

## Biomedical Technician

### One-Year Certificate Program

# 2008-2009

Program Core Requirements	15
Additional Career Requirements	6
General Education	<u>9-10</u>
Total Credits	30-31

**Program Information:** This 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 Web site at <http://www.AnokaRamsey.edu>.

**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; 5) demonstrate application of classroom knowledge to industry field experience.

**Program Admission:** To apply for admission to one of the Biomedical (BMED) Programs, submit the Application for Biomedical Programs to the Records and Registration Office. Applications are available in Counseling and Advising Services or the Records and Registration Offices on either campus. All BMED Program Core courses are offered at the Coon Rapids Campus. BMED Program Core courses are also offered at Inver Hills and Normandale Community Colleges.

**General Information:** College-level competence in English, writing, and mathematics; and computer competency should be acquired before entering the BMED programs.

**Developmental Courses:** Some students may need preparatory courses in the areas of English or mathematics. Courses numbered below 1000 will not apply toward this certificate program.

Program Core Requirements	15 credits	General Education Requirements	9--10 credits
BMED 1100 Introduction to Biomedical Devices/Industry	2	ENGL 1121 <sup>♦</sup> College Writing & Critical Reading OR ENGL 1104 <sup>♦</sup> Technical Writing	3-4
BMED 2100 Design & Manufacturing in the Medical Device Industry	3	MATH 1110 <sup>♦</sup> Introductory Statistics I	3
BMED 2200 Introduction to Medical Device Regulations/Ethics	3	SPCH 1110, 2215, or 2220	3
BMED 2300 Intro to Quality Assurance	3	<b>Notes:</b> (1) A minimum cumulative grade point average (GPA) of 2.0 in courses numbered 1000 or above at ARCC. (2) A minimum grade of C must be earned in all Program Core requirements. (3) All Program Core requirements must be completed through Anoka-Ramsey Community College.	
BMED 2297* Field Experience & Seminar	4		
<b>Additional Career Requirements</b>	<b>6 credits</b>	<sup>♦</sup> Course has a prerequisite.	
BIOL 1102 Medical Terminology	2		
BIOL 1104 The Human Body	4		
*It is recommended that all biomedical courses be completed prior to taking BMED 2297 Field Experience & Seminar. Permission of Program Director required.			

**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	
BMED 1100 Introduction to Biomedical Devices/Industry	2	BIOL 1102 Medical Terminology	2
BMED 2200 Introduction to Medical Device Regulations/Ethics	3	BMED 2300 Quality Assurance	3
BIOL 1104 Human Body	4	BMED 2297 Field Experience & Seminar	4
BMED 2100 Design & Manufacturing in the Medical Device Industry	3	MATH 1110 Introductory Statistics	3
ENGL 1104 <sup>♦</sup> Technical Writing OR		SPCH 1110, 2215, or 2220	<u>3</u>
ENGL 1121 College Writing & Critical Thinking	<u>3-4</u>	TOTAL	15
TOTAL	15-16		