



Southwestern Michigan College

Associate in Applied Science in Cardiovascular Technology

Cardiovascular Technology

Invasive cardiovascular technology is a growing branch of medical technology that involves the use of minimally invasive procedures to diagnose and treat heart and vascular conditions. Cardiovascular technology is a growing field that needs workers who can assist the cardiologist during invasive cardiac procedures like cardiac catheterization, angioplasty, stenting, and more. This program will equip students with all the skills and knowledge that will help them excel in the field. Cardiovascular Technologist median annual salary is \$70,270.

Licensing

This program is offered in conjunction with the Educational Partners in Collaboration (EPiC) Consortium. After completing pre-requisite courses, students can apply to the Cardiovascular Technology program through which they'll complete online courses specific to cardiovascular technology. After completing all courses successfully, students will graduate with an Associate in Applied Science in Cardiovascular Technology from SMC. Graduates of the program are eligible to sit for the National Board Certification Examination to become a Registered Cardiovascular Invasive Specialist (RCIS) administered by Cardiovascular Credentialing International (CCI).

Prerequisites

Course ID	Course
ENGL 103	Freshman English 2
BIOL 110	Human Biology
MATH 127 or MATH 128	College Algebra, Contemporary Math
HEED 101	Medical Terminology

- Students are required to take all pre-requisite courses. No course waivers will be accepted.
- Dual Enrolled students are required to follow guidelines and criteria for the year they become degree seeking students.
- AP course or courses where the test(s) has been taken and passed may be accepted. CLEP is not accepted. Please refer to page 4 for scores and grades.
- A minimum grade of a C is required in all general education courses, except for BIOL 110.
- A student must receive a "B-" (2.67) or above in BIOL 110.
- Students must have a minimum of a 2.5 pre-requisite GPA in order to be eligible to apply.
- A student may only attempt pre-requisite courses two times. Only the most recent attempt on pre-requisites will be considered for admission requirements. If attempts are 5 years or older, the student can retake the courses and be considered for admission. An attempt includes "W" withdrawals.
- Students will not be eligible for admission to the Radiography Technology program if they attempt any pre-requisite course more than twice. This includes attempts at other institutions.

- If a student has attempted a higher-level pre-requisite class(es) (i.e. MATH 130, CHEM 101), that may be the class(es) that will be used to calculate the pre-requisite GPA. The pre-requisite attempt rule also applies to these courses.

Program Courses

Fall I	Spring I	Summer	Fall II
Cardiovascular Anatomy and Physiology	Cardiovascular Interventional Procedures	Cardiovascular Pharmacology	Cardiovascular Advanced Interventional Procedures
Orientation to Patient Care	Radiation Physics and Protection	Intro to Electrophysiology	Cardiovascular Pathophysiology
Cardiovascular Diagnostic Procedures	Clinical Practicum I	Clinical Practicum II	Critical Care Applications
Rhythm and ECG			Clinical Practicum III
Hemodynamics			CVT Board Preparation

Non-Sequential Class

Additional courses within the program may be taken non-sequential but are required for degree completion. These include EDUC 120, PSYC 101 or SOCI 201.

Cardiovascular Technology Program Admission Deadlines

Timeline	Planned Admission for Summer
Deadline for Application to the Nursing and Health Services Office	June 1st
Acceptance	You will be notified of Acceptance to the Radiography Technician program by July 1st
Required Orientation Day	Online Orientation in August (Exact time and date TBD)

This is a competitive admission process. Points are awarded based on pre-requisite GPA. Limited seats each admission cycle. Due to the competitive nature of the Cardiovascular Technology program, students who have completed all prerequisites courses prior to the application deadline will be given priority consideration for Cardiovascular Technology program admission.

EPiC consortium admits students based on available clinical sites each Fall.

All students must complete a SMC Admission Application and have met all the admission requirements of both SMC and the Cardiovascular Technology program prior to applying to the Cardiovascular Technology program.

Students taking pre-requisite classes at other institutions

- Students may be given conditional admittance into the Cardiovascular Technology program if currently enrolled in prerequisite courses at another institution. However, priority admission will be given to students who have completed all their prerequisite courses.
- The student must provide proof of enrollment in the prerequisite courses. Proof of enrollment must also include the expected course completion date.
- The student must provide an official transcript within two weeks of course completion. Failure to

provide an official transcript within two weeks of course completion may result in forfeiture of the student's seat in the Cardiovascular Technology program.

High School and Dual Enrolled Students

- High school and dual enrolled students are eligible to apply to the program as long as all of the pre-requisite and GPA requirements are met, and they are 18 years of age by the start of the clinical courses.
- If you are a Dual Enrolled or Early Middle College student, you **must** have your transcripts from the college you were dual enrolled in sent to Southwestern Michigan College. Having the college courses listed on your high school transcripts is not accepted.

Calculating your Total GPA Points for the Cardiovascular Technology Program

Course ID	Credits	Multiply	GPA of Course	Equals
BIOL 110	4	X		=
HEED 101	3	X		=
MATH 127 or MATH 128	4	X		=
ENGL 103 or 103W	3	X		=
Total Pre-Req Credits	14		Add all Points	

Take the number equivalent to the letter grade you earned in the class (see grading scale below), multiply that number by the number of credit hours for the class. Add the total class points you earned and then divide that number by the total number of pre-requisite credit hours (**14**). This number will be your pre-requisite GPA.

GPA-Letter Equivalencies

Letter	GPA
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0.00
I *Incomplete	0.00
W *Withdrawal	0.00

Course Equivalencies

MATH 127 or MATH 128:

Alternative math courses for the program:

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MATH 129, 130, 141, 142, 201, 203, 205 equivalencies

MATH 150, 153, 154 are not acceptable pre-requisite courses

Advanced Placement Conversion

Score Range	Grade
5	A
4	A
3	B
2	C

MATH 130

Grade	Equiv in MATH 127
A	A
B	A
C	B

MATH 141+

Grade	Equiv in MATH 127
A	A
B	A
C	B

Disclaimers

- Students with approved status and/or benefits through U.S. Citizenship and Immigration Services (USCIS) are responsible for being aware of their status and/or benefits and any changes that may affect it. Southwestern Michigan College is not liable for any problems that may occur when applying for examination, licensing, and employment after you complete the program.
- Please note the information in this packet is subject to change without notice, please meet with your advisor if you have any questions. Students are responsible to adhere to any changes made that may affect them.