

MAJOR REQUIREMENTS (106 UNITS) *Grades of "C" or better required. Courses should be completed in order listed.*

Biology Courses (38 units)	FALL	WINTER	SPRING
BIOL 111 General Biology I (4) & BIOL 111L Laboratory (1) Prerequisite: MATH 121 eligibility; Corequisite: BIOL 111A; Life Science*	_____	_____	_____
BIOL 111A General Biology Seminar (0) Required of all Biology students planning on taking BIOL 112	_____	_____	_____
BIOL 112 General Biology II (4) & BIOL 112L/114L Laboratory (1) Prerequisite: BIOL 111, 111L, & 111A; Life Science*	_____	_____	_____
BIOL 113 General Biology III (4) & BIOL 113L/115L Laboratory (1) Prerequisite: BIOL 112 & 112L or 114L; Life Science*	_____	_____	_____
BIOL 205 Sophomore Biology Seminar (2) Prerequisite: BIOL 113 & 113L or BIOL 115L	_____	_____	_____
BIOL 301 Cell and Molecular Biology (4) & BIOL 301L/305L Laboratory (1) Prerequisite: BIOL 113, 113L or 115L & CHEM 281	_____	_____	_____
BIOL 302 Genetics (4) & BIOL 302L/306L Laboratory (1) Prerequisite: BIOL 301 & 301L	_____	_____	_____
BIOL 304 General Ecology (4) & BIOL 304L Laboratory (1) Prerequisite: BIOL 113 & 113L or BIOL 115L	_____	_____	_____
BIOL 350 Colloquium (0) Prerequisite: BIOL 113 & 113L or 115L	_____	_____	_____
BIOL 235 Biostatistics (4) Prerequisite: BIOL 113 & 113L or 115L	_____	_____	_____
BIOL 405 Biology Seminar (2) Prerequisite: BIOL 113, 113L & 276 OR BIOL 113 & 115L	_____	_____	_____
Required Cognates (44 units)			
CHEM 111 General Chemistry I (4) & CHEM 111L Laboratory (1) Prerequisite: MATH 121 Concurrently; Physical Science*	_____	_____	_____
CHEM 112 General Chemistry II (4) & CHEM 112L Laboratory (1) Prerequisite: CHEM 111 & 111L; Physical Science*	_____	_____	_____
CHEM 113 General Chemistry III (4) & CHEM 113L Laboratory (1) Prerequisite: MATH 121, CHEM 112 & 112L; Physical Science*	_____	_____	_____
CHEM 281 Organic Chemistry I (4) & CHEM 281L Laboratory (1) Prerequisite: CHEM 113 & 113L	_____	_____	_____
CHEM 282 Organic Chemistry II (4) & CHEM 282L Laboratory (1) Prerequisite: CHEM 281 & 281L	_____	_____	_____
MATH 131 Calculus I (4) Prerequisite: MATH 122 or placement	_____	_____	_____
PHYS 231 General Physics I (4) & 231L Laboratory (1) Prerequisite for PHYS 231A: MATH 122; for 231B: MATH 132; Physical Science*	_____	_____	_____
PHYS 232 General Physics II (4) & 232L Laboratory (1) Prerequisite for PHYS 232A: 231A & 231L; for 232B: 231B & 231L; Physical Science*	_____	_____	_____
PHYS 233 General Physics III (4) & 233L Laboratory (1) Prerequisite for PHYS 233A: 232A & 232L; for 233B: 232B & 232L; Physical Science*	_____	_____	_____
Biological Science emphasis (24 Units)			
BIOL 385 Medicinal Plants (4)	_____	_____	_____
BIOL 410 Science at the Cutting Edge (2)	_____	_____	_____
BIOL 415 Environmental Science (4)	_____	_____	_____
BIOL 434 Histology (4)	_____	_____	_____
BIOL 436 Immunology (4)	_____	_____	_____
BIOL 439 Neurobiology (4)	_____	_____	_____
BIOL 446 Human Gross Anatomy (5)	_____	_____	_____
BIOL 448 Neuroanatomy (5)	_____	_____	_____
BIOL 461 Virology (4)	_____	_____	_____
BIOL 463 Medical Parasitology (4)	_____	_____	_____
BIOL 466 Systems Physiology (4)	_____	_____	_____
BIOL 467 Herpetology	_____	_____	_____
BIOL 474 General Microbiology (4)	_____	_____	_____
BIOL 477 Natural History of Vertebrates (4)	_____	_____	_____
BIOL 389H Topics: Infectious Diseases (4)	_____	_____	_____
BIOL 490 Bioinformatics (4)	_____	_____	_____
BIOL 496 Special Topics (4)	_____	_____	_____

SEE REVERSE FOR UNIVERSITY STUDIES REQUIREMENTS

*A maximum of 4 units from the Major, and 8 units of Cognates required by the Major, may apply to University Studies General Studies requirements (2020-2021 Undergraduate Academic Bulletin)

NOTE: Should a student's general education and major degree program requirements not meet the minimum 190 units required for graduation, the student must complete elective units to make up the deficiency.

UNIVERSITY STUDIES (73-86 UNITS)

Foundational Studies (21-34 units) *Grades of "C" or better required*

FALL WINTER SPRING

- I. First Year Seminar UNST 101A (1), UNST 101B (1), UNST 101C (1)
- II. Rhetorical Skills A. ENGL 111 (3), ENGL 112 (3), ENGL 113 (3) **OR**
ENGL 124 Freshman Seminar (4)
B. BIOL 301L (1), 302L (1), 303L (1), and 405 (2) as required by major
- III. Mathematics Math 131 Calculus I (4) As required by major
- IV. World Languages Level 3 proficiency (e.g. 153) in one non-English language (4-12)
- V. Health and Fitness HLSC 120 (2)

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General Studies (52 units, 16 upper division) *Grades of "D" or better required, unless courses are required by major*

THEME I. Social Sciences (SSCI) 8 units

- Globalization, Identity and Citizenship (4 units from SSCI 204, 205, 206, 207, 208 or 209) Prerequisite: ENGL 113 or 124
- Social Science Breadth Course (4 units)

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THEME II. Arts and Humanities (HUMN) 12 units

- Exploring Culture (4 units from HUMN 104, 105, 106, 107, 108 or 109) Prerequisite: ENGL 111 or 124
- Arts and Humanities Breadth Course (4 units)
- Arts and Humanities Breadth Course (4 units)

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THEME III. Religious Beliefs and Practices (RLGN) 16 units

- RLGN 304 Adventism in Global Perspective or RLGN 305 Religion in Three Cultures (4 units) Prerequisite: ENGL 113 or 124, Junior Status
- A. Spiritual Experience and Expressions (0-4 units)
- B. Beliefs and Heritage (4 units)
- C. Scripture (4 units)
- D. Religion and Society (4 units)

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THEME IV. Natural Sciences (NSCI) 12 units

- Scientific Foundations (4 units from NSCI 404, 405, 406, 407, 408 or 409) Prerequisite: ENGL 113 or 124, College-Level Math, Junior or Senior Status
- Life Science (4 units) Either life science or physical science must include a lab
- Physical Science (4 units) Either life science or physical science must include a lab

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THEME V. Senior Seminar (UNST) 4 units

- UNST 404 B Religious, Moral, and Social Aspects of Biology (4) Prerequisite: Senior Standing

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Service Learning (3 Courses)

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