

FRESHMAN	COURSES	CREDITS	TOTAL
FALL	AIC1140, APEX 1 (or AIC1100 Introduction to ACE (3 cr))	1	14
	ENG1201, English Composition or ENG 1601 (Gen Ed category 4)	3	
	BIO1400, Biology I with lab BIO1401 (Gen Ed category 1)	4	
	Gen Ed course (category 2 or 4)	3	
	Gen Ed course (category 2 or 4)	3	
SPRING	ENG1202 Analytical Writing or ENG1602 (Gen Ed category 3)	3	17
	BIO1500, Biology II with lab BIO1501 (Gen Ed category 1)	4	
	MAT1840, College Algebra and Trig	4	
	Gen Ed course (category 2 or 4)	3	
	Elective	3	
<b>SOPHOMORE</b>			
FALL	BIO2400, Comparative Vertebrate Anatomy, with lab (BIO2401)	4	13
	CHE1600, General Chemistry I (includes CHE1602, Review)	4	
	CHE1601, General Chemistry Lab I	1	
	MAT2400, Calculus I	4	
SPRING	AIC2142, APEX 2	2	17
	BIO2430, Microbiology, with lab (BIO2431)	4	
	CHE1700, General Chemistry II (includes CHE1702, Review)	4	
	CHE1701, General Chemistry Lab II	1	
	MAT2004, Biostatistics (Gen Ed category 1)	3	
	Gen Ed course (category 2, 3 or 4)	3	
<b>JUNIOR</b>			
FALL	BIO3450, Genetics, with lab (BIO3451)	4	14
	CHE2400, Organic Chemistry I	3	
	CHE2401, Organic Chemistry Lab I	1	
	Gen Ed course (category 2, 3 or 4)	3	
	Gen Ed course (category 2, 3 or 4)	3	
SPRING	AIC3140, APEX 3	1	16
	BIO3440, Ecology, with lab	4	
	BIO3XXX, Biology elective, with lab	4	
	CHE2500, Organic Chemistry II	3	
	CHE2501, Organic Chemistry Lab II	1	
	Gen Ed course (Gen Ed category 2, 3 or 4)	3	
<b>SENIOR</b>			
FALL	AIC4140, APEX 4	1	16
	BIO4803, Senior Seminar in Biology	3	
	BIO3XXX, Biology elective, with lab	4	
	PHY1600, General Physics I (with PHY1602, Review)	4	
	PHY1601, General Physics I lab	1	
	Elective	3	
SPRING	BIO4350, Evolution	3	14
	BIO3XXX, Biology elective, with lab	4	
	PHY1800, General Physics II (with PHY1802, Review)	3	
	PHY1801, General Physics II lab	1	
	Elective	3	
		<b>TOTAL CREDITS:</b>	<b>121</b>

Notes:

\*A student will incur additional tuition charges in any semester in excess of 17 credits.

\*\*A student must apply to the Dean for permission to take more than 18 credits in any given semester.

**Major Requirements:**

**All biology majors must complete the following required biology core of courses that include:**

_____	BIO1400	Biology I, with lab, BIO1401 (4 cr)
_____	BIO1500	Biology II, with lab, BIO1501 (4 cr)
_____	BIO2400	Comparative Vertebrate Anatomy, with lab, BIO2401 (4 cr)
_____	BIO3440	Ecology, with lab, BIO3441 (4 cr)
_____	BIO3450	Genetics, with lab, BIO3451 (4 cr)
_____	BIO4350	Evolution
_____	BIO4803	Senior Seminar in Biology

**And, one of the following courses:**

_____	BIO2430	Microbiology, with lab, BIO2431 (4 cr)	
_____	BIO3400	Cell Biology, with lab, BIO3401 (4 cr)	_____ CREDITS

**All biology majors must complete a minimum of 12 elective credits in biology courses at or above the 3000 level in addition to the required biology core. No more than one semester of BIO4698, 4798, 4833, or 4834 may be counted towards satisfying the requirements of the biology major.**

_____	BIO_____	_____

\_\_\_\_\_ CREDITS

**All biology majors must also complete the required core in allied fields:**

_____	CHE1600	General Chemistry I, with review CHE1602 and lab CHE1601 (5 cr)
_____	CHE1700	General Chemistry II, with review CHE1702 and lab CHE1701 (5 cr)
_____	CHE2400	Organic Chemistry I, with lab CHE2401 (4 cr)
_____	CHE2500	Organic Chemistry II, with lab CHE2501 (4 cr)
_____	PHY1600	General Physics I, with review PHY1602 and lab PHY1601 (5 cr)
_____	PHY1800	General Physics II, with review PHY1802 and lab PHY1801 (5 cr)
_____	MAT2004	Biostatistics (Gen Ed category 1)

\_\_\_\_\_ CREDITS

**Additionally, all biology majors must complete two of the following courses:**

_____	MAT1840	College Algebra and Trigonometry (4 cr)
_____	MAT2400	Calculus I (4 cr)
_____	MAT2500	Calculus II, with lab MAT2501 (4 cr)

\_\_\_\_\_ CREDITS

**By appropriate selection of electives, students may focus their studies on any of the following areas:**

- Bio-Education (see education department information for professional requirements for teacher education)
- Biomedical (for students interested in medical professions)
- Cell and Molecular Biology
- Ecology/Environmental Science
- General Biology
- Zoology

<b>Content Category #1: Exploring Scientific World</b>			<b>7 or 10 credits*</b>
Requirements: 1 Math Course (3 cr) & 1 Science course w/Lab (4 cr). A 2 <sup>nd</sup> science course*, with or without lab, may be completed in lieu of one INT course.			
Choose 1	Math	MAT1310, MAT1430, MAT2004, MAT2030, PSY/CRJ2302	
Choose 1	SCIENCE with LAB	BIO1020/1021, BIO1100/1101, BIO1110/1111, BIO1130/1131, BIO1200/1201, BIO1300/1301, BIO1400/1401, BIO1500/1501, CHE1100/1101, CHE1110/1111, CHE1200/1201, CHE1600/1601/1602, PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051, PHY1600/1601/1602	
*OPTION: Choose 1	SCIENCE with/without LAB (Choose this option OR a 3 <sup>rd</sup> INT, Category 3)	BIO1020/1021, BIO1100/1101, BIO1110/1111, BIO1130/1131, BIO1200/1201, BIO1300/1301, BIO1400/1401, BIO1500/1501, CHE1100/1101, CHE1110/1111, CHE1200/1201, CHE1600/1601/1602, PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051, PHY1600/1601/1602	
<b>Content Category #2: Understanding Self and Others</b>			<b>9 credits</b>
Requirements: 1 course in each category: Self Context (3 cr), US Context (3 cr), Global Context (3 cr)			
Choose 1	Self Context	PSY1401, PSY1501, SOC1010, SOC1100, SOC1400	
Choose 1	US Context	AMS1100, ECO1000, ECO1401, ECO1402, HST1510, HST1520, HST1600, PCH1030, POL1000, POL1400	
Choose 1	Global Context	ECO1010, HST1400, HST1410, HST1420, HST1430, HST1500, IBS1420, PCH2030, PHI2010, PHI2030, POL1500	
<b>Content Category #3: Exploring Interdisciplinarity</b>			<b>9 or 12 credits*</b>
Requirements: ENG1202/1602 (3 cr) AND 2 (or 3*) Interdisciplinary (INT) courses (6 or 9 cr)			
Choose 1	Analytical Writing	ENG1202 or ENG1602	
Choose 2	Interdisciplinary courses	INT2100, INT2101, INT2102, INT2103, INT2104, INT2105, INT2106, INT2107, INT2108, INT2109	
*OPTION: Choose 1	Interdisciplinary: a 3 <sup>rd</sup> INT course (OR a science course, cat 1)	INT2100, INT2101, INT2102, INT2103, INT2104, INT2105, INT2106, INT2107, INT2108, INT2109	
<b>Content Category #4: Exploring the Arts and Humanities</b>			<b>9 credits</b>
Requirements: 1 course in each category: Arts (3 cr) and Humanities (3 cr)			
Choose 1	English Composition	ENG1201 or ENG1601	
Choose 1	Arts	ART1000, COM2460, COM3290, MUSXXX (any 3 cr course), THR1400, VDA2640	
Choose 1	Humanities	ENG2XXX (any 3 cr literature course), PHI1000, PHI1200, PHI1400, Foreign Language course (intro or intermediate)	
<b>Content Category #5: Developing Professional Readiness</b>			<b>5 or 7 credits</b>
Requirements: APEX 1 – 4 (5 cr) OR AIC1100 (3 cr) & AIC			
Choose 1	APEX or ACE	AIC1100 (3 cr) or AIC1140 (1 cr)	
Choose 1	APEX	AIC2142 (2 cr)	
Choose 1	APEX	AIC3140 (1 cr)	
Choose 1	APEX	AIC4140 (1 cr)	
Choose 1 (AIC Online or RNtoBSN programs only)	APEX for special programs	AIC Online program only: AIC4141 (3 cr) AIC RN to BSN program only: NUR4600 (3 cr)	