

Bachelor of Science (B.S.)
Cardiovascular Sonography
Secondary Application Required

1st Year					
Fall		Winter		Spring/Summer	
BIO 120: General Biology I <small>GE Life Science</small>	4	AHS 100: Medical Terminology	3		
MTH 110: Algebra	4	BMS 250: Anatomy and Physiology I	4		
WRT 150: Strategies in Writing <small>GE Writing</small> or WRT 120 <u>and</u> WRT 130 ¹	4	MTH 122: College Algebra	3		
General Education <small>Art</small>	3	PSY 101: Intro. Psychology <small>GE Social/Behavioral</small>	3		
		SOC 105: Social Problems <small>GE Social/Behav & US Diversity</small>	3		
Total	15	Total	16		
2nd Year ~ Apply to Program (by February 1 st)					
Fall		Winter		Spring/Summer	
BMS 251: Anatomy and Physiology II	4	PHY 220: General Physics I <small>GE Physical Science</small>	5		
MTH 123: Trigonometry	3	PSY 300: Research Mthds. in Psychology <small>GE SWS</small> or AHS 301: Intro. Hlth Care Research	3		
STA 215: Intro. Applied Statistics <small>GE Math</small>	3	General Education <small>GE Historical Perspectives</small>	3		
General Education <small>GE Philosophy and Literature</small>	3	General Education <small>GE Global Perspectives</small>	3		
Electives	2	Elective	1		
Total	15	Total	15		
3rd Year ~ 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
RIU 330/331: Abd. Sonography I w/ lab	6	RIE 332/333: Echocardiography II w/ lab	4	RIE 363 Ped. Echo Cl. Ed. I or RIE 366 Vasc. Sono Cl. Ed. I	2
RIE 340: Cardiac & Vasc. Hemodynamics	2	RIE 361: Echocardiography Clinical Education I	2		
RIE 341: ECG in Radiologic Imaging Science	2	RIE 432/433: Vascular Sonography I w/ lab	3		
Electives	2	RIT 441: Gross Human Sectional Anatomy	4		
Total	15	Total	15	Total	5
4th Year ~ Admission Required					
Fall		Winter		Spring/Summer	
RIU 420: Ultrasound Physics Instruction II	2	AHS 340: Health Care Management <small>GE Issues</small>	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		
Issues	3	RIE 464: Pediatric Echo Clinical Education III or... RIE 467: Vascular Sonography Clinical Ed. III	3		
		RIE 495 Adv. Clinical Prob. in Echo/Vasc Son. <small>GE SWS</small>	3		
Total	16	Total	17		

Notes:

¹ Students may choose the writing "Stretch" sequence of WRT 120 and WRT 130 **or** WRT 150.

- 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

Cook-DeVos Center for Health Sciences, 301 Michigan St. NE, Room 113, Grand Rapids, MI 49503

(616) 331-5900 or online at www.gvsu.edu/chpss

√	Prerequisite Courses (Grade of "C" or better required in prerequisite courses)	College/University	Course	Grade
	BMS 250 Anatomy and Physiology I (prereq: BIO 120)			
	BMS 251 Anatomy and Physiology II (prereq: BMS 250)			
	AHS 100 Medical Terminology			
	MTH 122 College Algebra (prereq: MTH 110)			
	PHY 220 General Physics I <small>Physical Sciences</small> (prereq: MTH 122 & 123 or 201)			
	PSY 101 Introductory Psychology <small>Social/Behavioral Sciences</small>			
	SOC 105 Social Problems <small>Social/Behavioral Sciences & US Diversity</small>			
	STA 215 Introductory Applied Statistics <small>Mathematical Sciences</small> (prereq: MTH 110)			
	PSY 300 Research Methods in Psychology (prereqs: PSY 101 & STA 215) Or... AHS 301 Introduction to Health Care Research (prereq: STA 215)			
√	Remaining General Education Requirements	Notes		
	WRT 150: Strategies in Writing (grade of "C" or higher required) or WRT 120 and WRT 130			
	Life Sciences (BIO 120 General Biology I)			
	Arts			
	Historical Perspectives			
	Philosophy and Literature			
	Global Perspectives			
	Supplemental Writing Skills (prerequisite: WRT 150) 1 – in MACRAO/MTA or General Education or by taking PSY 300 1 – in major/program (at GVSU Only)			
	2 Issues Courses...(at GVSU only) AHS 340 is an Issues course taken within the professional program A second Issues course is required after a student earns 55 credits			

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.gvsu.edu/cvs

- ✓ GVSU Undergraduate Application – students must be admitted and eligible to start classes in the year of application
- ✓ Program Application & Supplemental Materials – found at www.gvsu.edu/cvs
- ✓ Minimum 3.00 GPA 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)
 - Volunteer or Work in Health Field – minimum 16 hours experience in a health field (due at time of application)
 - Job Shadow – 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:
Why you are interested, what are *your* plans, and what influenced your decision to choose this career field?
- ✓ Two recommendations - on program specific forms (part of the program application)
- ✓ Transcripts - Official and updated copies of ALL non-GVSU transcripts sent directly to the GVSU Admissions Office
- ✓ 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.edu/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%)