

MAJOR REQUIREMENTS (92 UNITS) *Grades of "C" or better required. Courses should be completed in order listed.*

Required Courses - (61 units)	FALL	WINTER	SPRING
CPTG 121 Introduction to Computer Science I (4) Prerequisite: MATH 121	_____	_____	_____
MATH 131 Calculus I (4) Prerequisite: MATH 122 or appropriate Math Placement Exam score	_____	_____	_____
MATH 132 Calculus II (4) Prerequisite: MATH 131	_____	_____	_____
MATH 133 Calculus III (4) Prerequisite: MATH 132	_____	_____	_____
MATH 231 Introduction to Linear Algebra & Discrete Mathematics (4) Prerequisite: MATH 132	_____	_____	_____
MATH 232 Differential Equations (4) Prerequisite: MATH 133 & 231	_____	_____	_____
MATH 233 Vector Calculus (4) Prerequisite: MATH 133.	_____	_____	_____
MATH 461 Biomathematical Modeling I (4) Prerequisite: CPTG 121, MATH 232, BIOL 113 & 113L	_____	_____	_____
MATH 462 Biomathematical Modeling II (4) Prerequisite: MATH 461	_____	_____	_____
BIOL 111 General Biology I (4) and BIOL 111L Laboratory (1) Prerequisite: MATH 121 eligibility, Life Science*	_____	_____	_____
BIOL 112 General Biology II (4) and BIOL 112 Laboratory (1) Prerequisite: BIOL 111 & 111L Life Science*	_____	_____	_____
BIOL 113 General Biology III (4) and BIOL 113 Laboratory (1) Prerequisite: BIOL 112 & 112L Life Science*	_____	_____	_____
BIOL 301 Cell and Molecular Biology and BIOL 301L Laboratory Prerequisite: BIOL 113, 113L, CHEM 271. Lab requires BIOL 276	_____	_____	_____
BIOL 302 Genetics (4) Prerequisite: BIOL 301 & 301L	_____	_____	_____
Choose 2 units from 1 of the following courses	_____	_____	_____
CPTG 485 Seminar (0.5-2) Prerequisite: MATH 131	_____	_____	_____
MATH 485 Seminar (0.5-2) Prerequisite: MATH 131	_____	_____	_____
BIOL 405 Biology Seminar (2) Prerequisites: BIOL 113, 113L & BIOL 223	_____	_____	_____
Additional upper division mathematics, computer science, or biology courses (12 units)	_____	_____	_____
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* One unit may be applied to the biomathematics major for each biochemistry course elected from CHEM 491 or CHEM 492 and 2 units for CHEM 493	_____	_____	_____
Required Cognates (19 units)			
CHEM 111 General Chemistry I and CHEM 111L Laboratory Prerequisite: MATH 121 eligibility. Physical Science*	_____	_____	_____
CHEM 112 General Chemistry II and CHEM 112L Laboratory Prerequisite: CHEM 111 & 111L. Physical Science*	_____	_____	_____
CHEM 113 General Chemistry III and CHEM 113L Laboratory Prerequisite: MATH 121, CHEM 112 & 112L. Physical Science*	_____	_____	_____
CHEM 281 Organic Chemistry I Prerequisite: CHEM 113 & 113L.	_____	_____	_____
Recommended:			
BIOL 301L Cell and Molecular Biology Projects Laboratory	_____	_____	_____
BIOL 302L Genetics Proects Laboratory	_____	_____	_____
CHEM 282 Organic Chemistry II (3) and CHEM 282L Laboratory (1) Prerequisite: CHEM 281 & 281L	_____	_____	_____
PHYS 231 General Physics I (4) and PHYS 231L Laboratory (1) Prerequisite: MATH 122. Physical Science*	_____	_____	_____
PHYS 232 General Physics II (4) and PHYS 232L Laboratory (1) Prerequisite: PHYS 231 & 231L. Physical Science*	_____	_____	_____
PHYS 233 General Physics III (4) and PHYS 233L Laboratory (1) Prerequisite: PHYS 232 & 232L. Physical Science*	_____	_____	_____

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. Upper Division Rhetoric : MATH 415, 431, and 432 (4)
- III. Mathematics One college - level Mathematics course in MATH will be satisfied 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 Senior Status) Prerequisite: ENGL 113 or 124, College-Level Math, Junior or
- 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 404T Religion, Values, and Social Responsibility (4)

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Service Learning (3 Courses)

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