

BIOLOGY (BS)

Program Map

Suggested four year course schedule with MATH 0999 or lower

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
AREA E	World Culture	3
BIOL 1715	Professionalism and Careers in Biology (recommended Area F Guided Elective; minimum grade of C)	1
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C)	3
MATH 0999B or MATH 0999C	Support for College Algebra B or Support for College Algebra C	
Credit Hours		14
Spring		
BIOL 1231K	minimum grade of C	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) ¹	4
Credit Hours		15
Second Year		
Fall		
AREA E	Behavioral Science	3
BIOL 1232K	minimum grade of C	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
Credit Hours		16
Spring		
AREA I	Elective	2
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3

PHYS 1111 & PHYS 1311	Introductory Physics I and Introductory Physics I Lab (minimum grade of C)	4
Credit Hours		17

Third Year

Fall

BIOL 3215K	Cell Biology (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
CHEM 3111 & CHEM 3311	Organic Chemistry I and Organic Chemistry I Lab (minimum grade of C)	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab (minimum grade of C)	4
Credit Hours		16

Spring

BIOL 3217K	Ecology (minimum grade of C)	4
AREA I	Elective	1
AREA H	BIOL Cell/Molecular Senior Elective (minimum grade of C)	4
CHEM 3112 & CHEM 3312	Organic Chemistry II and Organic Chemistry II Lab (minimum grade of C)	4
Credit Hours		13

Fourth Year

Fall

Select one of the following:		2-4
BIOL 4392	Undergraduate Research (option #1; minimum grade of C)	
BIOL 4698	Internship (option #2; minimum grade of C)	
4 additional hours from List 1-3 of Area H (option #3; minimum grade of C)		
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Organismal Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
PEDS Activity		1
POLS 1101	American Government	3
Credit Hours		15-17

Spring

AREA C	Humanities	3
AREA I	Elective	4
BIOL 4393	Research Presentation (minimum grade of C)	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
AREA H	BIOL Senior Elective Option (minimum grade of C)	4
Credit Hours		17
Total Credit Hours		123-125

¹ MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area F.

Suggested four year course schedule with MATH 1111 College Algebra

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
BIOL 1231K	minimum grade of C	4
BIOL 1715	Professionalism and Careers in Biology (recommended Area F Guided Elective; minimum grade of C)	1
ENGL 1101	English Composition I (minimum grade of C)	3
MATH 1111	College Algebra (minimum grade of C)	3
Credit Hours		15
Spring		
BIOL 1232K	minimum grade of C	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) ¹	4
Credit Hours		15
Second Year		
Fall		
AREA E	Behavioral Science	3
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
Credit Hours		16
Spring		
AREA E	World Culture	3
AREA I	Elective	2
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
PHYS 1111 & PHYS 1311	Introductory Physics I and Introductory Physics I Lab (minimum grade of C)	4
Credit Hours		16

Third Year

Fall

BIOL 3215K	Cell Biology (minimum grade of C)	4
BIOL 3216K	Genetics (minimum grade of C)	4
CHEM 3111 & CHEM 3311	Organic Chemistry I and Organic Chemistry I Lab (minimum grade of C)	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab (minimum grade of C)	4

Credit Hours 16

Spring

BIOL 3217K	Ecology (minimum grade of C)	4
AREA I	Elective	1
AREA H	BIOL Cell/Molecular Senior Elective (minimum grade of C)	4
CHEM 3112 & CHEM 3312	Organic Chemistry II and Organic Chemistry II Lab (minimum grade of C)	4

Credit Hours 13

Fourth Year

Fall

Select one of the following: 2-4

BIOL 4392	Undergraduate Research (option #1; minimum grade of C)	
BIOL 4698	Internship (option #2; minimum grade of C)	
4 additional hours from List 1-3 of Area H (option #3; minimum grade of C)		
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Organismal Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
PEDS Activity		1
POLS 1101	American Government	3

Credit Hours 15-17

Spring

AREA C	Humanities	3
AREA I	Elective	4
BIOL 4393	Research Presentation (minimum grade of C)	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
AREA H	BIOL Senior Elective Option (minimum grade of C)	4

Credit Hours 17

Total Credit Hours 123-125

¹ MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area F.

Suggested four year course schedule with MATH 1113 Pre-Calculus or higher.

Course	Title	Credit Hours
First Year		
Fall		
Area B2	ITDS 1779 (2), LEAD 1705 (2), PERS 1506 (1; may be repeated with different topic), PERS 1507 (2)	1
AREA C	Fine Arts	3
BIOL 1231K	minimum grade of C	4
BIOL 1715	Professionalism and Careers in Biology (recommended Area F Guided Elective; minimum grade of C)	1
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab (minimum grade of C)	4
ENGL 1101	English Composition I (minimum grade of C)	3
Credit Hours		16
Spring		
BIOL 1232K	minimum grade of C	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab (minimum grade of C)	4
ENGL 1102	English Composition II (minimum grade of C)	3
MATH 1113	Pre-Calculus (minimum grade of C) ¹	4
Credit Hours		15
Second Year		
Fall		
AREA E	Behavioral Science	3
BIOL 2206K	Organismic Biology I (minimum grade of C)	4
CHEM 3111 & CHEM 3311	Organic Chemistry I and Organic Chemistry I Lab (minimum grade of C)	4
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2
STAT 1401	Elementary Statistics (minimum grade of C)	3
Credit Hours		16
Spring		
AREA E	World Culture	3
AREA I	Elective	2
BIOL 2207K	Organismic Biology II (minimum grade of C)	4
CHEM 3112 & CHEM 3312	Organic Chemistry II and Organic Chemistry II Lab (minimum grade of C)	4
Area B1	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3
Credit Hours		16
Third Year		
Fall		
AREA C	Humanities	3
BIOL 3215K	Cell Biology (minimum grade of C)	4

BIOL 3216K	Genetics (minimum grade of C)	4
PHYS 1111 & PHYS 1311	Introductory Physics I and Introductory Physics I Lab (minimum grade of C)	4
Credit Hours		15
Spring		
AREA G	Elective (minimum grade of C)	3
BIOL 3217K	Ecology (minimum grade of C)	4
AREA I	Elective	1
AREA H	BIOL Cell/Molecular Senior Elective (minimum grade of C)	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab (minimum grade of C)	4
Credit Hours		16
Fourth Year		
Fall		
Select one of the following:		2-4
BIOL 4392	Undergraduate Research (option #1; minimum grade of C)	
BIOL 4698	Internship (option #2; minimum grade of C)	
4 additional hours from List 1-3 of Area H (option #3; minimum grade of C)		
BIOL 4795	Capstone Senior Seminar (minimum grade of C)	2
AREA H	BIOL Organismal Senior Elective (minimum grade of C)	4
HIST 2111 or HIST 2112	U. S. History to 1865 or U. S. History since 1865	3
PEDS Activity		1
POLS 1101	American Government	3
Credit Hours		15-17
Spring		
AREA I	Elective	4
BIOL 4393	Research Presentation (minimum grade of C)	2
AREA H	BIOL Ecology/Evolution Senior Elective (minimum grade of C)	4
AREA H	BIOL Senior Elective Option (minimum grade of C)	4
Credit Hours		14
Total Credit Hours		123-125

¹ MATH 1113 Pre-Calculus has 4 credits. Count 3 credits in Area A and 1 credit in Area F.