

FRESHMAN	COURSES	CREDITS	TOTAL
FALL	AIC1005 Pthwys Coll Success or AIC1100 Intro to ACE (3 cr) (Gen Ed Cat 5)	3	14
	ENG 1200, Intro Acad Writing or ENG1201, English Comp (Gen Ed Cat 4)	3	
	BIO1500, Biology II with lab (1501) (Gen Ed category 1)	4	
	MAT1840, College Algebra and Trig (See Math Note, below)	4	
SPRING	ENG1202 Analytical Writing (Gen Ed category 3)	3	17
	BIO1400, Biology I with lab (1401) (Gen Ed category 1)	4	
	MAT2400, Calculus I	4	
	Gen Ed course (category 2 or 4)	3	
	Gen Ed course (category 2 or 4)	3	
SOPHOMORE			
FALL	BIO2400, Comparative Vertebrate Anatomy, with lab (2401)	4	14
	CHE1600, General Chemistry I with lab (1601)	4	
	Elective	3	
	Gen Ed course (category 2 or 4)	3	
SPRING	BIO2430, Microbiology, with lab (BIO2431)	4	14
	CHE1700, General Chemistry II with lab (1701)	4	
	MAT2004, Biostatistics (Gen Ed category 1)	3	
	Gen Ed course (category 2, 3 or 4)	3	
JUNIOR			
FALL	BIO3XXX, Biology elective, with lab	4	14
	CHE2400, Organic Chemistry I with lab (2401)	4	
	Gen Ed course (category 2, 3 or 4)	3	
	Gen Ed course (category 2, 3 or 4)	3	
SPRING	AIC3005, Pathways for Professional Success	2	17
	BIO3440, Ecology, with lab (3441)	4	
	BIO3450, Genetics, with lab (3451)	4	
	CHE2500, Organic Chemistry II with lab (2501)	4	
	Gen Ed course (Gen Ed category 2, 3 or 4)	3	
SENIOR			
FALL	BIO4803, Senior Seminar in Biology	3	14
	BIO3XXX, Biology elective, with lab	4	
	PHY1600, General Physics I with lab (1601)	4	
	Elective or BIO4833, Research Problems or BIO4899 Biology Internship	3	
SPRING	BIO4350, Evolution	3	16
	PHY1800, General Physics II with lab (1801)	4	
	BIO4833, Research Problems or BIO4899 Biology Internship or Elective	3	
	Elective	3	
	Elective	3	
		TOTAL CREDITS:	120

Notes:

*A student will incur additional tuition charges in any semester in excess of 18 credits.

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

Math Note: It is recommended that students needing additional support in Math enroll in MAT1630, College Algebra in first year fall term. This will push the MAT1840 and MAT2400 sequence to Fall and Spring, Year 2, respectively. MAT1630 is a general elective.

List of Requirements (all courses are 3 credits unless otherwise noted)

Major Requirements:

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

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

And, one of the following courses:

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

All biology majors must choose one of the following courses:

_____ BIO4833	Research Problems	
_____ BIO4899	Biology Internship	_____ CREDITS

All biology majors must complete a minimum of 8 elective credits in biology courses at or above the 3000 level in addition to the required biology core. CHE3200 with laboratory may be accepted as elective courses in biology. No more than one semester of BIO4698, 4798, 4833, or 4834 may be counted towards satisfying the requirements of the biology major.

_____ BIO _____	_____	
_____ BIO _____	_____	
_____ BIO _____	_____	_____ CREDITS

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

_____ CHE1600	General Chemistry I, with laboratory CHE1601 (4 cr)	
_____ CHE1700	General Chemistry II, with laboratory CHE1701 (4 cr)	
_____ CHE2400	Organic Chemistry I, with laboratory CHE2401 (4 cr)	
_____ CHE2500	Organic Chemistry II, with laboratory CHE2501 (4 cr)	
_____ PHY1600	General Physics I, with laboratory PHY1601 (4 cr)	
_____ PHY1800	General Physics II, with laboratory PHY1801 (4 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

General Education Requirements Catalog Year: 2024-2025

Content Category #1: Exploring Scientific World			7 or 10 credits*
Requirements: 1 Math Course (3 cr) & 1 Science course w/Lab (4 cr). A 2 nd science course*, with or without lab, may be completed in lieu of one INT course.			
Choose 1	Math	MAT1430, MAT2004, PSY2302	
Choose 1	SCIENCE with LAB	BIO1020/1021, BIO1120/1121, BIO1130/1131, BIO1200/1201, BIO1210/1211, BIO1400/1401, BIO1500/1501, CHE1100/1101, CHE1110/1111, PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051 <i>BIO1250/1251 for Health Science majors only</i>	
*OPTION: Choose 1	SCIENCE with/without LAB (Choose this option OR a 3 rd INT, Category 3)	BIO1020/1021, BIO1120/1121, BIO1130/1131, BIO1200/1201, BIO1210/1211, BIO1400/1401, BIO1500/1501, CHE1100/1101, CHE1110/1111, PHY1010/1011, PHY1020/1021, PHY1030/1031, PHY1050/1051 <i>BIO1250/1251 for Health Science majors only</i>	
Content Category #2: Understanding Self and Others			9 credits
Requirements: 1 course in each category: Self Context (3 cr), US Context (3 cr), Global Context (3 cr)			
Choose 1	Self Context	AAL1200, PSY1200, SOC1100	
Choose 1	US Context	ECO1401, ECO1402, HST1510, HST1520, PCH1030, POL1400, SOC1400	
Choose 1	Global Context	ECO1010, HST1400, HST1410, HST1430, IBS1420, PCH2030, POL1500, SOC2650	
Content Category #3: Exploring Interdisciplinarity			9 or 12 credits*
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	AIC3100, COM1282, EXS1200, INT1500, INT1600, INT2100, INT2125, INT2200, INT2350, INT2400, INT2460, INT2540, INT2600, INT2620, INT2655	
*OPTION: Choose 1	Interdisciplinary: a 3 rd INT course (OR a science course, Category 1)	AIC3100, COM1282, EXS1200, INT1500, INT1600, INT2100, INT2125, INT2200, INT2350, INT2400, INT2460, INT2540, INT2600, INT2620, INT2655	
Content Category #4: Exploring the Arts and Humanities			9 credits
Requirements: 1 course in each category: Arts (3 cr) and Humanities (3 cr)			
Choose 1	English Composition	ENG1200, ENG1201 or ENG1601	
Choose 1	Arts	ART1000, COM2460, COM3290, ENG2325, FDM1250, MUS1000, MUS1020, THR1400, THR1420, VDA2640	
Choose 1	Humanities	ENG2390, ENG2410, ENG2420, ENG2430, ENG2510, ENG2520, ENG3200, ENG3210, ENG3430, ENG3440, ENG3800, ITL1000, PHI1000, PHI1200, PHI1400, PHI2010, SPA1010, SPA1100, SPA1201, SPA1202	
Content Category #5: Developing Professional Readiness			5 credits
Requirements:			
Choose 1	APEX or ACE	AIC1005 or AIC1100 (3 cr)	
Choose 1	APEX	AIC3005 (2 cr)	