Year Two

Year Four Year Three

Year Four Year Three



Biochemistry/Medical Sciences Emphasis

2017 Fall Catalog and Beyond B.A. Sample Program Plans

Since the Biochemistry major is rigorous and highly sequential, summer session options are included to promote timely progress to degree while maintaining a manageable course load.

Math Placement is Intermediate Algebra (ARC 35)

Fall	Winter	Spring	Summer
Intermediate Algebra 35 ₍₀₎	Math 6A ₍₄₎	Math 6B ₍₄₎	Chemistry 1A, 1LA ₍₅₎
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective ₍₄₎	Chemistry 1B, 1LB ₍₅₎
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	, , , , , , , , , , , , , , , , , , ,
Breadth or Elective(4)	Breadth or Elective(4)	Biochemistry 96 ₍₁₎	
Biochemistry 95 ₍₁₎	,,	y	
<u> </u>			
Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎
Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 (Optional) (4)
Math $7A_{(4)}$	Math 7B ₍₄₎	Physics 2A, 2LA ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	Math 46 (Optional) (4)	
			1
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Statistics 100A ₍₅₎
Biology 102 ₍₄₎	Breadth or Elective(4)	UD Biochemistry Elective(4)	
Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	Breadth or Elective(4)	
		Biochemistry 98I ₍₁₎	
			1
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	Breadth or Elective(4)	
Cell Biology & Neuroscience 101(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	Minimum units 180
Fall	<u>Math Placemen</u> Winter	<u>t is MATH 5</u> Spring	Summer
Math 5 ₍₄₎	Math 7A ₍₄₎	Math 7B ₍₄₎	Breadth or Elective(4)
English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎	
Breadth or Elective ₍₄₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Biochemistry 96 ₍₁₎	, , , , , , , , , , , , , , , , , , , ,
•		•	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5B ₍₄₎	Biology 5C ₍₄₎	Statistics 100A ₍₅₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Math 46 (Optional) (4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
Biology 102 ₍₄₎ Breadth or Elective ₍₄₎	Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎	UD Biochemistry Elective(4) Breadth or Elective(4)	
Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎	
Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Chemistry 109 ₍₄₎	Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎	UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎ Biochemistry 120 ₍₄₎	
Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Chemistry 109 ₍₄₎ English 1C or 1SC ₍₄₎	Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎ Biochemistry 162 ₍₅₎	UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎ Biochemistry 120 ₍₄₎ Breadth or Elective ₍₄₎	
Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Chemistry 109 ₍₄₎	Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎	UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎ Biochemistry 120 ₍₄₎	Minimum units 180

Spring

Math 7A(4)

Summer

Breadth or Elective(4)

Winter

Math 6B(4)

Year One
Year Two
Year Three
Year Four

Year Two Year One

Year Four Year Three

Fall

 $\underline{Math\ 6A_{^{(4)}}}$

Ęl −	English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎	
rear One	Chemistry 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
es.	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Biochemistry 96 ₍₁₎	
7				
			<u> </u>	
OI	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	Breadth or Elective ₍₄₎
<u>≥</u>	Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective(4)	*Biochemistry 100 (Optional) (4)
⊨l	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Year 1 wo	Math 7B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 (Optional) (4)	
' ' I				
o)ا	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Year Three	Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
=	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
<u>ear</u>	Breadth or Elective(4)	Breadth or Elective(4)	Biochemistry 98I ₍₁₎	
X				
∃l	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
rear Four	English 1C or 1SC (4)	Biochemistry 162 ₍₅₎	Breadth or Elective(4)	
ह	Cell Biology & Neuroscience 101(4)	Breadth or Elective(4)	Breadth or Elective(5)	
9	Breadth or Elective ₍₄₎	Breadth or Elective(4)		Minimum units 180

Math Placement is MATH 7A

Fall	Winter	Spring	Summer
Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 (Optional) (4)	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
		Biochemistry 96 ₍₁₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
Breadth or Elective(4)	Breadth or Elective(4)	Biochemistry 98I ₍₁₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	Breadth or Elective ₍₄₎	
Cell Biology & Neuroscience 101 ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)		Minimum units 180

Math Placement is MATH 7B

	wath I lacement		
<u> Fall</u>	Winter	Spring	Summer
Math 7B ₍₄₎	Math 46 (Optional) (4)	Breadth or Elective ₍₄₎	
English 1A ₍₄₎	English 1B ₍₄₎	Chemistry 1C, 1LC ₍₅₎	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Biochemistry 96 ₍₁₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chamistan OA/OLA	Chamistary OD/OLD	Chamistan 9C/9I C	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective ₍₄₎	
Breadth or Elective ₍₄₎	Breadth or Elective(4)	Biochemistry 98I ₍₁₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	Breadth or Elective ₍₄₎	
Cell Biology & Neuroscience 101(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	

NOTE

Breadth or Elective(4)

BCH 100 ENROLLMENT: Students who earn a grade lower than "B-"in BIOL 5A or CHEM 08A are strongly encouraged to complete BCH 100 during their second year of residence to better prepare themselves for BCH 110A, BCH 110B, and BCH 110C.

Breadth or Elective(4)

Minimum units 180

Breadth or Elective(4)

MATH-Please ensure that you follow the math pathway provided and work your way through the MATH 7 series.



Fall

Year One

Year Two

Year Four Year Three

Year One

Year Two

Year Four Year Three

Intermediate Algebra 35(0)



Summer

Chemistry 1A, 1LA₍₅₎

Biochemistry/Medical Sciences Emphasis

2016 Fall Catalog and Prior B.A. Sample Program Plans

Since the Biochemistry major is rigorous and highly sequential, summer session options are included to promote timely progress to degree while maintaining a manageable course load.

Winter

Math 6A₍₄₎

Math Placement is Intermediate Algebra (ARC 35)

Spring

Math 6B₍₄₎

	1		
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	Chemistry 1B, 1LB
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Biochemistry 96 ₍₁₎	
Biochemistry 95 ₍₁₎			
G 1 1 1 1 1 G	C1	CI CI OD OLD	CI OC/OLC
Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄
Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 (Optional
Math 9A ₍₄₎	Math 9B ₍₄₎	Physics 2A, 2LA ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	Math 46 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Statistics 100A ₍₅₎
Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	UD Biochemistry Elective ₍₄₎	Statistics 10011(5)
Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	Breadth or Elective ₍₄₎	
Filysics 2B, 2LB(5)	Filysics 2C, 2LC(5)	Biochemistry 98I ₍₁₎	
		Biochemistry 981(1)	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	UD Biochemistry Elective ₍₄₎	
Cell Biology & Neuroscience 101(4)		Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	Minimum units 180
Breadin of Electricity	Breadin of Electry C(4)	Breadin of Elective(4)	1,1111111111111111111111111111111111111
T7-11	Math Placement		G
Fall	<u>Math Placement</u> Winter		Summer
Fall Math 5 ₍₄₎	·	is MATH 5 Spring Math 9B ₍₄₎	
Math 5 ₍₄₎ English 1A ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎	Breadth or Elective Chemistry 1C, 1LC
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎	Breadth or Elective Chemistry 1C, 1LC
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎	Breadth or Elective Chemistry 1C, 1LC
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Math 46 _{(Optional) (4)}	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4)	Breadth or Elective Chemistry 1C, 1LC
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Math 46 _{(Optional) (4)} Biochemistry 110A ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4)	Breadth or Elective Chemistry 1C, 1LC
Math 5(4) English 1A(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Math 46 (Optional) (4) Biochemistry 110A(4) Biology 102(4)	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ UD Biochemistry Elective ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎	Breadth or Elective Chemistry 1C, 1LC
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Math 46 _{(Optional) (4)} Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎ Breadth or Elective ₍₄₎	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎	Breadth or Elective Chemistry 1C, 1LC
Math 5(4) English 1A(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Math 46 (Optional) (4) Biochemistry 110A(4) Biology 102(4)	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ UD Biochemistry Elective ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎	Breadth or Elective Chemistry 1C, 1LC
Math 5(4) English 1A(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Math 46 (Optional) (4) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4) Breadth or Elective(4)	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎	Breadth or Elective Chemistry 1C, 1LC
Math 5(4) English 1A(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Math 46 (Optional) (4) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4)	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎	Breadth or Elective Chemistry 1C, 1LC
Math 5(4) English 1A(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Math 46 (Optional) (4) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4) Breadth or Elective(4) Chemistry 109(4)	Winter Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Statistics 100A ₍₅₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎	Breadth or Elective Chemistry 1C, 1LC

Fall	Winter	Spring	Summer
Math 6A ₍₄₎	Math 6B ₍₄₎	Math 9A ₍₄₎	Breadth or Elective
English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎	
Chemistry 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC
Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Biochemistry 96 ₍₁₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	Breadth or Elective
Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective(4)	*Biochemistry 100 (Optional)
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Math 9B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	UD Biochemistry Elective(4)	UD Biochemistry Elective(4)	
Breadth or Elective ₍₅₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Biochemistry 98I ₍₁₎	
	_		
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC (4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
Cell Biology & Neuroscience 101(4)	Breadth or Elective ₍₄₎	Breadth or Elective(5)	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Minimum units 18

Math Placement is MATH 9A

Fall	Winter	Spring	Summer
Math 9A ₍₄₎	Math 9B ₍₄₎	Math 46 (Optional) (4)	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
		Biochemistry 96 ₍₁₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	UD Biochemistry Elective(4)	
Breadth or Elective(4)	UD Biochemistry Elective(4)	Biochemistry 98I ₍₁₎	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
Cell Biology & Neuroscience 101(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	Minimum units 180

Math Placement is MATH 9B

Fall	Winter	Spring	Summer
Math 9B ₍₄₎	Math 46 (Optional) (4)	Breadth or Elective ₍₄₎	
English 1A ₍₄₎	English 1B ₍₄₎	Chemistry 1C, 1LC ₍₅₎	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Biochemistry 96 ₍₁₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
	Ci i opiovn	G	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	UD Biochemistry Elective(4)	
Breadth or Elective(4)	UD Biochemistry Elective(4)	Biochemistry 98I ₍₁₎	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	Biochemistry 120 ₍₄₎	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
Cell Biology & Neuroscience 101(4)	Breadth or Elective(4)	Breadth or Elective(4)	

NOTE

Breadth or Elective(4)

BCH 100 ENROLLMENT: Students who earn a grade lower than "B-"in BIOL 5A or CHEM 08A are strongly encouraged to complete BCH 100 during their second year of residence to better prepare themselves for BCH 110A, BCH 110B, and BCH 110C.

Breadth or Elective(4)

Minimum units 180

ORGANIC CHEMISTRY-The CHEM 12 series has been renumbered to CHEM 08 series beginning 2017 fall.

Breadth or Elective(4)

MATH- A new MATH 7 series has been introduced for incoming 2017 freshman, <u>please do not enroll in this</u> <u>course as a continuing student.</u> Please continue on the current math pathway you are on.



Fall

Year One

Year Two

Year Four Year Three

Year One

Year Four Year Three

Intermediate Algebra 35(0)



Summer

Chemistry 1A, 1LA₍₅₎

Biochemistry/Biology Emphasis

2017 Fall Catalog and Beyond B.A. Sample Program Plans

Since the Biochemistry major is rigorous and highly sequential, summer session options are included to promote timely progress to degree while maintaining a manageable course load.

Winter

Math 6A(4)

Math Placement is Intermediate Algebra (ARC 35)

Spring

 $Math \; 6B_{(4)}$

mermediate Argeora 33(0)	IVIAIII OF (4)		
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	Chemistry 1B, 1LB ₍₅₎
Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)			
Breadth or Elective(4)			
			_
Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎
Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100(Optional)(4
Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎	
	Biochemistry 15 ₍₃₎	Breadth or Elective ₍₄₎	
D' 1 ' 1104	D: 1 :	D: 1 110G	G 100 A
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Statistics 100A ₍₅₎
Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	UD Biochemistry Elective ₍₄₎	
UD Biology Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth of Elective(4)	Breadth of Licetive(4)	Minimum units 180
Breadin or Elective			
Breadth of Elective(4)	Math Placemen	nt is MATH 5	1
Fall	Winter	Spring	Summer
Fall Math 5(4)	Winter Math 7A ₍₄₎	Spring Math 7B ₍₄₎	Summer Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Math 46 ₍₄₎
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4)	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4)	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎	Math 46 ₍₄₎
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4)	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4)	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4)	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 _{(Optional) (4)} Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎	
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4)	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 _{(Optional) (4)} Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Chemistry 109 ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 _{(Optional) (4)} Biochemistry Elective ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ UD Biology Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Chemistry 109 ₍₄₎ English 1C or 1SC ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎ Biochemistry 162 ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry Elective ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ UD Biology Elective ₍₄₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎ Biology 102 ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Chemistry 109 ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 _{(Optional) (4)} Biochemistry Elective ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ UD Biology Elective ₍₄₎	Math 46 ₍₄₎

	Fall	Winter	Spring	Summer
	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 7A ₍₄₎	Breadth or Elective(4)
ne	English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎	
	CHEM 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
<u>Year One</u>	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
οN	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	Breadth or Elective(4)
Year Two	Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	*Biochemistry 100 (Optional) (4)
<u>ear</u>	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Ye	Math 7B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
d) I	Biochemistry 110A ₍₄₎	Biochemistry 110B (4)	Biochemistry 110C ₍₄₎	
Three	Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
Ė	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Year	Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
Ϋ́				
<u>II</u>	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
FO	English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Breadth or Elective(4)	
<u>Year Four</u>	UD Biology Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	Minimum units 180
Ye	<u>'</u>		•	•

Math Placement is MATH 7A

Fall	Winter	Spring	Summer
Math 7A ₍₄₎	Math 7B ₄₎	Math 46 ₍₄₎	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
BCH 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 _{(Optional) (4)}	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Breadth or Elective ₍₄₎	
UD Biology Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)			Minimum units 180

<u>One</u>

rear Two

Year Fou Year Three

Year Two

Math Placement is MATH 7B

Fall	Winter	Spring	Summer
Math 7B ₍₄₎	Math 46 ₍₄₎	Breadth or Elective(4)	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
BCH 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective ₍₄₎	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional)(4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	STAT 100A ₍₅₎	UD Biochemistry Elective(4)	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Breadth or Elective ₍₄₎	
UD Biology Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Minimum units 180

NOTE

BCH 100 ENROLLMENT: Students who earn a grade lower than "B-"in BIOL 5A or CHEM 08A are strongly encouraged to complete BCH 100 during their second year of residence to better prepare themselves for BCH 110A, BCH 110B, and BCH 110C.

MATH-Please ensure that you follow the math pathway provided and work your way through the MATH 7 series.



Fall

Year One

Year Two

Year Four Year Three

Year One

Year Four Year Three

Breadth or Elective(4)

Intermediate Algebra 35(0)

English 1A₍₄₎



Summer

Chemistry 1A, 1LA₍₅₎

Chemistry 1B, 1LB₍₅₎

Minimum units 180

Biochemistry/Biology Emphasis

2016 Fall Catalog and Prior B.A. Sample Program Plans

Since the Biochemistry major is rigorous and highly sequential, summer session options are included to promote timely progress to degree while maintaining a manageable course load.

Math Placement is Intermediate Algebra (ARC 35)

Spring

 $Math \; 6B_{(4)}$

Breadth or Elective(4)

Winter

Math 6A(4)

English 1B(4)

Breadth or Elective(4)

D11511 17 1(+)	D11511 1D(4)	Dicadili of Licetive(4)	Chemistry 1D, 1DD()
Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)			
Breadth or Elective(4)			
Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎
			*Biochemistry 100(Optional)(
Biology 5A, 5LA ₍₅₎	Biology 5B(4)	Biology 5C ₍₄₎	Diochemistry 100(opuonar)(-
Math 9A ₍₄₎	Math 9B ₍₄₎	Math 46(4)	
Breadth or Elective ₍₄₎	Biochemistry 15 ₍₃₎	Breadth or Elective ₍₄₎	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Statistics 100A ₍₅₎
Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	UD Biochemistry Elective(4)	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
· · · · · · · · · · · · · · · · · · ·			
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	UD Biochemistry Elective(4)	
UD Biology Elective(4)	UD Biology Elective(4)	Breadth or Elective(4)	
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎ Math Placement	is MATH 5	Minimum units 180
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎ Math Placement Winter	is MATH 5 Spring	Summer
Fall Math 5(4)	Math Placement Winter Math 9A(4)	is MATH 5 Spring Math 9B ₍₄₎	
Fall Math 5 ₍₄₎ English 1A ₍₄₎	Math Placement Winter Math 9A(4) English 1B(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Summer Math 46(4)
Fall Math 5 ₍₄₎ English 1A ₍₄₎	Math Placement Winter Math 9A(4) English 1B(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎	Summer Math 46(4)
Fall Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA ₍₄₎ Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5) Biochemistry 15 (3)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4)	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4) Biochemistry 110A(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5) Biochemistry 15 (3)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4)	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4) Biochemistry 110A(4) Biology 102(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5) Biochemistry 15 (3) Biochemistry 110B (4) UD Biochemistry Elective(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 _{(Optional) (4)} Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4) Breadth or Elective(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5) Biochemistry 15 (3) Biochemistry 110B (4) UD Biochemistry Elective(4) Breadth or Elective(4) Breadth or Elective(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Summer Math 46(4)
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4) Chemistry 109(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5) Biochemistry 15 (3) Biochemistry 110B (4) UD Biochemistry Elective(4) Breadth or Elective(4) Breadth or Elective(4) Breadth or Elective(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ UD Biology Elective ₍₄₎	Summer
Fall Math 5(4) English 1A(4) Biochemistry 95(1) Breadth or Elective(4) Chemistry 8A/8LA(4) Biology 5B(4) Physics 2A, 2LA(5) Breadth or Elective(4) Biochemistry 110A(4) Biology 102(4) Breadth or Elective(4) Breadth or Elective(4)	Math Placement Winter Math 9A(4) English 1B(4) Chemistry 1A, 1LA(5) Breadth or Elective(4) Chemistry 8B/8LB(4) Biology 5C(4) Physics 2B, 2LB(5) Biochemistry 15 (3) Biochemistry 110B (4) UD Biochemistry Elective(4) Breadth or Elective(4) Breadth or Elective(4)	is MATH 5 Spring Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC ₍₄₎ Breadth or Elective ₍₄₎ Physics 2C, 2LC ₍₅₎ *Biochemistry 100 (Optional) (4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Summer Math 46(4)

	Fall	Winter	Spring	Summer
	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 9A ₍₄₎	Breadth or Elective(4)
ne	English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎	
0	CHEM 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
<u>Year One</u>	Biochemistry 95 ₍₁₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
<u>0</u>	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Year Two	Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective(4)	*Biochemistry 100 (Optional) (4)
sar	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
χ	Math 9B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
(D)	Biochemistry 110A ₍₄₎	Biochemistry 110B (4)	Biochemistry 110C ₍₄₎	
ıre	Biology 102 ₍₄₎	UD Biochemistry Elective(4)	UD Biochemistry Elective(4)	
Ħ	Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Year Three	Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Ϋ́				
Ħ	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
Fo	English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
Year Four	UD Biology Elective(4)	UD Biology Elective(4)	Breadth or Elective(4)	
Χ	Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Minimum units 180
				•

Math Placement is MATH 9A

Year One

Year Two

Year Fou Year Three

Fall	Winter	Spring	Summer
Math 9A ₍₄₎	Math 9B ₄₎	Math 46 ₍₄₎	Breadth or Elective(4)
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
BCH 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100(Optional) (4)	
Biochemistry 110A(4)	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Breadth or Elective(4)	UD Biochemistry Elective(4)	
Breadth or Elective(4)	UD Biochemistry Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
UD Biology Elective(4)	UD Biology Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective(4)	Minimum units 180

Math Placement is MATH 9B

Fall	Winter	Spring	Summer
Math 9B ₍₄₎	Math 46 ₍₄₎	Breadth or Elective(4)	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
BCH 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional)(4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	UD Biochemistry Elective(4)	UD Biochemistry Elective(4)	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	STAT 100A(5)	
UD Biology Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	UD Biology Elective(4)		Minimum units 180

NOTE

BCH 100 ENROLLMENT: Students who earn a grade lower than "B-"in BIOL 5A or CHEM 08A are strongly encouraged to complete BCH 100 during their second year of residence to better prepare themselves for BCH 110A, BCH 110B, and BCH 110C.

ORGANIC CHEMISTRY-The CHEM 12 series has been renumbered to CHEM 08 series beginning 2017 fall.

MATH- A new MATH 7 series has been introduced for incoming 2017 freshman, <u>please do not enroll in this</u> <u>course as a continuing student.</u> Please continue on the current math pathway you are on.



Year Two

Year Three

Year Four

Year Three

Year Four



Biochemistry/Chemistry Emphasis

2017 Fall Catalog and Beyond B.A. Sample Program Plans

Since the Biochemistry major is rigorous and highly sequential, summer session options are included to promote timely progress to degree while maintaining a manageable course load.

Math Placement is Intermediate Algebra (ARC 35)

Fall	Winter	Spring	Summer
Intermediate Algebra 35 ₍₀₎	Math 6A ₍₄₎	Math 6B ₍₄₎	Chemistry 1A, 1LA ₍₅₎
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	Chemistry 1B, 1LB ₍₅₎
Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)			
Breadth or Elective(4)			
Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎
Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 (Optional) (4)
Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎	
Breadth or Elective ₍₄₎	Biochemistry 15 ₍₃₎	Breadth or Elective(4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Physics 2B, 2LB ₍₅₎
Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	Physics 2A, 2LA ₍₅₎	Physics 2C, 2LC ₍₅₎
Statistics 100A ₍₅₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Chemistry Elective(4)	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	UD Biochemistry Elective(4)	
UD Chemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	Minimum units 180
Fall	<u>Math Placemen</u> Winter	Spring	Summer
Math 5 ₍₄₎	Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
Biochemistry 95 ₍₁₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
		y (y	1
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	UD Biochemistry Elective(4)	
Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
			1
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Chemistry Elective ₍₄₎	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
UD Chemistry Elective(4)	Desadth on Flactive	Decodth on Elective	
	Breadth or Elective ₍₄₎	Breadth or Elective(4)	

	Fall	Winter	Spring	Summer
	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 7A ₍₄₎	Breadth or Elective(4)
ne	English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
0	Chemistry 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
<u>Year One</u>	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
Two	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Ţ	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 (Optional) (4)
Year	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
χ	Math 7B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
ee	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
	Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	UD Biochemistry Elective(4)	
II.]	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Year Three	Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
7 1		<u>, </u>		
Ħ	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Chemistry Elective(4)	
F0	English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
Year Four	UD Chemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
~	Breadth or Elective(4)	Breadth or Elective(4)	_	Minimum units 180

Math Placement is MATH 7A

Fall	Winter	Spring	Summer
Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	UD Biochemistry Elective(4)	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
GI 100	D: 1 : 104	IID CI	1
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Chemistry Elective(4)	
English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
UD Chemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	Minimum units 180

Year One

Year Four Year Three Year Two

Math Placement is MATH 7B

	Fall	Winter	Spring	Summer
	Math 7B ₍₄₎	Math 46 ₍₄₎	Breadth or Elective ₍₄₎	
	English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
3	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
	Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
1				
ol.	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
\$	Biology 5C ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
_	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
ıcaı ıwo	Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
7]				
	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
	Biology 102(4)	Chemistry 5 ₍₅₎	UD Biochemistry Elective(4)	
	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
ı calı ı ili ce	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
7				
	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Chemistry Elective ₍₄₎	
5	English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
ı calı roul	UD Chemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
I	Breadth or Elective(4)			Minimum units 180

NOTE

BCH 100 ENROLLMENT: Students who earn a grade lower than "B-"in BIOL 5A or CHEM 08A are strongly encouraged to complete BCH 100 during their second year of residence to better prepare themselves for BCH 110A, BCH 110B, and BCH 110C.

MATH-Please ensure that you follow the math pathway provided and work your way through the MATH 7 series.





Biochemistry/Biology Emphasis

2016 Fall Catalog and Prior B.A. Sample Program Plans

Since the Biochemistry major is rigorous and highly sequential, summer session options are included to promote timely progress to degree while maintaining a manageable course load.

Math Placement is Intermediate Algebra (ARC 35)

Fall Winter Spring	Summer
Intermediate Algebra 35(0) Math 6A(4) Math 6B(4)	Chemistry 1A, 1LA ₍₅₎
English 1A ₍₄₎ English 1B ₍₄₎ Breadth or Elective ₍₄₎	Chemistry 1B, 1LB ₍₅₎
English 1A ₍₄₎ English 1B ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Shellingury 12, 122 (3)
Breadth or Elective(4)	
Breadth or Elective ₍₄₎	
Chemistry 1C, 1LC ₍₅₎ Chemistry 8A/8LA ₍₄₎ Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎
Biology $5A$, $5LA_{(5)}$ Biology $5B_{(4)}$ Biology $5C_{(4)}$ *:	*Biochemistry 100 (Optional) (4)
Math 9A ₍₄₎ Math 9B ₍₄₎ Math 46 ₍₄₎	
Biology 5A, 5LA ₍₅₎ Biology 5B ₍₄₎ Math 9A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 15 ₍₃₎ Biology 5C ₍₄₎ ** Math 46 ₍₄₎ Breadth or Elective ₍₄₎	
Biochemistry 110A ₍₄₎ Biochemistry 110B ₍₄₎ Biochemistry 110C ₍₄₎	Physics 2B, 2LB ₍₅₎
Biochemistry 110A ₍₄₎ Biochemistry 110B ₍₄₎ Biology 102 ₍₄₎ Chemistry 5 ₍₅₎ UD Chemistry Elective ₍₄₎ Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Physics 2C, 2LC ₍₅₎
Statistics 100A ₍₅₎ Breadth or Elective ₍₄₎ Physics 2A, 2LA ₍₅₎	
Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎ Biochemistry 184 ₍₄₎ UD Chemistry Elective ₍₄₎	
English 1C or 1SC ₍₄₎ Biochemistry 162 ₍₅₎ UD Biochemistry Elective ₍₄₎	
English 1C or 1SC ₍₄₎ Biochemistry 162 ₍₅₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	
Breadth or Elective ₍₄₎	Minimum units 180
Math Placement is MATH 5	Summer
Math Placement is MATH 5 Fall Winter Spring	Summer Math 46(4)
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4)	Summer Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4)	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4)	
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4)	Math 46 ₍₄₎
Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4)	Math 46 ₍₄₎
Fall Winter Spring Math 9A(4) Math 9B(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4)	Math 46 ₍₄₎
Fall Winter Spring Math 9A(4) Math 9B(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4)	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring	Math 46 ₍₄₎
Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4)	Math 46 ₍₄₎
Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4) Chemistry 8A/8LA(4) Chemistry 8B/8LB(4) Chemistry 8C/8LC(4) Biology 5A, 5LA(5) Biology 5B(4) Biology 5C(4) Physics 2A, 2LA(5) Physics 2B, 2LB(5) Physics 2C, 2LC(5) Breadth or Elective(4) Biochemistry 101(3) *Biochemistry 100 (Optional) (4)	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4) Chemistry 8A/8LA(4) Chemistry 8B/8LB(4) Chemistry 8C/8LC(4) Biology 5A, 5LA(5) Biology 5B(4) Biology 5C(4) Physics 2A, 2LA(5) Physics 2B, 2LB(5) Physics 2C, 2LC(5) Breadth or Elective(4) Biochemistry 110B(4) Biochemistry 110C(4) Biochemistry 110A(4) Biochemistry 110B(4) Biochemistry 110C(4) Piclopy 102 Chemistry 5 LID Chemistry Elective	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4) Chemistry 8A/8LA(4) Chemistry 8B/8LB(4) Chemistry 8C/8LC(4) Biology 5A, 5LA(5) Biology 5B(4) Biology 5C(4) Physics 2A, 2LA(5) Physics 2B, 2LB(5) Physics 2C, 2LC(5) Breadth or Elective(4) Biochemistry 110B(4) Biochemistry 110C(4) Biochemistry 110A(4) Biochemistry 110B(4) Biochemistry 110C(4) Piclopy 102 Chemistry 5 LID Chemistry Elective	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring Math 5(4) Math 9A(4) Math 9B(4) English 1A(4) English 1B(4) Breadth or Elective(4) Biochemistry 95(1) Chemistry 1A, 1LA(5) Chemistry 1B, 1LB(5) Breadth or Elective(4) Breadth or Elective(4) Chemistry 8A/8LA(4) Chemistry 8B/8LB(4) Chemistry 8C/8LC(4) Biology 5A, 5LA(5) Biology 5B(4) Biology 5C(4) Physics 2A, 2LA(5) Physics 2B, 2LB(5) Physics 2C, 2LC(5) Breadth or Elective(4) Biochemistry 110B(4) Biochemistry 110C(4) Biochemistry 110A(4) Biochemistry 110B(4) Biochemistry 110C(4) Piclopy 102 Chemistry 5 LID Chemistry Elective	Math 46 ₍₄₎
Math Placement is MATH 5 Winter Spring	Math 46 ₍₄₎
Math Placement is MATH 5 Winter Spring	Math 46 ₍₄₎
Math Placement is MATH 5 Winter Spring	Math 46 ₍₄₎
Math Placement is MATH 5 Fall Winter Spring	Math 46 ₍₄₎

Math Placement is MATH 6A

	Fall	Winter	Spring	Summer
	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 9A ₍₄₎	Breadth or Elective(4)
ne	English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
9	Chemistry 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
<u>Year One</u>	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
\succ				
		CI OD OV D	Gr	D 14 E1 2
Two	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	Breadth or Elective ₍₄₎
L	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 (Optional) (4)
Year	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
\prec	Math 9B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
ee	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Three	Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	UD Chemistry Elective(4)	
[]	Statistics 100A ₍₅₎	Breadth or Elective(4)	Breadth or Elective(4)	
Year	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Ħ	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biochemistry Elective(4)	
<u>원</u>	English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	UD Chemistry Elective(4)	
<u>Year Four</u>	UD Biochemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Χę	Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	Minimum units 180
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Math Placement is MATH 9A

Year One

Year Four Year Three Year Two

Fall	Winter	Spring	Summer
Math 9A ₍₄₎	Math 9B ₍₄₎	Math 46 ₍₄₎	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
Chamistry 9 A /91 A	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Chemistry 8A/8LA ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Biology 5C ₍₄₎			
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	UD Chemistry Elective(4)	
Statistics 100A ₍₅₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective(4)	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biochemistry Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	UD Chemistry Elective(4)	
UD Biochemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	Minimum units 180

Math Placement is MATH 9B

Fall	Winter	Spring	Summer
Math 9B ₍₄₎	Math 46 ₍₄₎	Breadth or Elective ₍₄₎	
English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
Biochemistry 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
CI OA OX A	CI OD OLD		
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective(4)	
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
Breadth or Elective(4)	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional) (4)	
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
Biology 102 ₍₄₎	Chemistry 5 ₍₅₎	UD Chemistry Elective(4)	
Statistics 100A ₍₅₎	Breadth or Elective(4)	Breadth or Elective(4)	
Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biochemistry Elective(4)	
English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	UD Chemistry Elective ₍₄₎	
UD Biochemistry Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
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NOTE

Breadth or Elective(4)

BCH 100 ENROLLMENT: Students who earn a grade lower than "B-"in BIOL 5A or CHEM 08A are strongly encouraged to complete BCH 100 during their second year of residence to better prepare themselves for BCH 110A, BCH 110B, and BCH 110C.

Breadth or Elective(4)

Minimum units 180

Breadth or Elective(4)

ORGANIC CHEMISTRY-The CHEM 12 series has been renumbered to CHEM 08 series beginning 2017 fall.

MATH- A new MATH 7 series has been introduced for incoming 2017 freshman, <u>please do not enroll in this</u> <u>course as a continuing student.</u> Please continue on the current math pathway you are on.

