

BIOMANUFACTURING TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE



Plan of Study

3BIO-MFG

First Year

First Term

Select one of the following: 3

MATH 1314	College Algebra	
MATH 1316	Plane Trigonometry	
MATH 1324	Mathematics for Business and Social Sciences	
MATH 1325	Calculus for Business and Social Sciences	
MATH 1342	Elementary Statistical Methods (Statistics)	
MATH 1350	Mathematics for Teachers I (Fundamentals of Mathematics I)	

BITC 1411	Introduction to Biotechnology	4
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Select one of the following: 4

BIOL 1306 & BIOL 1106	Biology for Science Majors I (lecture) and Biology for Science Majors I (lab)	
BIOL 2301 & BIOL 2101	Anatomy and Physiology I (Lecture) and Anatomy and Physiology I (Lab)	
BITC 1191	Special Topics in Biological Technology/ Technician	1

Credits 12

Second Term

Select one of the following: 4

CHEM 1305 & CHEM 1105	Introductory Chemistry I (lecture) and Introductory Chemistry I (lab)	
CHEM 1311 & CHEM 1111	General Chemistry I (lecture) and General Chemistry I (lab)	

Select one of the following: 4

BIOL 2320 & BIOL 2120	Microbiology for Health Science Majors (lecture) and Microbiology for Health Science Majors (lab)	
BIOL 2321 & BIOL 2121	Microbiology for Science Majors (lecture) and Microbiology for Science Majors (lab)	
BITC 1340	Quality Assurance for the Biosciences	3

BITC 1402	Biotechnology Laboratory Methods and Techniques	4
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Credits 15

Summer Year One Term

ENGL 1301	Composition I	3
BCIS 1305	Business Computer Applications	3

Credits 6

Second Year

First Term

BITC 2411	Biotechnology Laboratory Instrumentation	4
BITC 2277	Product Development to Commercialization	2

Select one of the following: 3

Language, Philosophy and Culture (Humanities)

Creative Arts (Fine Arts)

Social and Behavioral Sciences	3
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Credits 12

Second Term

BITC 2431	Cell Culture Techniques	4
BITC 2445	Medical Biotechnology	4
BITC 2475	Upstream and Downstream Manufacturing of Biologics	4

BITC 2386 or BITC 2387	Internship - Biotechnology Laboratory Technician Capstone or Internship - Biotechnology Laboratory Technician Experience	3
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Credits 15
Total Credits 60

Capstone Experience: BITC 2386 Internship - Biotechnology Laboratory Technician Capstone or BITC 2387 Internship - Biotechnology Laboratory Technician Experience.