

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
	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 UMBC major requirements when completed with a "C" or better.

** **Physical Education:** UMBC students must take two physical activity courses in addition to the 120 academic credits required for graduation. Credits earned for physical activity courses are not counted toward the 120 academic credits. Therefore, students may transfer 2 physical activity courses in addition to the 60 transferrable academic credits. Waivers are available for medical reasons, military service, or collegiate athletic participation.

*** **Foreign Language Requirement:** The language requirement consists of completion of a foreign language through the 201 level or demonstrated proficiency at that level. The proficiency requirement is met by previous experience as follows: 1) completion of level 4 or higher of a language in high school, or 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
	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