



MC ASSOCIATE OF APPLIED SCIENCE IN BIOTECHNOLOGY

Students transferring from MC with a conferred Associate of Arts or Associate of Science degree will have the General Education Requirement (Gen Ed) block of courses met at UMGC (A.A.S. degrees not included). See community college advisor for course sequencing.



**CATALOG YEAR:
2022-2023**

UMGC BACHELOR OF SCIENCE IN BIOTECHNOLOGY OR BACHELOR OF TECHNICAL AND PROFESSIONAL STUDIES IN BIOTECHNOLOGY

<http://www.umgc.edu/transfers-and-credits/community-college-alliances/maryland-community-college-alliances.cfm>

Degree requirements may change based on date of initial enrollment at UMGC.

CREDITS	MONTGOMERY COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	ENGL 101 <i>or</i> ENGL 101A recom'd elective ^	WR TG elective (Gen Ed Communications)
3	MATH 117, MATH 120, <i>or</i> higher Mathematics Foundation req	STAT 200, MATH 106, <i>or</i> higher MATH (Gen Ed Mathematics)
4	BIOL 150 Natural Sciences Distribution w/ Lab Gen Ed req	BIOL 103 (Gen Ed Biological & Physical Lab Science)
2	BIOT 110 Program requirement	BIOT elective (Major Related Science)
4	CHEM 131 Program requirement	CHEM 103 (Gen Ed Biological & Physical Science)
3	ENGL 102 recom'd English Foundation Gen Ed requirement	WR TG 112 (Gen Ed Communications; <i>must be completed with C- or better</i>)
2	BIOT 120 Program requirement	BIOT elective (Major Related science)
1	BIOT 121 Program requirement	BIOT elective (Major Related science)
3	BIOT 200 Program requirement	◆ BIOT elective (Major Required Biotechnology Techniques Lecture)
1	BIOT 201 Program requirement	BIOT elective (Major Related science)
4	BIOL 210 Program requirement	◆ BIOL 230 (Major Required Microbiology Lecture and Lab)
4	BIOL 222 Program requirement	◆ BIOL elective (Major Required Genetics Lecture and Lab)
1	BIOT 231 Program requirement	BIOT elective (Major Related science)
3	BIOT 230 Program requirement	BIOT elective (Major Related science)
5	CHEM 203 recom'd Program requirement ‡	CHEM 233 (elective)
3	Arts <i>or</i> Humanities Distribution Gen Ed requirement	Gen Ed Arts & Humanities
3	BIOT 240 Program requirement	◆ BIOT elective (Major Required Biotechnology Techniques Lecture)
1	BIOT 241 Program requirement	◆ BIOT elective (Major Required Biotechnology Techniques Lab)
3	Behavioral & Social Science Distribution Gen Ed requirement	Gen Ed Behavioral & Social Science
5	CHEM 204 recom'd Program elective †	CHEM 243 (elective)
3	COMM 108 <i>or</i> COMM 112 recom'd Program elective †	SPCH 100 <i>or</i> SPCH elective (Gen Ed Communications)
60	Total Credits Transferred See next page for MC Notes	

REMAINING UMGC DEGREE REQUIREMENT RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE

LIBS 150 Introduction to Research or other Gen Ed course (to be fulfilled by 1 credit of CHEM 131 from MC)	--
PACE 111S Program and Career Exploration in Health and Sciences or other PACE 111	3
IFSM 201 Concepts and Applications of Information Technology or other Gen Ed Computing	3
HIST 125 Technological Transformations or other Gen Ed Arts & Humanities	3
ECON 103 Economics in the Information Age or other Gen Ed Behavioral & Social Science	3
WR TG 391 Advanced Research Writing or other upper-level writing (Gen Ed Communications)	3UL
Elective (must be taken upper-level; avoid duplication of science credit – see note ~)	3UL
◆ BIOL 325 Inquiries in Biological Science (required for the major)	3UL
Elective (avoid duplication of science credit – see note ~)	3
◆ BIOL 350 Molecular and Cellular Biology (required for the major)	3UL
Elective (must be taken upper-level; avoid duplication of science credit – see note ~)	3UL
◆ BIOL 357 Bioinformatics (required for the major)	3UL
Elective (must be taken upper-level; avoid duplication of science credit – see note ~)	3UL
◆ NSCI 301 Laboratory Management and Safety (required for the major)	3UL
Elective (must be taken upper-level; avoid duplication of science credit – see note ~)	3UL
◆ BIOL 486B Workplace Learning in Biology (required workplace learning for the major)	6UL
Elective (must be taken upper-level; avoid duplication of science credit – see note ~)	3UL
Elective (avoid duplication of science credit – see note ~)	3
◆ BIOL 495 Current Trends and Applications in the Life Sciences (required capstone for the major)	3
Elective (avoid duplication of science credit – see note ~)	3
TOTAL CREDITS REMAINING AT UMGC	60

NOTES: Minimum of 120 credits, including 36 upper-level (courses numbered 300-499) required for bachelor's degree with minimum 2.0 (C) grade point average (GPA) / No course within major or minor below 2.0 GPA / At least one-half of credits within major and minor comprised of: a. upper-level; b. UMGC resident; c. traditional college courses earning a grade / Maximum of 70 transfer credits to UMGC from 2-year or community college (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements) / WR TG 112 completed with grade of 1.67 GPA (C-) or better / ◆ = Denotes course in major at UMGC / * = Denotes lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL = Denotes upper-level course

MONTGOMERY COLLEGE NOTES:

- ^ ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.
- ‡ CHEM 203 (5 semester hours) may be taken instead of CHEM 150.
- † Program electives: BIOT 250, BIOT 251, CMAP 120, CHEM 132, CHEM 204, PHYS 203, PHYS 233, SCIR 297, MATH elective, BIOL elective, COMM 108 or COMM 112, HUMD, BSSD, or ARTD.