

Suggested Transfer Pathway

Montgomery College A.S. in Science, Chemistry & Biochemistry to Shepherd University B.S. in Chemistry w/Biochemical Chemistry Concentration



Total Credits: 64, Catalog Year: 2018-2019

3
4
4
3
14

(Courses may be taken in any order, pending prerequisites)

	Cr
ENGL102 Critical Reading, Writing and Research	3
BIOL150 Principles of Biology I	4
CHEM132 Principles of Chemistry II	4
MATH182 Calculus II	4
ARTT127 or MUSC110, or THET100 (Arts Distribution)	3
Total Credits	18

33 – 64 Credits – Montgomery College

	Cr
CHEM203 Organic Chemistry I	5
MATH280 Multivariable Calculus	4
Behavioral and Social Science Distribution	3
PHYS161 General Physics I: Mechanics & Heat	3
Total Credits	15

	Cr
CHEM204 Organic Chemistry II	5
ENES206 MATLAB for Engineers or BIOL/CHEM/PHYS/MATH Elective	1
PHYS262 Physics II: Electricity & Magnetism	4
BIOL151 Principles of Biology II	4
Behavioral and Social Science Distribution	3
Total Credits	17

Apply to graduate from Montgomery College with an <u>Associate of Science in Chemistry and Biochemistry</u>

Year Three - Shepherd University

Fall Semester	Cr
CHEM321 Analytical Chemistry	3
CHEM 321L Analytical Chemistry Lab	1
Humanities – Core Curriculum	3
PHYS 221L General Physics I Lab	1
Social Science – Core Curriculum	3
Wellness – Core Curriculum	3
 Total Credits	14

Spring Semester		Cr
CHEM322 Instrumen	tal Analysis	3
CHEM 322L Instrume	ental Analysis Lab	1
BIOL305 Cell Biology		4
CHEM325 Computer	s in Science	3
Humanities – Core C	urriculum	3
CHEM450 Research i	n Chemistry	1
Total Credits		15

Year Four - Shepherd University

Fall Semester	Cr
CHEM450 Research in Chemistry	2
Science Elective	4
BIOL344 Genetics	4
CHEM329 Biochemistry I	3
CHEM329L Biochemistry I Lab	1
 Total Credits	14

Spring Semester	Cr
CHEM450 Research in Chemistry	1
Science Elective	4
CHEM340 Physical Chemistry I	3
CHEM340L Physical Chemistry I Lab	1
CHEM330 Biochemistry II	4
CHEM330L Biochemistry II Lab	1
Total Credits	13

^{*} BSSD courses must come from different disciplines

MC A.S. in Science, Chemistry and Biochemistry to Shepherd B.S. in Chemistry

Total Credits: 64, Catalog Year 2018-2019

Name:	Date:	ID#	
Foundation Courses	COURSE	HRS	GRADE
English Foundation (ENGL102, Critical Reading, Writing and Research)	ENGL102	3	
Math Foundation (Calculus I)	MATH181	4	
Distribution Courses	COURSE	HRS	GRADE
Principles of Chemistry I	CHEM131	4	
Principles of Chemistry II	CHEM132	4	
Arts Distribution (ARTT127, MUSC110, or THET100)		3	
Behavioral and Social Sciences Distribution *		3	
Behavioral and Social Sciences Distribution *		3	
Humanities Distribution		3	
General Education Elective	COURSE	HRS	GRADE
Principles of Biology I	BIOL150	4	
Area of Concentration Requirements	COURSE	HRS	GRADE
Organic Chemistry I	CHEM203	5	
Organic Chemistry II	CHEM204	5	
ENES206 MATLAB for Engineers or BIOL/CHEM/PHYS/MATH Elective		1	
ENGL101 (if needed for ENGL102, elective if not)		3	
Calculus II	MATH182	4	
Multivariable Calculus	MATH280	4	
General Physics I: Mechanics and Heat	PHYS161	3	
General Physics II: Electricity and Magnetism	PHYS262	4	

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† Choose one distribution course that also fulfills the Global and Cultural Perspectives requirement. www.shepherd.edu/chemistry

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^{*} Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines