

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.

UMGC BACHELOR OF SCIENCE IN BIOTECHNOLOGY
UMGC Maryland Community College Alliances

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 or ENGL 101A recom'd elective ^^	WRTG elective (Gen Ed Communications)
3-4	MATH 117 or higher Mathematics Gen Ed req (not 130, 131) ‡	STAT 200, MATH 106, or higher Gen Ed Mathematics
3	BIOT 110 Program requirement	◆ BIOT elective (Major Required Biotechnology Techniques Lecture)
3	BIOT 120 and BIOT 121 Program requirement	BIOT elective
4	CHEM 131 Gen Ed requirement	CHEM 103 (Gen Ed Biol. & Physical Science; related req. to the major)
3	ENGL 102 recom'd English Foundation Gen Ed requirement	WRTG 112 (Gen Ed Communications; <i>must be completed with C- or better</i>)
4	BIOL 150 Gen Ed requirement	BIOL 105 (Gen Ed Biol. & Physical Lab Science; related req. to the major)
4	BIOT 200 and BIOT 201 Program requirement	Science elective (Major Related Science)
4	BIOL 210 Program requirement	◆ BIOL 230 (required for the major)
3	Arts or Humanities Distribution Gen Ed requirement	Gen Ed Arts & Humanities
4	BIOL 222 Program requirement	◆ BIOL 222 and BIOL 224 (required for the major)
4	BIOT 230 and BIOT 231 Program requirement	Science elective (Major Related Science)
4	CHEM 150 Program requirement ‡	CHEM 104 (elective; Major Related Science)
3	Behavioral and Social Sciences Distribution Gen Ed req ^^^	Gen Ed Behavioral & Social Science
4	BIOT 240 and BIOT 241 Program requirement	◆ BIOT elective (Major Required Biotechnology Techniques Lecture/Lab)
3	COMM 108 or COMM 112 recom'd Program elective	SPCH 100 or SPCH elective (Gen Ed Communications)
3	Arts or Humanities Distribution recom'd Program elective	Gen Ed Arts & Humanities
1	Program electives †	Elective
60-61	Total Credits Transferred	Total Credits Transferred

REMAINING REQUIREMENTS FOR BACHELOR'S DEGREE	CREDITS
LIBS 150 Introduction to Research or any Gen Ed credit (to be fulfilled with 1 Gen Ed credit from MC)	---
PACE 111S Program and Career Exploration in Health and Sciences or any PACE 111	3
SPCH 100 Foundations of Oral Communication or any COMM, SPCH, WRTG Gen Ed Communication	3
Elective (avoid duplication of science credit – see note ~)	3
BEHS 103 Technology in Contemporary Society or any Gen Ed Behavioral & Social Science	3
WRTG 391 Advanced Research Writing or any upper-level writing Gen Ed Communications	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 (avoid duplication of science credit – see note ~)	3
◆ BIOL 357 Bioinformatics (required for the major)	3UL
Elective (avoid duplication of science credit – see note ~)	3
Elective (avoid duplication of science credit – see note ~)	3
◆ NSCI 301 Laboratory Management and Safety (required for the major)	3UL
Elective (avoid duplication of science credit – see note ~)	3
Elective (avoid duplication of science credit – see note ~)	3
◆ BIOL 486B Workplace Learning in Biology or two 3-cr. BIOL 486A (required for the major)	3UL
Elective (avoid duplication of science credit – see note ~)	3
Elective (avoid duplication of science credit – see note ~)	3
◆ BIOL 495 Life Sciences Capstone (required capstone for the major)	3UL
Elective (avoid duplication of science credit – see note ~)	2-3
TOTAL CREDITS REMAINING AT UMGC	59-60

NOTES: Minimum of 120 credits, including 30 with UMGC of which at least 15 must be upper-level (courses numbered 300-499), are required for the bachelor's degree with a UMGC grade point average (GPA) of 2.0 (C) or higher / At least one-half of the credits within the major and minor must be comprised of: a. traditional college courses earning a grade (except for the CJLE major); b. UMGC resident coursework (except for the APTC, CJLE, and GECU majors, which require only the major capstone as UMGC resident credit) / No course within the major or minor below the grade of C (2.0) / UMGC does not accept grades below a C (2.0) in transfer from schools outside of the University System of Maryland and the Maryland community colleges (except WRTG 112 which must be completed with a grade of C- (1.67) or better from all schools) / Maximum of 70 transfer credits to UMGC from two-year or community colleges & maximum of 90 transfer credits from all sources combined (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements) / ◆¹ = Course in major at UMGC / UL² = Upper-level course (numbered 300-499) / ~³ = Considered duplicate science credit: BIOL 230 and BIOL 302; BIOL 220 and a general genetics transfer course; BIOL 101 and BIOL 103; CHEM 103, CHEM 121, and CHEM 297

MONTGOMERY COLLEGE NOTES:

¹ ◆ Course in major at UMGC

² UL Upper-level course (numbered 300-499)

³ ~ Considered duplicate science credit

- ⁴ = ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective. Please consult an advisor or transfer institution for assistance with course selection.
- ⁵ = Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.
- ⁶ = Program electives: BIOT 250, BIOT 251, BIOT 260, BIOT 261, 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.
- ⁷ = Students should consult an advisor regarding the requirements of transfer institutions. For some institutions, MGMT 201 may be appropriate, for others (e.g., The Smith School at the University Maryland) another course will be more appropriate. If necessary, use as needed to fill the 60-credit requirement.
- ⁸ = CHEM 203 (5 semester hours) may be taken instead of CHEM 150.

⁴ ⁴ ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.

⁵ ⁵ Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.

⁶ ⁶ Many, but not all four-year institutions require MATH 150 or MATH 181 as a Mathematics foundation. Students should consult with an advisor regarding the requirements of transfer institutions.

⁷ ⁷ Students should consult an advisor regarding the requirements of transfer institutions. For some institutions, MGMT 201 may be appropriate.

⁸ ⁸ Students must complete one Global or Cultural Perspectives designated course as part of their General Education Program to graduate.