Fall



Summer

Biochemistry/Biology Emphasis

2021 Fall Catalog and Beyond B.S. 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

Winter

	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₎	
	Breadth or Elective(4)			
	Chamiston 1C 1LC	C1	Cl: 9D/9I D/4)	C1:
	Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA(4)	Chemistry 8B/8LB(4)	*Biochemistry 100 _{(Optional)(4)}
	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	BIOCHEIIISTIY TOO(Optional)(4)
	Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎	
		Biochemistry 15 ₍₃₎		
	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Statistics 10 ₍₅₎
	Biology 102 ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	- (-)
	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
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	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₎	
				Minimum units 180
	Fall	Winter	Spring	Summer
				Summer
	Math 5 ₍₄₎	Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎
		Math 7A ₍₄₎ English 1B ₍₄₎	Math 7B ₍₄₎	
	English 1A ₍₄₎	English 1B ₍₄₎		Math 46 ₍₄₎
			Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎	Math 46 ₍₄₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎	English 1B ₍₄₎	Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Math 46 ₍₄₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4)	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4)	Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC(4)	Math 46 ₍₄₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4) Biology 5B ₍₄₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎	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₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4)	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎	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₎	Math 46 ₍₄₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4) Biology 5B ₍₄₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎	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₎
	English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4) Biology 5B ₍₄₎ Physics 2A, 2LA ₍₅₎ Biochemistry 110A ₍₄₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	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₎	Math 46 ₍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₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 10 ₍₅₎	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₎
	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₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 10 ₍₅₎ Breadth or Elective ₍₄₎	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₎	Math 46 ₍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₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎ Biochemistry 110B ₍₄₎ Statistics 10 ₍₅₎	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₎
	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₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ 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₎	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₎
	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 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ 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₎	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₎ UD Biology Elective ₍₄₎	Math 46 ₍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₎	English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ 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₎	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₎ UD Biology Elective ₍₄₎ Breadth or Elective ₍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 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ 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₎	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₎ UD Biology Elective ₍₄₎	Math 46 ₍₄₎

	Fall	Winter	Spring	Summer
<u>Year One</u>	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 7A ₍₄₎	
	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₎
	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
0	Chemistry 8A/8LA(4)	Chemistry 8B/8LB(4)	Chemistry 8C/8LC(4)	*Biochemistry 100 (Optional) (4)
Year Two	Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	
<u>ear</u>	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
$\stackrel{\sim}{\sim}$	Math 7B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
(D)	Biochemistry 110A ₍₄₎	Biochemistry 110B (4)	Biochemistry 110C ₍₄₎	
ıre	Biology 102 ₍₄₎	Statistics 10 ₍₅₎	UD Biochemistry Elective(4)	
Year Three	Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
ear				
Χ				
Year Four	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

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₎	
	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)	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

Year One

Year Two

Year Fou Year Three

Year Two

Math Placement is MATH 7B

<u> </u>	Winter	Spring	Summer
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₎	
	Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional)(4)	
		T	1
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₎		
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₎	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.

STAT 8/48-Please consult with your advisor if you credit was earned from high school or community college.

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