

Suggested Transfer Pathway Montgomery College A.S. in Science, Chemistry & **Biochemistry to Shepherd University B.S. in Chemistry** w/ Traditional Concentration



Total Credits: 60, Catalog Year: 2018-2019

0 – 29 Credits – Montgomery College		(Courses may be taken in any order, pending prerequi	sites)
			Cr
ENGL101 (if needed for ENGL102/103)	ENGL101 (if needed for ENGL102/103)3ENGL102 Critical Reading, Writing and ResearcCHEM131 Principles of Chemistry I4BIOL150 Principles of Biology		3
CHEM131 Principles of Chemistry I			4
MATH181 Calculus I	4	CHEM132 Principles of Chemistry II	4
Humanities Distribution	3	MATH182 Calculus II	4
Total Credits	14	Total Credits	15
30 – 60 Credits – Montgomery College			
	Cr		Cr
CHEM203 Organic Chemistry I	5	CHEM204 Organic Chemistry II	5
MATH280 Multivariable Calculus	4	PHYS262 Physics II: Electricity & Magnetism	4
Behavioral and Social Science Distribution	3	ENES206 MATHLAB for Engineers or	1
PHYS161 General Physics I: Mechanics & Heat	3	BIOL/CHEM/PHYS/MATH Elective	
Total Credits	15	ARTT127, MUSC110, or THET100 (Arts	3
		Distribution)	3
		Behavioral and Social Science Distribution	3
		Total Credits	16
Apply to graduate from Montgomery College with an Associate of Science in Chemistry and Biochemistry			

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* BSSD courses must come from different disciplines

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	
Minor	3	
GSPE 201 – Fitness for Life	3	
 Total Credits	17	

Spring Semester	Cr
CHEM322 Instrumental Analysis	3
CHEM 322L Instrumental Analysis Lab	1
CHEM340 Physical Chemistry I	3
CHEM340L Physical Chemistry I Lab	1
CHEM 325 – Computers in Science	3
CHEM450 Research in Chemistry	1
Minor	3
Total Credits	15

Year Four – Shepherd University

 Fall Semester	Cr
CHEM450 Research in Chemistry	2
CHEM440 Physical Chemistry II	3
CHEM440L Physical Chemistry li Lab	1
CHEM301 Inorganic Chemistry	3
Minor	3
Minor	3
 Total Credits	15

Spring Semester	Cr
CHEM450 Research in Chemistry	1
Science Elective	4
Humanities – Core Curriculum	3
Elective	2
Minor	3
Total Credits	13

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

Total Credits: 60, 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	
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. <u>www.shepherd.edu/chemistry</u>

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