIE 341: ECG in Radiologic Imaging Science	2	RIE 432/433: Vascular Sonography I w/ lab	3	
RIE 360: Intro. to Echo Clinical Ed.	2	RIT 441: Gross Human Sectional Anatomy	4	
Total	15	Total	15	Total 5
	4th	Year ~ CVS Program Admission Required		l
Fall		Winter		Spring/Summer
RIU 420: Ultrasound Physics Instruction II	2	AHS 340: Health Care Management GE Issues	3	
RIE 434/435: Pediatric Echo I w/ lab	4	RIE 438: Pediatric Echocardiography II	3	
RIE 436/437: Vascular Sonography II w/ lab	4	RIE 439/440: Vascular Sonography III w/lab	3	
RIE 463 Pediatric Echo Clinical Ed II or RIE 466 Vasc. Sonography Cl. Ed. II	3	RIE 457: Cardiovascular Image Evaluation	2	
2 . ,		RIE 464: Pediatric Echo Clinical Education III or RIE 467: Vascular Sonography Clinical Ed. III	3	
General Education GE Issues	3	3 1 7		
		RIE 495 Adv. Clinical Prob. in Echo/Vasc Son. sws	3	
Total	16	Total	17	

Curriculum Notes:

- ¹ MTH 108 and MTH 109 may be taken in place of MTH 110
- ² WRT 120 & WRT 130 may be taken in place of WRT 150. ("C" or better is required in WRT 130 or WRT 150)
- ³ MTH 123 is not required for the CVS major and is only listed on this guide as a prerequisite to PHY 220.

- This is a suggested curriculum guide that might not be applicable to every student.
- Courses that include 'GE' are required in the major **AND** fulfill a General Education requirement.
- Two (2) Supplemental Writing Skills (SWS) courses are required.
- Student must have a minimum of 120 credits to graduate with 58 of the 120 credits being from a senior level institution and the final 30 of the 120 credits completed at GVSU.

College of Health Professions ~ Student Services Office

 $^{^{\}mathbf{4}}$ PSY 300 may be used in place of AHS 301. AHS 301 is NOT an SWS.

⁵ Students may need elective courses to fulfill the 120 credits required to graduate.



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Cardiovascular Sonography

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	Prerequisite Courses			
√	(Grade of "C" or better required in prerequisite courses)	College/University	Course	Grade
	BMS 250 Anatomy and Physiology I			
	BMS 251 Anatomy and Physiology II			
	AHS 100 Medical Terminology			
	MTH 122 College Algebra			
	PHY 220 General Physics I			
	PSY 101 Introductory Psychology			
	SOC 105 Social Problems			
	STA 215 Introductory Applied Statistics			
	AHS 301 Introduction to Health Care Research			
	or PSY 300 Research Methods in Psychology			
	or St See Research Methods in r Sychology			
√	Remaining General Education Requirements	No	tes	
√	. 5	No	tes	
√	Remaining General Education Requirements	No	tes	
√	Remaining General Education Requirements WRT 150: Strategies in Writing or WRT 120/130 ("C" or higher required)	No	tes	
✓	Remaining General Education Requirements WRT 150: Strategies in Writing or WRT 120/130 ("C" or higher required) Life Sciences	No	tes	
√	Remaining General Education Requirements WRT 150: Strategies in Writing or WRT 120/130 ("C" or higher required) Life Sciences Arts	No	tes	
√	Remaining General Education Requirements WRT 150: Strategies in Writing or WRT 120/130 ("C" or higher required) Life Sciences Arts Historical Analysis	No	tes	
√	Remaining General Education Requirements WRT 150: Strategies in Writing or WRT 120/130 ("C" or higher required) Life Sciences Arts Historical Analysis Philosophy and Literature	No	tes	

The Cardiovascular Sonography major at GVSU is competitive and requires completion of a secondary application which is available online at www.gvsu.edu/cvs. Applications and all supplemental materials are due February 1st. Applicants must complete the prerequisite courses AND all the GVSU General Education courses prior to the start of the program in August. There are no waiting lists.

Application Requirements: Detailed application and admission requirements available at www.qvsu/cvs

- ✓ <u>GVSU Undergraduate Application</u> students must be admitted and eligible to start classes in the year of application
- ✓ <u>Program Application & Supplemental Materials</u> found at <u>www.gvsu.edu/cvs</u>
- Transcripts Official and updated copies of ALL non-GVSU transcripts sent directly to the GVSU Admissions Office (if not previously sent)
- ✓ <u>Minimum 3.00 GPA</u> in prerequisite courses and last 45 credits hours
- Minimum grade of "C" or better required in all prerequisite coursework
- Resume to include a specific section listing ALL health care experiences (volunteer, paid, job shadow)
 - o <u>Volunteer or Work in Health Field</u> minimum 16 hours experience in a health field (due at time of application)
 - o <u>Job Shadow</u> 2-3 hour job shadow with a practitioner in your field of interest (due at time of application)
- Statement of Professional Goals one to two-page statement addressing:
 - o Why you are interested, what are *your* plans, and what influenced your decision to choose this career field?
- <u>Two recommendations</u> on program specific forms (part of the program application)
- Verification of Course Completion form Identify how required courses will be completed PRIOR to start of the program
- Meet all physical performance requirements and technical standards details at www.gvsu.ed/cvs

Admissions Considerations

- Academic grade point average from prerequisite courses (40%)
- Academic grade point average from last 45 credit hours (10%)
- Interview and Writing Assessment completed on-site at the Cook-DeVos Center for Health Sciences (30%)
- Health Care Experience a minimum 16 hours of volunteer/work experience AND 2-3 hours job shadow in a health field (5%)
- Additional considerations such as educational, leadership and research work experience and/or volunteer activities are valued (10%)
- Recommendations (5%)