



Liberal Studies, Pre-Cardiovascular Technology (Echocardiography Option) Associate in Science

Seven-Semester Pathway - Academic Year 2019-2020

Please visit www.smccme.edu/healthprograms for details on admission requirements

Pre-Acceptance Semester 1	Requirement	Prerequisites	Corequisites	Credits	My Plan
FIGS-102	Freshman Interest Group- Health			1	
CHEM-120	General Chemistry I with Lab	ENGL-090, ENGL-095	MATH-130 or MATH-140	4	
ENGL-100	English Composition	ENGL-090, ENGL-095		3	
MATH-140	College Algebra	MATH-050		3	
BIOL-132	Anatomy & Physiology I with Lab	MATH-030	ENGL-100	4	
Pre-Acceptance Semester 2					
BIOL-138	Anatomy & Physiology II with Lab	BIOL-132		4	
ENGL-115	Introduction to Literature	ENGL-100		3	
MATH-155	Statistics	MATH-030		3	
PHYS-110	Technical Physics with Lab		MATH-030	4	
HLTH-155	Pharmacology	BIOL-132	BIOL-138	3	
Acceptance into Cardiovascular Technology					
Semester 1	Requirement	Prerequisites	Corequisites	Credits	My Plan
CARD-100	Introduction to Cardiovascular Technology	CARD Program Acceptance		3	
CARD-105	Medical Instrumentation	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	BIOL-138	CARD-100, CARD-105, CARD-120, HLTH-155, PHYS-110	1	
PSYC-100	Introduction to Psychology		ENGL-090, ENGL-095	3	
Semester 2					
CARD-115	Electrocardiogram Interpretation	BIOL-138		3	
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	2	
CARD-180	Rehabilitation and Prevention	CARD Program Acceptance		3	
CARD-165	Cardiovascular Physics and Instrumentation	PHYS-110	CARD-170	3	
CARD-170	Echocardiography I	CARD-100, CARD-105, CARD-120, BIOL-138	CARD-115, CARD-165	3	
Summer					
CARD-175	Clinical Practicum II	CARD-115, CARD-125, CARD-160, HLTH-155 and either CARD-150 & 155 or CARD-165 & 170		4	
Semester 3					
CARD-210	Cardiovascular Physiology and Pathophysiology II	CARD-160		2	
CARD-225	Clinical Practicum III	CARD-175		6	
CARD-220	Echocardiography II	CARD-165, CARD-170		3	
	Fine Arts or Humanities Elective	See course prerequisites	See course corequisites	3	
Semester 4					
CARD-275	Clinical Practicum IV	CARD-225		12	



Liberal Studies (Cardiovascular Technology)

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Cardiovascular Technology Admission Requirements					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL-100	English Composition	ENGL-090, ENGL-095		3	
BIOL-132	Anatomy & Physiology I & Lab	MATH-030	ENGL-100	4	
BIOL-138	Anatomy & Physiology II & Lab	BIOL-132		4	
MATH-140	College Algebra	MATH-050		3	
CHEM-120	General Chemistry I with Lab	ENGL-090, ENGL-095	MATH-130 or 140	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		3	
FIGS-102	Freshman Interest Group-Health			1	
	Fine Arts or Humanities Elective			3	
HLTH-155	Pharmacology	BIOL-105 or BIOL-132	BIOL-138 (if BIOL-132)	3	
MATH-155	Statistics	MATH-030		3	
PHYS-110	Technical Physics with Lab		MATH-030 or higher	4	
PSYC-100	Introduction to Psychology		ENGL-090, ENGL-095	3	
Major Required Courses					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
CARD-100	Introduction to Cardiovascular Technology	CARD program acceptance		3	
CARD-105	Medical Instrumentation	CARD program acceptance		3	
CARD-115	Electrocardiogram (ECG) Interpretation	BIOL138		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-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	2	
CARD-175	Clinical Practicum II	CARD-115, CARD-125, CARD-160, HLTH-155 AND either CARD-150 & 155 OR CARD-165 & 170		4	
CARD-180	Rehabilitation and Prevention	CARD program acceptance		3	
CARD-210	Cardiovascular Physiology and Pathophysiology II	CARD-160		2	
CARD-225	Clinical Practicum III	CARD-175		6	
CARD-275	Clinical Practicum IV	CARD-225		12	
Option 1: Invasive Cardiovascular Technology					
CARD-150	Invasive Cardiovascular Tech I	CARD-100, CARD-105, CARD-120, HLTH-155, PHYS-110	NURS-100, CARD-115, CARD-155	3	
CARD-155	Invasive Cardiovascular Tech Lab I	CARD-100, CARD-105, CARD-120, HLTH-155, PHYS-110	NURS-100, CARD-115, CARD-150	1	
CARD-200	Invasive Cardiovascular Tech II	CARD-150, CARD-155		3	
NURS-100	Dosage Calculation	MATH-030	MATH-140 or higher	1	
Option 2: Echocardiography Cardiovascular Technology					
CARD-165	Cardiovascular Physics & Instru	PHYS-110	CARD-170	3	
CARD-170	Echocardiography I	BIOL-138, CARD-100, CARD-105, CARD-120	CARD-115, CARD-165	3	
CARD-220	Echocardiography II	CARD-165, CARD-170		3	