

Biological Sciences, A.S.

Montgomery College	0-30 credits	Course	Credits	Course	Credits
		*CHEM131 - Principles of Chemistry I	4	*BIOL150 - Principles of Biology I	4
*MATH181 - Calculus I	4	*CHEM132 - Principles of Chemistry II	4		
Behavioral and Social Sciences Distribution	3	Program Elective (*MATH182 recommended)	4		
ENGL101 or English Foundation	3	English Foundation or Elective	3		
		Humanities Distribution	3		
	Total	14	Total	18	
Montgomery College	31-60 credits	Course	Credits	Course	Credits
		*BIOL151 - Principles of Biology II	4	*BIOL222 - Principles of Genetics	4
COMM108 or COMM112	3	Program Elective (*CHEM204 recommended)	5		
Program Elective (*CHEM203 recommended)	5	Behavioral and Social Sciences Distribution	3		
Arts Distribution	3	Elective	1		
	Total	15	Total	13	

Articulation Notes:

* Course can be used to satisfy major requirements when completed with a "C" or better

** Physical Activity Courses are counted toward Institutional Requirement at UMBC and as such, credits are not counted toward graduation

Physical Education: UMBC students must take two **physical activity** courses in addition to their 120 academic credits required for graduation. Therefore, students may transfer 2 physical activity courses in addition to their 60 transferrable credits toward the degree. Waivers are available for students 30 years of age or older, documented military history, or medical condition.

Foreign Language Requirement: The language requirement consists of completion of a foreign language through the 201 level or demonstrated proficiency at that level. Proficiency, the number of courses needed to complete the requirement, and course placement, are determined by previous experience as follows: 1) completion of level 4 or higher of a language in high school, 2) corresponding AP, IB or CLEP credit, or 3) completion of a language through the 201 level at a regionally accredited college or university.

Biochemistry and Molecular Biology, B.S.

UMBC	Year 3	Fall Semester		Spring Semester	
		Course	Credits	Course	Credits
		CHEM300 - Analytical Chemistry	4	CHEM438 - Comprehensive Biochemistry II	4
		CHEM437 - Comprehensive Biochemistry I	4	Upper Level Elective (Writing Intensive)	3
		BIOL303 - Cell Biology	4	PHYS121 - Introductory Physics I	4
		Foreign Language or Elective	3-4	Social Sciences GEP Requirement	3
				Foreign Language or Elective	3-4
		Total	15-16	Total	17-18
UMBC	Year 4	Course	Credits	Course	Credits
		CHEM437L - Biochemistry Laboratory	4	Biochemistry - Physical Chemistry Elective	3-4
		Biochemistry Elective	3-4	Biochemistry Elective	3-4
		PHYS122 - Introductory Physics II	4	Individual Laboratory Research	1-4
		Foreign Language or Elective	3-4	Culture GEP Requirement	3
		**Physical Education	1.5	Elective (if needed)	0-4
				**Physical Education	1.5
		Total	14-16	Total	14-15

With questions at MC contact Dr. Antonio Del Castillo-Olivares at antonio.delcastillo-olivares@montgomerycollege.edu or 240-567-5406

With questions at UMBC contact Philip Farabaugh at farabaug@umbc.edu or 410-455-3018