Fall



Summer

Biochemistry/Biology Emphasis

2017 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)	
ĺ	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)
l	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 _{(Optional)(4)}
Ì	Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎	
	1111111 / 11(1)	Biochemistry 15 ₍₃₎	1714011 10(1)	
		, , , , , , , , , , , , , , , , , , , ,		1
	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₎	
Ĺ				
	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
	Fall Math 5 ₍₄₎	Winter Math 7A ₍₄₎	Spring Math 7B ₍₄₎	Summer Math 46 ₍₄₎
	·			,
	Math 5 ₍₄₎	Math 7A ₍₄₎	Math 7B ₍₄₎	Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎	Math 7A ₍₄₎ English 1B ₍₄₎	Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎	Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎	Math 7A ₍₄₎ English 1B ₍₄₎	Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Math 46 ₍₄₎
[Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎	Math 7A ₍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₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎	Math 7A ₍₄₎ English 1B ₍₄₎	Math 7B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4)	Math 7A ₍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₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4) Biology 5B ₍₄₎	Math 7A ₍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₎
 	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 7A ₍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)	Math 46 ₍₄₎
	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₎	Math 7A ₍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)}	Math 46 ₍₄₎
	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₎	Math 7A ₍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 100A ₍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₎
	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₎	Math 7A ₍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)}	Math 46 ₍₄₎
	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₎	Math 7A ₍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 100A ₍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₎ UD Biochemistry Elective ₍₄₎	Math 46 ₍₄₎
	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₎	Math 7A ₍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 100A ₍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₎ UD Biochemistry Elective ₍₄₎	Math 46 ₍₄₎
	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₎	Math 7A ₍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 100A ₍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 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₎	Math 7A ₍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 100A ₍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₎ Chemistry 1C, 1LC ₍₅₎
	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₎	Math 7A ₍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 100A ₍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₎	Math 46 ₍₄₎

	Fall	Winter	Spring	Summer
	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 7A ₍₄₎	
<u>ne</u>	English 1A ₍₄₎	English 1B ₍₄₎	Biology 5A, 5LA ₍₅₎	
Year One	CHEM 1W ₍₃₎	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎
ea	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
7				
O		CI CI CI CI CI D		▼D: 1 : 4 100
WC	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₎	
ear	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
X	Math 7B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
·				_
o)	Biochemistry 110A ₍₄₎	Biochemistry 110B (4)	Biochemistry 110C ₍₄₎	
Three	Biology 102 ₍₄₎	Statistics 100A ₍₅₎	UD Biochemistry Elective(4)	
II	Breadth or Elective ₍₄₎	Breadth or Elective(4)	Breadth or Elective(4)	
Year				
\times				
nr	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)	
Ϋ́ε				Minimum units 180
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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₎	
	CI OD (OLD (A)	CI CI OCION CIA	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₎	
	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)		
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

Math Placement is MATH 7B

	Fall	Winter	Spring	Summer
431	Math 7B ₍₄₎	Math 46 ₍₄₎		
<u>Jue</u>	English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective ₍₄₎	
J	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
<u>Year One</u>	BCH 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
~				
OI	Chamistary 9 A /9T A (4)	Chamisture OD/OLD(4)	Chamister 9C/9I C(4)	
Year Two	Chemistry 8A/8LA(4)	Chemistry 8B/8LB(4)	Chemistry 8C/8LC(4)	
	Biology 5C ₍₄₎	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
ea	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
$\stackrel{\smile}{\prec}$		Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional)(4)	
	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
<u>.ee</u>	Biology 102 ₍₄₎	STAT 100A(5)	UD Biochemistry Elective(4)	
린	Breadth or Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Year Three	Breadth or Elective ₍₄₎	Breadth or Elective(4)		
Ke				
•	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
<u>[</u> 5]	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)	
Ye	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 100A-If you have received STAT048 credit, you will need to complete STAT100B in place of STAT100A to avoid duplication of credit.



Fall



Summer

Biochemistry/Biology Emphasis

2016 Fall Catalog and Prior 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

_	Intermediate Algebra 35 ₍₀₎	Math 6A ₍₄₎	Math 6B ₍₄₎	Chemistry 1A, 1LA ₍₅₎
Year One	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)	
ea	Breadth or Elective(4)		Breadth or Elective(4)	
~	Breadth or Elective(4)			
OI	Chemistry 1C, 1LC ₍₅₎	Chemistry 8A/8LA(4)	Chemistry 8B/8LB(4)	Chemistry 8C/8LC(4)
Š	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	Biology 5C ₍₄₎	*Biochemistry 100 _{(Optional)(4)}
rear 1 wo	Math 9A ₍₄₎	Math 9B ₍₄₎	Math 46 ₍₄₎	, , , , ,
70	1714111 77 1(4)	Biochemistry 15 ₍₃₎	1714111 10(4)	
ור		Brochemistry 13(s)		
) I	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	Statistics 100A ₍₅₎
	Biology 102(4)	Breadth or Elective(4)	UD Biochemistry Elective(4)	
1	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
	Chamistary 100	Diaghamiatus 194	LID Dielegy Fleeting	
3	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
T T T T T T T T T T T T T T T T T T T	English 1C or 1SC ₍₄₎	Biochemistry 162 ₍₅₎	UD Biochemistry Elective(4)	
į	UD Biology Elective(4)	UD Biology Elective(4)	Breadth or Elective(4)	
4				Minimum units 180
		Math Placement	is MATH 5	
	Fall	Winter	Spring	Summer
	Fall Math 5(a)	Winter Math 9A(1)	Spring Math 9B(a)	Summer Math 46(a)
I	Math 5 ₍₄₎	Math $9A_{(4)}$	Math 9B ₍₄₎	Summer Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎	Math 9A ₍₄₎ English 1B ₍₄₎	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎	Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎	Math $9A_{(4)}$	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎	
	Math 5 ₍₄₎ English 1A ₍₄₎	Math 9A ₍₄₎ English 1B ₍₄₎	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎	Math 46 ₍₄₎
•	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎	Math 46 ₍₄₎
•	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4)	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4)	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC(4)	Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4) Biology 5B ₍₄₎	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC(4) Breadth or Elective ₍₄₎	Math 46 ₍₄₎
	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4)	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎	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₎	Math 46 ₍₄₎
•	Math 5 ₍₄₎ English 1A ₍₄₎ Biochemistry 95 ₍₁₎ Breadth or Elective ₍₄₎ Chemistry 8A/8LA(4) Biology 5B ₍₄₎	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎	Math 9B ₍₄₎ Biology 5A, 5LA ₍₅₎ Chemistry 1B, 1LB ₍₅₎ Breadth or Elective ₍₄₎ Chemistry 8C/8LC(4) Breadth or Elective ₍₄₎	Math 46 ₍₄₎
	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 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	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)	Math 46 ₍₄₎
	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₎	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	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₎	Math 46 ₍₄₎
	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₎	Math 9A ₍₄₎ English 1B ₍₄₎ Chemistry 1A, 1LA ₍₅₎ Chemistry 8B/8LB(4) Biology 5C ₍₄₎ Physics 2B, 2LB ₍₅₎ Biochemistry 15 ₍₃₎	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₎	Math 46 ₍₄₎
	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₎	Math 9A ₍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₎ UD Biochemistry Elective ₍₄₎	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₎	Math 46 ₍₄₎
	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₎	Math 9A ₍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₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	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₎	Math 46 ₍₄₎
TIMOS TOTAL	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₎	Math 9A ₍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₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	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₎ UD Biology Elective ₍₄₎	Math 46 ₍₄₎
	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₎	Math 9A ₍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₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎ Biochemistry 184 ₍₄₎ Biochemistry 162 ₍₅₎	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 Elective ₍₄₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ UD Biology Elective ₍₄₎ Statistics 100A ₍₅₎	Math 46 ₍₄₎
241 144	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₎	Math 9A ₍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₎ UD Biochemistry Elective ₍₄₎ Breadth or Elective ₍₄₎ Breadth or Elective ₍₄₎	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₎ UD Biology Elective ₍₄₎	Math 46 ₍₄₎

	Fall	Winter	Spring	Summer
	Math 6A ₍₄₎	Math 6B ₍₄₎	Math 9A ₍₄₎	
<u>rear One</u>	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₎
2	Biochemistry 95 ₍₁₎	Breadth or Elective(4)	Breadth or Elective(4)	
1				
2	Chemistry 8A/8LA(4)	Chemistry 8B/8LB(4)	Chemistry 8C/8LC(4)	*Biochemistry 100 (Optional) (4)
1	Biology 5B ₍₄₎	Biology 5C ₍₄₎	Breadth or Elective(4)	
ıcalıwo	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
1	Math 9B ₍₄₎	Biochemistry 15 ₍₃₎	Math 46 ₍₄₎	
•				
ומ	Biochemistry 110A ₍₄₎	Biochemistry 110B (4)	Biochemistry 110C ₍₄₎	
TITLE	Biology 102 ₍₄₎	UD Biochemistry Elective(4)	UD Biochemistry Elective(4)	
	Breadth or Elective(4)	Breadth or Elective ₍₄₎	Breadth or Elective ₍₄₎	
1 Cal				
	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
ı cai ı oui	English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	Statistics 100A ₍₅₎	
1 1	UD Biology Elective(4)	UD Biology Elective(4)	Breadth or Elective(4)	
	OD Biology Elective(4)	OD Biology Elective(4)	Dicadul of Diccuve(4)	Minimum units 180

Math Placement is MATH 9A

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₎	
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₎	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₎		
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)			Minimum units 18

Year One

Year Two

Year Fou Year Three

Math Placement is MATH 9B

	Fall	Winter	Spring	Summer
451	Math 9B ₍₄₎	Math 46 ₍₄₎		
<u>Year One</u>	English 1A ₍₄₎	English 1B ₍₄₎	Breadth or Elective(4)	
r C	Chemistry 1A, 1LA ₍₅₎	Chemistry 1B, 1LB ₍₅₎	Chemistry 1C, 1LC ₍₅₎	
/ea	BCH 95 ₍₁₎	Biology 5A, 5LA ₍₅₎	Biology 5B ₍₄₎	
/				
-1		1		
80	Chemistry 8A/8LA ₍₄₎	Chemistry 8B/8LB ₍₄₎	Chemistry 8C/8LC ₍₄₎	
Ĺ	Biology 5C ₍₄₎	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Year Two	Physics 2A, 2LA ₍₅₎	Physics 2B, 2LB ₍₅₎	Physics 2C, 2LC ₍₅₎	
\prec		Biochemistry 15 ₍₃₎	*Biochemistry 100 (Optional)(4)	
	Biochemistry 110A ₍₄₎	Biochemistry 110B ₍₄₎	Biochemistry 110C ₍₄₎	
ee	Biology 102 ₍₄₎	Breadth or Elective(4)	UD Biochemistry Elective(4)	
II II	Breadth or Elective(4)	UD Biochemistry Elective(4)	Breadth or Elective(4)	
Year Three	Breadth or Elective(4)	Breadth or Elective(4)		
<u>Ye</u>				
	Chemistry 109 ₍₄₎	Biochemistry 184 ₍₄₎	UD Biology Elective(4)	
<u>[</u> 5]	English 1C or 1SC(4)	Biochemistry 162 ₍₅₎	STAT 100A(5)	
Year Four	UD Biology Elective(4)	Breadth or Elective(4)	Breadth or Elective ₍₄₎	
Ye	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, please do not enroll in this course as a continuing student. Please continue on the current math pathway you are on.

STAT 100A-If you have received STAT048 credit, you will need to complete STAT100B in place of STAT100A to avoid duplication of credit.

