

MONTGOMERY COLLEGE AAS BIOTECHNOLOGY TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE BS or BTPS IN BIOTECHNOLOGY TRANSFER GUIDE

CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS See catalog for overview of all requirements.

- 30 credits at UMUC, including at least half of the major and minor and 15 upper-level credits.
- 45 upper-level credits, including half the credit for the major and for the minor
- All required courses <u>and</u> minimum number of credits for major and minor.
- Prerequisites for major and minor courses, if needed

- All General Education Requirements.
- Grade of C or better in all courses for the major and minor.
- Overall GPA of at least 2.0.
- At least half the credit for the major earned through graded coursework. Total 120 credits.

Prerequisites for major and minor courses, if needed.				
UMUC DEGREE REQUIREMENTS	MC COURSES	UMUC EQUIVALENCY	CREDITS FROM MC	CREDITS NEEDED AT UMUC
COMMUNICATIONS		Credits:	9	3
WRTG 101 or WRTG 101S Introduction to Writing (3)	ENGL 102 or ENGL 103	WRTG 101 or 293	3	
WRTG 293 (3) Or other 3-credit WRTG course except 288, 388, 486A, 486B. ENGL 102 and JOUR 201 apply	ENGL 101	WRTG	3	
COMM 202 (3) Or other communication, writing, or speech	COMM 108 or 112	SPCH 100 or SPCH	3	
WRTG 393 (3) Or other upper-level advanced writing				3UL
ARTS AND HUMANITIES	Credits:		3	3
HUMN 100 (3) Or other arts/humanities	Arts or Humanities Distribution	Arts & Humanities	3	
HIST 125 (3) Or any ARTH or HIST from a 2 nd discipline				3
BEHAVIORAL AND SOCIAL SCIENCES		Credits:	3	3
ECON 103 (3) Or other first behavioral/social science	Behavioral & Social Sciences Distribution	Behavioral & Social Sciences	3	
BEHS 103 (3) Or other behavioral/social science from a 2 nd discipline				3
BIOLOGICAL AND PHYSICAL SCIENCES		Credits:	8	0
Related science coursework with lab (4) Fulfills GenEd requirement~	BIOL 150	BIOL 103	4	
Related science coursework (3) Fulfills GenEd requirement~	CHEM 131	CHEM 103	4	
MATHEMATICS	Credits:		3	0
MATH 106 or higher-level math course (3)	MATH 110 Recom'd Mathematics Foundation	MATH 106	3	
INTERDISCIPLINARY OR EMERGING ISSUES		Credits:	0	7
LIBS 150 Introduction to Research (1)				1
IFSM 201 Concepts & Applications of Information Technology or CMST 301 Digital Media and Society (3)				3
CMIS 111 Social Networking and Cybersecurity Best Practices (3) Or another computing course appropriate to the academic major				3

Legend/Notes

- required course for the major or minor
- * course meets content requirement but not upper-level minimum
- UL UL stands for upper-level junior/senior courses and denotes the minimum upper-level credit that must be taken at UMUC for graduation ^ only 21 credits of vocational technical are permitted for transfer at UMUC
- ~Students seeking the BTPS or BS must complete all related science coursework including the 15 credit in the major before arriving at UMUC.

The BTPS is available only to students with the AAS from a community college with which UMUC has an articulation agreement.

Courses placed in the ELECTIVES/MINOR section may meet degree requirements depending on which course the student takes from the list of courses offered for the associate's degree. Any credit applied to the associate's degree must also meet UMUC's transfer credit policy.

UMUC DEGREE REQUIREMENTS	MC COURSES	UMUC EQUIVALENCY	CREDITS FROM MC	CREDITS NEEDED AT UMUC
BIOTECHNOLOGY MAJOR		Credits:	15	12
◆ General microbiology with lab (4)~	BIOL 210	BIOL 230	4	
◆ General genetics with lab (4)~	BIOL 220 or 222	BIOL 220 or 222	4	
◆ Biotechnology applications and techniques with lab (7)~	BIOT 120 & 200	BIOT	7	
◆ BIOL 325 Inquiries in Biological Science (3)				3UL
♦ BIOL 350 Molecular and Cellular Biology (3)				3UL
♦ BIOL 357 Bioinformatics (3)				3UL
◆ NSCI 301 Laboratory Management and Safety (3)				3UL
INTERNSHIP FOR MAJOR		Credits:	0	6
◆ BIOL 486B Workplace Learning in Biology (6) or other 6-credit internship through Workplace Learning 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 a maximum total internship credit in degree is 45.				6UL
CAPSTONE COURSE FOR MAJOR		Credits:	0	3
◆ BIOL 495 Current Trends and Applications in Life Sciences (3)	MUST BE TAKEN AT UMUC			3UL
ADDITIONAL REQUIREMENTS		Credits:	12-13	0
Related science coursework (3) May include any coursework related to biotechnology, including biotechnology, biochemistry, cell biology, chemistry, genetics, immunology, microbiology, molecular biology, physics, and virology courses~	BIOT 230	BIOT	4	
Related science coursework (3)~	CHEM 150 or 203	CHEM 104 or 233	4-5	
Related science coursework (4)~	BIOT 240	BIOT	4	
ELECTIVES/MINOR		Credits:	7	22-23
Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework.	BIOT 110	BIOT	2	
	Health Foundation	Elective	1	
See requirements of individual minor.	Elective	Elective	4	
Recommended electives: BMGT 317, FINC 331, SPCH 482				
Upper-Level Electives at UMUC Any Electives at UMUC				21UL 1-2
Total Minimum Credits Needed for Graduation: 120		Total Credits:	60-61	59-60