

*Note:* For advising support only.  
See catalog for full degree requirements.

Name: \_\_\_\_\_ ID#: \_\_\_\_\_

**GENERAL EDUCATION** (minimum 43 credits)

**ENGLISH LANGUAGE COMPETENCE:** (4 credits)

- English 101-Essay Writing is required of all students.

**Write in courses / credits:**

ENG 101 \_\_\_\_\_ / 4

**ARTS & HUMANITIES:**

A minimum of **15** credits, as follows:

- One course in Literature  
(Any 200- or 300-level English course except 202, 203, 204, 208, 301, 302, 303, 304, 308, 312; FR 303 and SP 303 may also be used to fulfill this requirement)
- One course in History. (For teacher certification, a US History course is required)
- One course in Art, Film, Music or Theatre & Dance.
- Additional credits from Arts & Humanities: AMST, ART, COMM, ENG, FILM, FR, GER, HIST, JRN, ML, MU, PHIL, SP, TAD or an approved interdisciplinary course (WS 201\* or IDAH).

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**SOCIAL SCIENCES:**

A minimum of **12** credits in **three** or more Social Sciences disciplines: ANTH, ECON, GEOG, POSC, PSYC, SOC or an approved interdisciplinary course (WS 201\* or IDSS).  
(For teacher certification, a Geography course is required)

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**SCIENCES/MATHEMATICS:**

A minimum of **12** credits, as follows:

- One course in Biology.
- One course in Physical Science (ASTR, CHEM, GEOL, MET, PHYS)
- Additional credits from Sciences/Mathematics:  
ASTR, BIO, CHEM, CS, ENST, GEOL, MATH, MET, PHYS or an approved interdisciplinary courses (IDSM).  
(For teacher certification, GEOL 201-Physical Geology is required)

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\*WS 201 may be used once, to fulfill either an Arts & Humanities or a Social Sciences requirement.

\*\*For General Education eligible requirements for the major, see reverse side.

**MAJOR REQUIREMENTS: 79-80 credits** See catalog for full degree requirements.

Courses marked with an asterisk (\*) may be used toward the Sciences / Mathematics General Education requirement. Courses count once toward graduation.

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**INTRODUCTORY SEQUENCE (8 credits)**

- BIO 151/152: Life: Diversity and Lab\*                       BIO 153/154: Life: Processes and Lab\*
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**SOPHOMORE CORE COURSES – C or better required in BIO 151/152 for these classes (16-17 credits)**

- BIO 251: Genetics                       BIO 252: Ecology and Evolution                       BIO 254: Cell Biology

**Select one of the following:**

- BIO 253: Physiology of Plants and Animals                       BIO 232/233: Human Anatomy and

**Select two of the following:**                      Physiology II and Lab

- BIO 255: Experimental Genetics                       BIO 257: Experimental Physiology  
 BIO 256: Experimental Ecology and Evolution                       BIO 280: Research Rotations
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**JUNIOR/SENIOR CORE COURSES (16 credits)**

- BIO 401: Biochemistry                       BIO 403: Experimental Biochemistry                       BIO 495: Biology Seminar

**Select one of the following organismal courses:**

- BIO 322: Flowering Plant Biology                       BIO 351: Ornithology                       BIO 365: Plant Evolution  
 BIO 333: Invertebrate Zoology                       BIO 352: Entomology                       BIO 415: Microbial Diversity  
 BIO 334: Vertebrate Zoology

**Select one of the following courses or course pairs:**

- BIO 405: Molecular Biology                       BIO 451: Population Ecology  
 BIO 408: Developmental Biology                      **-and-**  BIO 457: Research Methods: Ecology  
 BIO 409: Neurobiology                       BIO 452: Community and Ecosystem Ecology  
 BIO 454: Ecological Physiology                      **-and-**  BIO 457: Research Methods: Ecology  
**-and-**  BIO 457: Research Methods: Ecology                       BIO 455: Comparative Animal Physiology  
**-or-**  BIO 458: Research Methods: Physiology                      **-and**  BIO 458: Research Methods: Physiology
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**UPPER-LEVEL BIOLOGY ELECTIVES (7-8 credits)**

**Select any 300- or 400-level BIO courses to bring total credits in Biology to 48:**

- \_\_\_\_\_                       \_\_\_\_\_                       \_\_\_\_\_                       \_\_\_\_\_
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**RELATED SCIENCE/MATHEMATICS (31 credits)**

- CHEM 111/115: General Chemistry I and Lab\*                       PHYS 141: College Physics I\*  
 CHEM 112/116: General Chemistry II and Lab\*                       PHYS 142: College Physics II\*  
 CHEM 221/225: Organic Chemistry I and Lab\*                       MATH 141: Introductory Statistics\*  
 CHEM 222/226: Organic Chemistry II and Lab\*                       MATH 151: Calculus I\*
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**TEACHER CERTIFICATION in Biology (Secondary) requires the following courses (34 credits)**

- ESEC 100: Introduction to Teaching                       ESEC 385: Methods: Secondary  
 ESEC 150: Dev, Exceptionality & Learning I                       ESEC 386: Methods: Field Experience  
 ESEC 250: Dev, Exceptionality & Learning II                       ESEC 450: Seminar: Education Principles  
 ESEC 282: Literacy in Content Areas                       ESEC 460: Student Teaching  
 ESEC 320: Education Environments/Practices
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**Additional recommended course:**  ESEC 387: Creating Social Contexts for Learning

**ELECTIVES:** Select additional courses of your choice to bring total number of credits earned to 126. For Environmental Biology, CHEM 352/356, GEOL 201 and GEOL 202 are recommended electives.