

**Science, Biological Science Track, A.S.**

Montgomery College	0-35 credits	Course	Credits	Course	Credits
		CHEM131 - Principles of Chemistry I (NSLD)	4	BIOL150 - Principles of Biology I (NSLD)	4
English Foundation (or ENGL101 if needed)	3	CHEM132 - Principles of Chemistry II	4		
MATH165 or MATH170 or MATH181 (MATF)	4	MATH170 or MATH181 or another Program Elective	4		
BSSD	3	English Foundation (if needed) or ARTD	3		
COMM108 or COMM112 (GEEL)	3	***Foreign Language (HUMD)	3		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>18</b>		
Montgomery College	36-69 credits	Course	Credits	Course	Credits
		BIOL151 - Principles of Biology II (NSLD)	4	BIOL222 - Principles of Genetics	4
CHEM203 - Organic Chemistry I	5	BSSD	3		
BIOL210 - Microbiology (Program Elective)	4	PHYS203 - General Physics I (Program Elective)	4		
***Foreign Language	3	ARTD	3		
**Physical Education	1	***Foreign Language	3		
		**Physical Education	1		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>17</b>		

**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. The Shady Grove Transfer Credit Limit Exception is available to students who earn an associate degree prior to transferring to UMBC at Shady Grove and will permit the transfer of up to 66 credits, instead of the standard 60-credit transfer limit, from a Maryland two-year school to UMBC on the condition that six (6) of the 66 credits are language courses directly applicable toward the 201-level language sequence required as part of the UMBC general education program.

**Translational Life Science Technology, B.S.**

UMBC	Year 3	Fall Semester		Spring Semester	
		Course	Credits	Course	Credits
		BTEC300 - Translational Life Science Technology Survey (W)	3	BTEC310 - Instrumentation & Methods for the Biotechnology	3
		BTEC303 - Applied Cell Biology	4	BTEC344 - Epidemiology	3
		BTEC330 - Software Applications for the Life Sciences	3	BTEC430 - Translational Biochemistry & Molecular Biology	4
		BTEC350 - Statistics for the Life Sciences	4	Social Science GEP Requirement	3
				Elective	3
		<b>Total</b>	<b>14</b>	<b>Total</b>	<b>16</b>
UMBC	Year 4	Course	Credits	Course	Credits
		BTEC395 - Translational Bioinformatics	4	BTEC462 - Bioprocess Design & Control	4
BTEC444 - Translational Cancer Biotechnology	3	BTEC470 - Advanced Bio-manufacturing	4		
BTEC453 - Biochemical Engineering	4	BTEC495 - Professional Internship / Project-Based Course	3		
BTEC495 - Professional Internship / Project-Based Course	3	Arts and Humanities or Culture GEP Requirement	3		
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>14</b>		

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