

FRESHMAN	COURSES	CREDITS	TOTAL
FALL	AIC1140, APEX 1 (or AIC1100 Introduction to ACE (3 cr))	1	14
	ENG1201, English Composition	3	
	BIO1400, Biology I with lab (BIO1401)	4	
	Gen Ed course (Civic/Soc Resp or Human Cult/Exp)***	3	
	Gen Ed course (Civic/Soc Resp or Human Cult/Exp)***	3	
SPRING	ENG1202 Analytical Writing	3	17
	BIO1500, Biology II with lab (BIO1501)	4	
	MAT1840, College Algebra and Trig	4	
	Gen Ed course (Civic/Soc Resp or Human Cult/Exp)***	3	
	Elective	3	
SOPHOMORE			
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	AIC2140, APEX 2	1	16
	BIO2430, Microbiology, with lab (BIO2431)	4	
	CHE1700, General Chemistry II (includes CHE1702, Review)	4	
	CHE1701, General Chemistry Lab II	1	
	MAT2004, Biostatistics (Gen Ed – Quant Lit)	3	
	Gen Ed course (Civic/Soc Resp or Human Cult/Exp)***	3	
JUNIOR			
FALL	BIO3450, Genetics, with lab (BIO3451)	4	14
	CHE2400, Organic Chemistry I	3	
	CHE2401, Organic Chemistry Lab I	1	
	Gen Ed course (Civic/Soc Resp or Human Cult/Exp)***	3	
	Gen Ed course (Civic/Soc Resp or Human Cult/Exp)***	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 (Civic/Soc Resp or Human Cult/Exp)***	3	
SENIOR			
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	
		TOTAL CREDITS:	120

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.

*** General Education courses must be selected to satisfy the General Education requirements in Civic and Social Responsibility, Human Culture and Expression, and Scientific and Quantitative Literacy.

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

_____ 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

Plus, the following General Education courses (each line represents one course from the list):

● **Personal and Professional Development (4 courses, 4 credits or 6 credits (ACE students) total)**

- _____ APEX 1: AIC1140 (1 cr) or AIC1100 Introduction to ACE (3 cr)
- _____ APEX 2: AIC2140 (1 cr)
- _____ APEX 3: AIC3140 (1 cr)
- _____ APEX 4: AIC4140 (1 cr)

● **Civic and Social Responsibility: (4 courses, 12 credits total, with at least 1 course in each area)**

- _____ **Individual and Interpersonal Behavior:** PSY1401, PSY1501, SOC1010, SOC1100, SOC1400
- _____ **American Heritage/Society:** AMS1100, ECO1000, ECO1401, ECO1402, HST1510, HST1520, HST1600, POL1000, POL1400
- _____ **Global Perspective:** ECO1010, HST1400, HST1410, HST1420, HST1430, HST1500, HST2440, IBS1420, POL1500
- _____ Any additional course from the 3 subcategories listed above

● **Human Culture and Expression: (5 courses, 15 credits total, with 2 courses in Composition and Communication And...**

- _____ **Composition and Communication:** ENG1201 OR ENG1601
- _____ **Composition and Communication:** ENG1202 OR ENG1602

... And 2 courses in 2 different areas, And...

- _____ **Language and Literature:** Any ENG2XXX-level or higher literature course OR any elementary or intermediate foreign language
- _____ **Visual and Fine Arts:** ART1000, ART1010, ART1030, ART1100, ART1120, COM2460, COM3290, MUSXXXX, THR1400, VDA2640
- _____ **Philosophy and Ethics:** PHI1000, PHI1200, PHI1400, PHI2010, PHI2030

...And 1 additional course from any of the 3 areas above

_____ Additional course from 3 subcategories listed above

● **Scientific Perspectives and Inquiry: (2 courses with labs, 8 credits total including 2 credits in Lab)**

- _____ BIO1020/1021, BIO1100/1101, BIO1110/1111, BIO1130/1131,* BIO1200/1201;* BIO1210/1211; *BIO1300/1301, *BIO1400/1401, *BIO1500/1501; CHE1100/1101, CHE1110/1111, CHE1200/1201, CHE1600/1601, CHE1700/1701; PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051, PHY1600/1601, PHY1800/1801
- _____ BIO1020/1021, BIO1100/1101, BIO1110/1111, BIO1130/1131,* BIO1200/1201;* BIO1210/1211; *BIO1300/1301, *BIO1400/1401, *BIO1500/1501; CHE1100/1101, CHE1110/1111, CHE1200/1201, CHE1600/1601, CHE1700/1701; PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051, PHY1600/1601, PHY1800/1801

**Restricted to students for which course is a major requirement*

● **Quantitative Literacy: (1 course, 3 credits total)**

- _____ MAT1310, 1430, 2004, 2030; PSY2302/CRJ2302

When counting credits, do not include those for courses included in the major requirements.

_____ CREDITS

Plus, enough elective courses to reach a minimum of 120 total credits.

- _____ Course: _____

_____ TOTAL CREDITS
(120 min req for graduation)