



This course plan is a recommended sequence for this major. Courses designated as critical (!) may have a deadline for completion and/or affect time to graduation. Please see the Program Notes section for details regarding "critical courses" for this particular Program of Study.

Critical	Course Subject and Title	Credit Hours	Min. Grade <sup>1</sup>	Major GPA <sup>2</sup>	Code	Prerequisites	Notes
<b>Semester One (17-18 Credit Hours)</b>							
!	ENGL 101 Critical Reading and Composition	3	B		CC-CMW		
!	MATH 122 Calculus for Bus. Admin. & Soc. Sci. or MATH 141 Calculus 1 <sup>3</sup>	3-4	B		CC-ARP	C or better in MATH 111/111I/115 (MATH 122); C or better in MATH 112/115/116 (MATH 141); or placement through the MAP	
	BIOL 101 Biological Principles I	3	C		PR		
	BIOL 101L Biological Principles I Lab	1	C		PR		
!	CHEM 111 General Chemistry I	3	C		PR	C or better in MATH 111 or higher (or by placement into MATH 115 or higher); Prereq or Coreq: C or higher in CHEM 111L	
	CHEM 111L General Chemistry Lab	1	C		PR	Prereq or Coreq: C or higher in CHEM 111	
	UNIV 101 The Student in the Univ. (Elective) or PSYC 101 Introduction to Psychology	3	C		PR/CR		
<b>Semester Two (17-18 Credit Hours)</b>							
!	ENGL 102 Rhetoric and Composition	3	B		CC-CMW CC-INF	C or better in ENGL 101	
	STAT 201 Elementary Statistics (or higher)	3	B		CC-ARP	C or better in MATH 111 or higher; or C or better in STAT 110 or STAT 112; or placement through the MAP	
	BIOL 102 Biological Principles II	3	C		PR	Coreq: BIOL 102L	
	BIOL 102L Biological Principles II Lab	1	C		PR	Coreq: BIOL 102	
!	CHEM 112 General Chemistry II	3	C		PR	C or higher in MATH 111 or higher MATH (or by placement score into MATH 115 or higher); Prereq or Coreq: C or higher in CHEM 112L	
	CHEM 112L General Chemistry II Lab	1	C		PR	C or higher in CHEM 111L or CHEM 141L; Prereq or Coreq: C or higher in CHEM 112	
	Foreign language <sup>4</sup> or other Carolina Core Req. <sup>5</sup>	3-4			CC-GFL		
<b>Semester Three (17 Credit Hours)</b>							
	BIOL 243 Human Anatomy & Physiology I	3	B		CC-SCI		
	BIOL 243L Human Anatomy & Physiology Lab I	1	B		CC-SCI	Prereq or Coreq: BIOL 243	
	BIOL 303 Fundamental Genetics	3	C		MR	C or better in BIOL 101 & 102 or in MSCI 311	
!	CHEM 333 Organic Chemistry I	3	C		MR	C or higher in CHEM 112 or 142	
!	CHEM 331L Essentials of Organic Chem. Lab I	1	C		MR	C or higher in CHEM 112L or CHEM 142L; Prereq or Coreq: C or higher in CHEM 333	
	CLAS 230 Medical and Scientific Terminology	3	B		CR		
	Foreign language <sup>4</sup> or other Carolina Core Req. <sup>5</sup>	3			CC-GFL		
<b>Semester Four (17 Credit Hours)</b>							
	BIOL 244 Human Anatomy & Physiology II	3	B		CC-SCI	BIOL 243	
	BIOL 244L Human Anatomy & Physiology Lab II	1	B		CC-SCI	Corequisite: BIOL 244	
	BIOL 302 Cell & Molecular Biology	3	C		MR	C or better in BIOL 101 & in 102 or MSCI 311 & in CHEM 112 or 142	
	HSPM 412 Health Economics or HSPM 500 Intro. to Health Care Mgmt. & Org.	3	C		MR		
	PHYS 201 General Physics I	3	C		PR	C or better in MATH 111/111I/112/115/116/122/141 or by placement into MATH 122, 141 or higher	
	PHYS 201L General Physics Lab I	1	C		PR	Prereq or Coreq: C or better in PHYS 201	
	PSYC 101 Introduction to Psychology or Foreign language <sup>4</sup> or Carolina Core Req. <sup>5</sup>	3	B		CR/CC		
<b>Semester Five (18 Credit Hours)</b>							
	HSPM 412 Health Economics or HSPM 500 Intro. to Health Care Mgmt. & Org.	3	C		MR		
	Major Elective <sup>6</sup>	3	C		MR		
	History <sup>7</sup>	3			CR		
	PSYC 101 Introduction to Psychology or Carolina Core Requirement <sup>5</sup>	3			CR/CC		
	WGST 113 Women's Health	3	C		PR		
	Carolina Core Requirement <sup>5</sup>	3			CC		
<b>Semester Six (13 Credit Hours)</b>							
	Major Elective <sup>6</sup>	3	C		MR		
	SOWK 678 Transforming Health Care for the Future (cross-listed PUBH 678)	1	C		MR		
	CSCE 102 Web Design & Development using AI tools (or higher)	3			CR		
	Carolina Core Requirement <sup>5</sup>	3			CC		
	Carolina Core Requirement <sup>5</sup> or Elective <sup>8</sup>	3			CC/PR		

**Senior Year**

CVT Training: 15-18 month intensive CVT training program at one of six approved sites (Harry T. Harper, Jr. School of Cardiac and Vascular Technology, Piedmont Augusta (Augusta, GA), Claude W. Smith, M.D. School of Cardiovascular Technology at Medical University Hospital Authority (Columbia, SC), Prisma Health, Health Sciences Center (Greenville, SC), Hoffman Heart and Vascular Institute, St. Francis Hospital and Medical Center (Hartford, CT), Piedmont Technical College (Greenwood, SC), Cardiac and Vascular Institute of Ultrasound (Mobile, AL))<sup>9</sup> (36 Credit Hours)

**Graduation Requirements Summary**

Minimum Total Hours	Minimum Major Requirements Hours	College & Program Requirements Hours	Carolina Core Hours	Minimum Institutional GPA
126	59	36-38	32-44	2.75

1. Regardless of individual course grades, students are required to maintain a GPA of at least a 3.0 throughout the program.
2. Some colleges require a minimum GPA for major courses. Courses indicated in this column are included in the major GPA for this program of study.
3. Students who do not place into MATH 122 or 141 will be required to successfully complete the required prerequisite before taking either MATH 122 or 141.
4. Students in the McCausland College of Arts and Sciences are required to demonstrate proficiency in one foreign language equivalent to the 122 course through course credit or the corresponding foreign language placement score.
5. The [Carolina Core](#) provides the common core of knowledge, skill and academic experience for all Carolina undergraduate students.
6. **Major Elective (6 hours):** Select from following: **BIOL/CHEM 300-699; BMEN 548; PHIL 321.**
7. The McCausland College of Arts and Sciences requires one U.S. History and one non-U.S. History course, both of which must be chosen from the approved Carolina Core GHS courses. Whichever is not fulfilled through the Carolina Core GHS requirement must be fulfilled through this college requirement.
8. No courses of a remedial, developmental, skill acquiring, or vocational nature may apply as credit towards degrees in the McCausland College of Arts & Sciences. The McCausland College of Arts & Sciences allows the use of the Pass-Fail option on elective courses. Further clarification on inapplicable courses can be obtained from the McCausland College of Arts & Sciences.
9. Upon completion of the specified academic requirements, only students who have gained admission into an approved CVT training facility will be retained in the major. Following the academic portion of the Cardiovascular Technology Program, a 15-18 months clinical training program in an approved facility will be the final stage of the degree program. Students will declare one of the following concentrations that aligns with their intended training pathway. Students will enroll in one 12-credit course for the 3 terms they are enrolled in the training program, and will be awarded 36 credit hours upon completion of the clinical portion of the training.
  - a. Concentration in Combined Echo/Vascular: CVTC 494
  - b. Concentration in Adult Echocardiography: CVTC 495
  - c. Concentration in Vascular Sonography: CVTC 496
  - d. Concentration in Invasive Cardiovascular Technology: CVTC 497
  - e. Concentration in Electrophysiology: CVTC 498

**Program Notes:**

- ENGL 101 and ENGL 102 must be completed in the student's first 60 semester hours of work in order for these courses to be credited toward graduation. Other courses identified as "critical" may affect time to graduation due to prerequisite requirements for subsequent required courses.
- All undergraduate students must take a 3-credit course or its equivalent with a passing grade that covers the founding documents. This course may fulfill any requirement in the program of study. Courses that meet this requirement are listed in the academic [bulletin](#).
- Students who have already completed a CVT training program or CVT internship will not be eligible for acceptance into this major.
- If dismissed from CVT training program, the student will also be dismissed from the CVT major.
- The last 30 credit hours toward your degree must be earned in residence at the University of South Carolina-Columbia.

**University Requirements:** Bachelor's degree-seeking students must meet Carolina Core (general education) requirements. For more information regarding these requirements, please visit the [Carolina Core](#) page on the University website.

Codes:	
CC	Carolina Core
CC-AIU	Carolina Core-Aesthetic and Interpretive Understanding
CC-ARP	Carolina Core-Analytical Reasoning and Problem-Solving
CC-CMS	Carolina Core-Effective, Engaged, and Persuasive Communication: Spoken Component
CC-CMW	Effective, Engaged, and Persuasive Communication: Written Component
CC-GFL	Carolina Core-Global Citizenship and Multicultural Understanding: Foreign Language
CC-GHS	Carolina Core - Historical Thinking
CC-GSS	Carolina Core – Social Sciences
CC-INF	Carolina Core – Information Literacy
CC-INT	Carolina Core – Integrative Course
CC-SCI	Carolina Core – Scientific Literacy
CC-VSR	Carolina Core – Values, Ethics, and Social Responsibility
CR	College Requirement
MR	Major Requirement
PR	Program Requirement

Disclaimer: Major maps are only a suggested or recommended sequence of courses required in a program of study. Please contact your academic advisor for assistance in the application of specific coursework to a program of study and course selection and planning for upcoming semesters.