



Suggested Transfer Pathway

Montgomery College A.A.S. in Biotechnology to George Washington University B.S.H.S. in Medical Laboratory Sciences



Catalog Year: 2018-2019, Total Credits: 60

0 - 30 credits – Montgomery College

	Cr
ENGL101/ENGL101A (or program elective* if needed for ENGL102/103)	3
BIOT110 Intro to Biotechnology	2
Math Foundation (MATH117/150/165)	3-4
CHEM131 Principles of Chemistry I (GEEL)	4
BIOL150 Principles of Biology I (NSLD)	4
Total Credits	16-17

Courses may be taken in any order (pending prerequisites)

	Cr
ENGL102 or ENGL103 English Foundation	3
BIOT120 Cell Culture and Cell Function	3
BIOT200 Protein Biology	4
CHEM132 Principles of Chemistry (Program Elective)	4
Total Credits	14

31 - 60 credits – Montgomery College

	Cr
BIOL210 Microbiology	4
BIOL222 Principles of Genetics	4
BIOT230 Basic Immunology and Immunological Methods	4
Arts or Humanities Distribution (ARTD or HUMD)	3
Total Credits	15

	Cr
BIOT240 Nucleic Acid Methods	4
Behavioral & Social Science Distribution (BSSD)	3
CHEM150 Essentials of Organic & Biochemistry	4
Program Elective *	4
Total Credits	14

* **Program electives:** BIOT 250, CMAP 120, CHEM 204, PHYS 233, SCIR 297, MATH elective, BIOL elective, COMM 108 or COMM 112, HUMD, BSSD, or ARTD

** CHEM203 Organic Chemistry I (5 credits) may be taken instead of CHEM150

Apply to graduate from MC with an [Associate of Applied Science in Biotechnology](#)

Year Three – George Washington University

Fall Semester	Cr
HSCI 2112W: Writing	3
HSCI 4112W Writing	3
Total Credits	6

Spring Semester	Cr
MLS 4141: Immunology and Serology	3
MLS 4158: Lab Management and Operations	3
Total Credits	6

Summer Semester	Cr
MLS 4216 Bacteriology Laboratory	1
MLS 4116: Bacteriology I	3
MLS 4117: Bacteriology II	2
MLS 4119: Parasitology, Mycology and Virology	2
MLS 4219: Parasitology, Mycology and Virology Laboratory	1
Total Credits	9

Year Four – George Washington University

Fall Semester	Cr
MLS 4246 Biochemistry Laboratory	1
MLS 4145: Biochemistry I	3
MLS 4146: Biochemistry II	3
MLS 4151: Molecular Diagnostics	3
MLS 4251: Molecular Diagnostics Laboratory	1

Spring Semester	Cr
MLS 4230 Hematology Laboratory	1
MLS 4130: Hematology I	3
MLS 4131: Hematology II	3
MLS 4250 Immunohematology Laboratory	1
MLS 4150 Immunohematology	3

Total Credits	11	Total Credits	11
Summer Semester	Cr		
Practicum Courses (MLS 4160, 4161, 4164, 4162, 4165, 4166)	16		
Capstone Seminar	1		
Total Credits	17		

**MC [A.A.S. in Biotechnology](#) to
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Name:	Date:	ID#	
Foundation Courses	COURSE	HRS	GRADE
English Foundation, ENGL102 or ENGL103	ENGL	3	
Math Foundation, MATH117/150/165	MATH	3	
Distribution Courses	COURSE	HRS	GRADE
Arts or Humanities Distribution		3	
Behavioral and Social Sciences Distribution		3	
Natural Sciences Lab Distribution with Lab, Principles of Biology I	BIOL150	4	
General Education Elective	COURSE	HRS	GRADE
Principles of Chemistry I (GEEL)	CHEM131	4	
Area of Concentration Requirements	COURSE	HRS	GRADE
ENGL101 or ENGL101A (if needed for ENGL102/103) or elective		3	
Introduction to Biotechnology	BIOT110	2	
Cell Culture and Cell Function	BIOT120	3	
Protein Biotechnology	BIOT200	4	
Microbiology	BIOL210	4	
Principles of Genetics	BIOL222	4	
Basic Immunology and Immunological Methods	BIOT230	4	
Nucleic Acid Methods	BIOT240	4	
Essentials of Organic and Biochemistry **	CHEM150	4	
Principles of Chemistry II (Program Elective)	CHEM132	4	
Program Elective *		4	

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** CHEM203 Organic Chemistry I (5 credits) may be taken instead of CHEM150

smhs.gwu.edu/medical-laboratory-sciences

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