

## Program Information

The Biomedical (BMED) Core certificate program is designed for students with strong transferrable work experience and/or previous academic coursework in the biomedical industry. The Biomedical Core certificate complements previous work to prepare students for transition into positions in the biomedical device industry. Graduates will work in manufacturing, product development and quality assurance. Classes include specific biomedical course work in good manufacturing practices (GMP), ISO 13485 and 9001. Most classes are offered in the evening and will be delivered as either face-to-face, hybrid or fully online. For additional information about our biomedical programs, visit our website at: <http://www.anokaramsey.edu/academics/departments-faculty/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 an understanding of the processes involved in the design, development and manufacture of medical devices;
3. Demonstrate knowledge of various regulations and agencies involved in regulatory processes specific to the medical device industry; and
4. 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 courses requirements must be complete before a certificate will be awarded.
- Students must complete a Certificate Application. Certificate Applications are available online, in the Office of Records & Registration, and in the Advising Center. Submit a completed form to the Office of Records & Registration.
- The requirements of this program are subject to change without notice.

## Program Requirements: 16 credits

- ☐ BIOL 1102 Medical Terminology ..... 2
- ☐ BMED 1100 Introduction to Biomedical Devices and Industry.. 3
- ☐ BMED 2100 Design and Manufacturing in the Medical Device Industry..... 3
- ☐ BMED 2200 Introduction to Medical Device Regulations and Ethics ..... 3
- ☐ BMED 2300 Introduction to Quality Assurance..... 3
- ☐ BMED 2500 Introduction to Documentation/Configuration Management ..... 3
- OR**
- ☐ BMED 2520 ♦ Technical Writing for Regulated Industries ..... 3

For more information about our program graduation rates, the median debt of students who completed the program, and other important information, please visit the "Gainful Employment Disclosure Report" at: [http://www.minnstate.edu/admissions/ge/anokaramsey/GEDT\\_0152\\_8222\\_1/gedt.html](http://www.minnstate.edu/admissions/ge/anokaramsey/GEDT_0152_8222_1/gedt.html).

## 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
1 <sup>st</sup> YEAR	BMED 1100 ..... 2	BIOL 1102..... 2
	BMED 2100 ..... 3	BMED 2200..... 3
	BMED 2300..... 3	BMED 2500 or 2520 ..... 3
	BMED 2500 or 2520 ..... 3	<b>TOTAL ..... 5-8</b>
	<b>TOTAL .....8-11</b>	

♦ 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.