

Program Information

The Biomedical (BMED) Technology one-year certificate program prepares students for entry-level positions in the biomedical device and products industry. Graduates will work in manufacturing, product development and testing. Many of the courses transfer to four-year institutions. Classes include specific biomedical coursework, as well as writing, statistics, and a field experience with a biomedical company. For additional information about our biomedical programs, visit our website at: <http://www.anokaramsey.edu/BMED>.

Program Goals

By completing this certificate, students will achieve the following learning goals:

1. Demonstrate an understanding of trends, size, and scope of the medical device industry;
2. Demonstrate proficiency in oral and written communication, interpersonal skills, and critical thinking/problem solving;
3. Demonstrate an understanding of the processes involved in the design, development and manufacture of medical devices;
4. Demonstrate knowledge of various regulations and agencies involved in regulatory processes specific to the medical device industry; and
5. Demonstrate application of classroom knowledge to industry field experience.

General Information

College-level competence in English, writing, mathematics, and computer competency should be acquired before entering the BMED programs. All BMED program requirements are offered at the Coon Rapids Campus.

Completion Requirements

- A minimum of 12 semester credits in courses numbered 1000 or above must be completed at ARCC.
- A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC.
- A minimum grade of C must be earned in all program requirements.
- All program requirements must be completed at ARCC.
- All course requirements must be complete before a certificate will be awarded.
- Students must complete a Certificate Application. Certificate Applications are available online at AnokaRamsey.edu/resources/forms/ under Records and Registration. Alternative formats of the form are available at the Records and Registration Office per request.
- The requirements of this program are subject to change without notice.

Program Requirements: 13 credits

- BMED 1100 Introduction to Biomedical Devices and Industry.. 2
- BMED 2100 Design and Manufacturing in the Medical Device Industry..... 3
- BMED 2200 Introduction to Medical Device Regulations/Ethics 3
- BMED 2300 Introduction to Quality Assurance..... 3
- BMED 2600 Fundamentals of Dimensional Metrology..... 2

Additional Requirements: 6 credits

- BIOL 1102 Medical Terminology..... 2
- BIOL 1104 The Human Body–Structure and Function..... 4

General Education/MnTC Requirements: 10-11 credits

- ENGL 1104 **OR** ENGL 1120 **♦ OR** ENGL 1121 **♦** 3-4
- CMST 1110 **OR** CMST 2215 **OR** CMST 2220 3
- MATH 1114 **♦** 4

Program Sequence:

The sequence that follows is suggested for full-time students. Part-time students will need more time to complete this program; many courses are offered in the evening.

	Fall Semester	Spring Semester
1st YEAR	BMED 11002	BIOL 1102.....2
	BMED 2300.....3	BMED 2200.....3
	BIOL 1104.....4	BMED 2600.....2
	BMED 2100.....3	MATH 11144
	ENGL 1104 or 1120/1121...3-4	CMST 1110, 2215, or 2220...3
	TOTAL15-16	TOTAL 14

♦ Course has prerequisite - see course schedule or catalog description.

^ Course requires Instructor permission.

NOTE: You are encouraged to contact an academic advisor at 763-433-1230 for course planning assistance and information about transfer credit evaluation and transfer options.