



## Health Science, Pre-Cardiovascular Technology

### Associate in Science

#### Seven Semester Pathway Academic Year 2025-2026

Please visit [www.smcme.edu/healthprograms](http://www.smcme.edu/healthprograms) for details on admission requirements

Pre-Acceptance Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
<a href="#">Sign Up and Complete Mandatory Program Information Session</a>						
FIGS 102	Intro to Healthcare Professions				1	
*ENGL 100	English Composition		ENGL 080		3	
*MATH 130	Technical Mathematics		MATH 040		3	
*BIOL 132	Anatomy & Physiology I with Lab		MATH 040	ENGL 100 or ENGL 101	4	
<b>Pre-Acceptance Semester 2</b>						
*BIOL 138	Anatomy & Physiology II with Lab		BIOL 132		4	
ENGL 115	Introduction to Literature		ENGL 100 or ENGL 101		3	
*PHYS 110	Technical Physics with Lab			MATH 040	4	
HLTH 155	Pharmacology		BIOL 132	BIOL 138	3	
<b>Acceptance into Cardiovascular Technology</b>						
<b>Acceptance Pre-Semester (Spring)</b>						
CARD 100	Introduction to Cardiovascular Technology		ENGL 100 or ENGL 101, BIOL 132, BIOL 138		3	
<b>Semester 1</b>	<b>Requirement</b>	<b>Recommended</b>	<b>Prerequisites</b>	<b>Corequisites</b>	<b>Credits</b>	<b>My Plan</b>
CARD 105	Medical Instrumentation		CARD Program Acceptance		3	
CARD 115	Electrocardiogram Interpretation		BIOL 138		3	
CARD 120	Vascular Imaging and Pathology		CARD Program Acceptance	CARD 100, CARD 105, CARD 125, HLTH 155, PHYS 110	3	
CARD 125	Clinical Practicum I		BIOL 138, CARD Program Acceptance	CARD 100, CARD 105, CARD 120	1	
PSYC 100	Introduction to Psychology			ENGL 080	3	
	Fine Arts or Humanities Elective		See course prerequisites	See course corequisites	3	
<b>Semester 2</b>						
CARD 140	Radiation Safety in Invasive Cardiology	Invasive Cardiology Option	CARD 120	CARD 150, CARD 155	1	
CARD 160	Cardiovascular Physiology and Pathophysiology I		BIOL 138, CARD 100, CARD 105, CARD 120	CARD 115, CARD 150, CARD 155 or CARD 115, CARD 170	3	
CARD 150 OR CARD 165	Invasive Cardiovascular Tech I Cardiovascular Physics and Instrumentation	Invasive Cardiology Option Echocardiography Option	CARD 100, CARD 105, CARD 120, HLTH 155, PHYS 110 PHYS 110	CARD 115, CARD 155 CARD 170	3	
CARD 155 OR CARD 170 AND CARD 171	Invasive Cardiovascular Tech Lab I Echocardiography I Echocardiography I Lab	Invasive Cardiology Option Echocardiography Option Echocardiography Option	CARD 100, CARD 105, CARD 120, HLTH 155, PHYS 110 CARD 100, CARD 105, CARD 120, BIOL 138	CARD 115, CARD 150 CARD 115, CARD 165, CARD 171 CARD 165, CARD 170	1 3 1	
CARD 190	Clinical Hemodynamics	Invasive Cardiology Option	CARD 100, CARD 105, CARD 120, MATH 130, PHYS 110	CARD 115, CARD 150, CARD 155, CARD 160	2	
<b>Summer</b>						
CARD 175	Clinical Practicum II		CARD 115, CARD 125, CARD 160, HLTH 155 and either CARD 150 & 155 or CARD 165 & 170		4	
<b>Semester 3</b>						
CARD 210	Cardiovascular Physiology and Pathophysiology II		CARD 160		3	
CARD 225	Clinical Practicum III		CARD 175		6	
CARD 200 OR CARD 220	Invasive Cardiovascular Tech II Echocardiography II	Invasive Cardiology Option Echocardiography Option	CARD 150, CARD 155 CARD 165, CARD 170		3	
<b>Semester 4</b>						
CARD 275	Clinical Practicum IV		CARD 225		12	
<b>Total Credits</b>					<b>82</b>	

\*Prerequisite course for the Cardiovascular Technology Program. A grade of C (not C-) or better is required.

[Advice on Choosing Electives](#)

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### **Cardiovascular Technology Admission Requirements**

COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL 100	English Composition	ENGL 080		3	
BIOL 132	Anatomy & Physiology I & Lab	MATH 040	ENGL 100 or ENGL 101	4	
BIOL 138	Anatomy & Physiology II & Lab	BIOL 132		4	
MATH 130	Technical Mathematics	MATH 040		3	
PHYS 110	Technical Physics with Lab		MATH 040	4	

### **Other/Core Requirements (Students can take these prior to acceptance to Cardiovascular Technology)**

COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL 115	Introduction to Literature	ENGL 100 or ENGL 101		3	
FIGS 102	Freshman Interest Group Elective Intro to Healthcare Professions			1	
	Fine Arts or Humanities Elective			3	
HLTH 155	Pharmacology	BIOL 105 or BIOL 132	BIOL 138 (if BIOL 132)	3	
PSYC 100	Introduction to Psychology		ENGL 080	3	

### **Major Required Courses**

COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
CARD 100	Introduction to Cardiovascular Technology	ENGL 100 or ENGL 101, BIOL 132, BIOL 138		3	
CARD 105	Medical Instrumentation	CARD program acceptance		3	
CARD 115	Electrocardiogram (ECG) Interpretation	BIOL138, CARD program acceptance		3	
CARD 120	Vascular Imaging and Pathology	CARD program acceptance	CARD 100, CARD 105, CARD 125, HLTH 155, PHYS 110	3	
CARD 125	Clinical Practicum I	BIOL138, CARD program acceptance	CARD 100, CARD 105, CARD 120	1	
CARD 160	Cardiovascular Physiology and Pathophysiology I	BIOL 138, CARD 100, CARD 105, CARD 120	CARD 115, CARD 150, CARD 155 OR CARD 115 & CARD 170	3	
CARD 175	Clinical Practicum II	CARD 115, CARD 125, CARD 160, HLTH 155 AND either CARD 150 & 155 OR CARD 165 & 170		4	
CARD 210	Cardiovascular Physiology and Pathophysiology II	CARD 160		3	
CARD 225	Clinical Practicum III	CARD 175		6	
CARD 275	Clinical Practicum IV	CARD 225		12	

### **Option 1: Invasive Cardiovascular Technology**

CARD 140	Radiation Safety in Invasive Cardiology	CARD 120	CARD 150, CARD 155	1	
CARD 150	Invasive Cardiovascular Tech I	CARD 100, CARD 105, CARD 120, HLTH 155, PHYS 110	CARD 115, CARD 155	3	
CARD 155	Invasive Cardiovascular Tech Lab I	CARD 100, CARD 105, CARD 120, HLTH 155, PHYS 110	CARD 115, CARD 150	1	
CARD 190	Clinical Hemodynamics	CARD 100, CARD 105, CARD 120, MATH 130, PHYS 110	CARD 115, CARD 150, CARD 155, CARD 160	2	
CARD 200	Invasive Cardiovascular Tech II	CARD 150, CARD 155		3	

### **Option 2: Echocardiography Cardiovascular Technology**

CARD 165	Ultrasound Physics & Instrumentation	PHYS 110	CARD 170	3	
CARD 170	Echocardiography I	BIOL 138, CARD 100, CARD 105, CARD 120	CARD 115, CARD 165, CARD 171	3	
CARD 171	Echocardiography I Lab	BIOL 138, CARD 100, CARD 105, CARD 120	CARD 165, CARD 170	1	
CARD 220	Echocardiography II	CARD 165, CARD 170		3	