

STUDENT NAME _____ DATE _____

Biotechnology A.A.S. at Montgomery College to B.S. or B.T.P.S. IN BIOTECHNOLOGY AT UMUC

This worksheet is designed to help you plan and track your progress toward your degrees. For full course descriptions, please refer to the current undergraduate *Catalog*.

Courses taken at Montgomery College

Changes in recommended courses may affect other elements of the degree plan. Lower level equivalents of UMUC upper level courses fulfill content requirements but not upper-level minimum credit requirements

 UMUC
Equivalent
Course

UMUC GenEd Requirement	GENERAL EDUCATION REQUIREMENTS (GenEd) (26 credits)	
English Writing GenEd	EN 101 Techniques of Reading and Writing I (3)	
WRTG 101 Writing GenEd	EN 102 or EN 109 (3) <i>English foundation course</i>	WRTG 101
Mathematics GenEd	MA 110 Survey of College Mathematics (3) <i>Or more advanced math. Mathematics foundation course</i>	MATH 106
Speech/writing GenEd	SP 108 or SP 112 (3) <i>Speech foundation course</i>	
First arts and humanities GenEd	AR 107, AR 108, or any HS (3) <i>Recommended arts or humanities distribution course</i>	
First social and behavioral sciences GenEd	PS 101, PY 102, or SO 101 (3) <i>Recommended behavioral/social sciences distribution course</i>	
Biological and physical science with lab GenEd	BI 107 Principles of Biology I (4)	BIOL 103
Biological and physical science GenEd	BT 213 Nucleic Acid Methods (4)	
INTERDISCIPLINARY AND EMERGING ISSUES (1 credit)		
Health foundation course (1)		
PROGRAM REQUIREMENTS (29-30 credits)		
◆ BI 203 Microbiology (4)		◆ BIOL 230
◆ BI 209 General Genetics (4)		◆ BSCI 222
◆ BT 101 Introduction to Biotechnology (2)		◆
◆ BT 117 Cell Culture and Cell Function (3)		◆
◆ BT 200 Protein Biotechnology (4)		◆
BT 204 Basic Immunology and Immunological Methods (4) <i>Required related coursework</i>		
CH 101 Principles of Chemistry I (4) <i>Required related coursework</i>		CHEM 103
CH 120 or CH 203 (4-5) <i>Required related coursework</i>		CHEM 104 or CHEM 233
ELECTIVES (5 credits)		
BT 115, BT 221, BT 235, CA 120, CH 102, CH 204, or MA elective (5) <i>Required related coursework</i>		
Credits transferred: 61-62 credits		
Note: Up to 70 credits may be transferred from Montgomery College - meet with a UMUC adviser to discuss additional MC credits		

SEQUENCE at UMUC

*Courses are listed in the order in which students should take them.
Changes in courses and order may affect other elements of the degree plan.*

NOTES

ADDITIONAL REQUIRED GENERAL EDUCATION COURSES FOR DEGREE (6 credits) If requirement is completed in degree at community college, these credits may be used for electives		
Second arts and humanities GenEd	PHIL 140 or foreign language course (3) <i>Or other second arts/humanities GenEd course</i>	
Second social and behavioral sciences GenEd	ANTH 344 (3) <i>Or other social/behavioral science course from a second discipline</i>	UL
EMERGING ISSUES (7 credits)		
LIBS 150 (1) <i>GenEd course</i>		
IFSM 201 or CMST 303 (3) <i>First computing GenEd course</i>		
CMIS 111 (3) <i>Or other second GenEd computing course</i>		
ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (18 credits)		
WRTG 393 (3) <i>Or other upper-level advanced writing GenEd course</i>		UL
◆ BIOL 325 (3) <i>Required for major</i>		UL
◆ BIOL 350 or BIOL 356 (3) <i>Required for major</i>		UL
◆ BIOL 400 (3) <i>Required for major</i>		UL
◆ BIOL 320 (3) <i>Or other biological applications supplemental course (BIOL 334, 357, or additional 3-credit Co-op internship)</i>		UL
◆ BIOL 328 (3) <i>Or other specialized topics supplemental course or courses equaling 3-credits (BIOL 356, 360, 362, 398A, 398J, 398K, 398P, 422, 434, 438, and NSCI 301)</i>		UL
INTERNSHIP FOR MAJOR (6 credits)		
◆ 6-credit internship through Cooperative Education <i>Required for major. Courses numbered 486 A or B in any discipline, but learning proposal must show relationship to biotechnology major. Note: additional internships may be used in supplemental credits but maximum total internship credits in degree is 15.</i>		UL ----- UL
MINOR OR ELECTIVES (15 credits, at least 9 credits upper-level for minor)		
See requirements of individual minor.		UL UL UL UL
ADDITIONAL ELECTIVES (6-7 credits)		
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework.		UL UL
TOTAL: 120 CREDITS		
CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS See catalog for overview of all requirements.		
<input type="checkbox"/> 30 credits at UMUC, including at least half of the major and minor and 15 upper level credits. <input type="checkbox"/> 45 upper-level credits, including half the credit for the major and the minor. <input type="checkbox"/> All required courses <u>and</u> minimum number of credits for major and minor. <input type="checkbox"/> Prerequisites for major and minor courses, if needed.	<input type="checkbox"/> All General Education Requirements. <input type="checkbox"/> Grade of C or better in all courses for the major and minor. <input type="checkbox"/> Overall GPA of at least 2.0. <input type="checkbox"/> At least half the credit for the major earned through graded coursework. <input type="checkbox"/> Total 120 credits.	
NOTES:		