

Biotechnology Technician Certificate – Narrative & Grid

Author/Originator: Benjamin Benton & Margaret Crowley-Murray



This workforce solution is partially funded by a grant awarded by the U.S. Department of Labor, Employment and Training Administration, TAACCCT grant agreement # TC-22505-11-60-A-25. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. Massachusetts Community Colleges are equal opportunity employers. Adaptive equipment available upon request for persons with disabilities.

This work is licensed under a Creative Commons Attribution 3.0 Unported License http://creativecommons.org/licenses/by/3.0



BIOTECHNOLOGY TECHNICIAN CERTIFICATE

Program Goals

This certificate program provides students with an overview of the science of biotechnology as well as the technical skills necessary for employment in the industry.

Student Learning Outcomes

Upon completion of the program graduates will be able to:

- Understand the fundamental scientific principles of biotechnology.
- Demonstrate the ability to manipulate and analyze data.
- Demonstrate the ability to work effectively in a laboratory setting.
- Utilize critical thinking and scientific methodology.
- Demonstrate the application of scientific knowledge to common biotechnological techniques.
- Demonstrate effective written and verbal communication.
- Demonstrate math competency.
- Demonstrate the ability to be an effective team leader.

Admissions Process

Admissions inquiries should be directed to <u>admissions@qcc.mass.edu</u>. Prospective students may apply to the program of their choice by following the enrollment steps at the following link: <u>http://www.qcc.edu/pages/Enrollment_Steps.html</u>.

Admissions Requirements

High School Diploma or GED/High School Equivalency

Students should note that some first semester courses carry minimum prerequisites. Refer to the program grid.

CORI, SORI, Finger Printing & Drug Testing

A Criminal Offenders Record Information (CORI) and Sexual Offenders Record Information (SORI) are not required. Finger printing and drug testing are not required.

Additional Cost

See page 30 for program fees for this program. (Note: Not all programs have program fees).

Location

This program may be completed at the QCC Worcester campus except for BTT 201 which is offered only at Abbvie Bioresearch Center. Some laboratory classes may be completed at local laboratory facilities.

This program may be completed face-to-face.

Technical Performance Standards

See page 17 for technical standards for this program. (Note: Not all programs have technical performance standards).

Credit for Prior Learning

Students enrolled in this program may be able to earn academic credit for prior learning. Please contact the office of Career Placement Services at <u>careerservices@qcc.mass.edu</u>, 508.854.4439, Room 272 A.

Career Outlook

Please consult The Massachusetts Career Information System at http://masscis.intocareers.com/ or The Occupational Outlook Handbook at http://www.bls.gov/oco/ for specific occupational information. The CIP code for this program is 15.0401.

Transfer Articulations & Opportunities

Prospective students may learn more about transfer articulation agreements at the following link: <u>http://www.qcc.mass.edu/transfer/ArticPathways.html</u>. More information regarding transfer opportunities is available at: <u>http://www.qcc.mass.edu/transfer</u>.

Program Contact: biotechnology@qcc.mass.edu

Additional Program Information: For the most up to date information, go to the program website at <u>www.QCC.edu</u>.

BIOTECHNOLOGY TECHNICIAN CERTIFICATE (Program Code: BI)

Course Title	Course #	Offered	Plan to Take	Grade	Credits	Prerequisites
Semester 1						
Cell Biology	BIO 259	F/S			4	BIO 107
General Chemistry I	CHM 105	F/S/SU			4	CHM 090 or one year of High School Chemistry, MAT 099 or approp place score
Introduction to Microcomputer Applications	CIS 111	F/S/SU			3	
Semester 2						
Molecular Biology	BIO 260	F/S			4	BIO 107
General Microbiology	BIO 231	F/S			4	BIO 107
Semester 3						
Techniques in Biotechnology	BTT 201	SU			6	BIO 259, BIO 260, BIO 231
Total Credits Required					25	