Year One

Year Two

Year Four Year Three

Year One

Year Two

Year Four Year Three

Biochemistry/Medical Sciences Emphasis

2021 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)

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₎			
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 7A ₍₄₎	Math 7B ₍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 10 ₍₅₎
Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	UD Biochemistry Elective ₍₄₎	Statistics 10(3)
Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	Breadth or Elective ₍₄₎	
T Hysics 2D, 2LD(5)	Thysics 2C, 2LC(5)	Biochemistry 98I ₍₁₎	
		Biochemistry 381(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	Math Placemer	-	Summor
	·	-	
Fall	Winter	Spring	Summer
Math 5 ₍₄₎	Winter Math 7A ₍₄₎	Spring Math 7B ₍₄₎	
Math 5 ₍₄₎ English 1A ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎	Winter Math 7A ₍₄₎ English 1B ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎	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₎ Biochemistry 96 ₍₁₎	Breadth or Elective
Math 5 ₍₄₎ English 1A ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 95 ₍₁₎ 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₎ 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 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₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎	Breadth or Elective
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 7A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8B/8LB ₍₄₎ Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍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 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₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎	Breadth or Elective
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 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₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (Optional)(4)	Breadth or Elective
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 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₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (optional) (4)	Breadth or Elective
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 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 10 ₍₅₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 _{(Optional) (4)} Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎	Breadth or Elective
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 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₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (optional) (4)	Breadth or Elective
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)	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 10 ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (Optional) (4) Biochemistry Elective ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎	Breadth or Elective
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 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 10 ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (Optional)(4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎	Breadth or Elective
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) English 1C or 1SC (4)	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 10 ₍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₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (Optional)(4) Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎ Biochemistry 120 ₍₄₎ Breadth or Elective ₍₄₎	Summer 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 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 10 ₍₅₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎	Spring Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Biochemistry 96 ₍₁₎ Chemistry 8C/8LC ₍₄₎ Physics 2C, 2LC ₍₅₎ Breadth or Elective ₍₄₎ *Biochemistry 100 (Optional)(4) Biochemistry 110C ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 98I ₍₁₎	Breadth or Elective

Math Placement is MAIH 6A					
Fall	Winter	Spring	Summer		
Math 6A ₍₄₎	Math 6B ₍₄₎	Math 7A ₍₄₎	Breadth or Elective(4)		
English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎			
Chemistry 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC(5)		
Biochemistry 95 ₍₁₎	Breadth or Elective ₍₄₎	Biochemistry 96 ₍₁₎			
Chamisture 9 A /91 A	Chamistury 9D/91 D	Chamistur OC/OLC	Breadth or Elective		
Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	*Biochemistry 100 (Optional) (4		
Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	BIOCHEIIISHY 100 (Optional) (4		
Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎			
Math 7B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 (Optional) (4)			
D' 1 '4-1104	D' 1 ' 4 - 110D	D: 1 : 4 - 110C	<u> </u>		
Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎			
Biology 102 ₍₄₎	Statistics 10 ₍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₎	Biochemistry 98I ₍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 ₍₅₎			
Breadth or Elective(4)	Breadth or Elective(4)		Minimum units 180		

Math Placement is MATH 7A Winter Spri

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 10 ₍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

Year One

Math Placement is MATH 7B

Fall	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₎	
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 10 ₍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₎	
1			

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)

Breadth or $Elective_{(4)}$

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

STAT 100A-Acceptable if taken prior to Fall 2021.



Minimum units 180