## BACHELOR OF ARTS

## Paired Major in Biology and Environmental Studies

Paired major in Biology and Env. Studies allows for double counting of two courses from the following options: BIO50-123/121, BIO50-384 and/or BIO50-434
70 credit minimum - Paired major

## Biology Major Courses

11 Courses; Minimum 19 credits from SU

| Course \# | Course Name | Grade |
| :--- | :--- | :--- |
| BIO50-121 | Investigation into Living Systems |  |
| BIO50-123 | Living Systems |  |
| BIO50-131 | Investigation in Genetics |  |
| BIO50-133 | Molecular \& Population Genetics |  |
| BIO50-222 | Methods in Ecology/Evolutionary Biology |  |
| BIO50-232 | Methods in Cellular/Molecular Biology |  |

## Biology Capstone Seminar

Select one of the two following options.

| BIO50-97X | Research in Biology (3 total credits reqd) |  |  |
| :--- | :--- | :--- | :--- |
| BIO50-991 | Biology Capstone Seminar |  |  |


| or |  |  |  |
| :--- | :--- | :--- | :--- |
| BIO50-994 | Biology Capstone Seminar |  |  |


| Required Supporting Courses: |  | Grade | Credit |
| :---: | :---: | :---: | :---: |
| CHE51-101 | Chemical Methods and Techniques Lab I |  |  |
| CHE51-103 | General Chemistry I |  |  |
| CHE51-201 | Chemical Methods and Techniques Lab II |  |  |
| CHE51-203 | General Chemistry II |  |  |
| CHE51-311 | Organic Chemistry I Lab |  |  |
| CHE51-314 | Organic Chemistry I |  |  |
| MAT52-114 | Introduction to Statistics |  |  |

*MAT52-114 and one Chemistry course may be used to satisfy $E \& B$ requirements

Take four 300+ level Biology courses (two of four must have labs)
Select one advanced cellular/molecular course from the following:

| BIO50-404 | Cancer Biology (no lab) |  |  |
| :--- | :--- | :--- | :--- |
| BIO50-464 | Molecular Biology (lab) |  |  |
| BIO50-484 | Microbiology (lab) |  |  |
| BIO50-494 | Biology of Reproduction (no lab) |  |  |
| BIO50-514 | Cellular Physiology (lab) |  |  |
| BIO50-534 | Fundamentals of Immunology (no lab) |  |  |
| CHE51-604 | Principles of Biochemistry (no lab)* |  |  |
| CHE51-624 | General Biochemistry II (no lab)* |  |  |

*Must add separate lab course to make it a course w/ lab option.

Select one advanced ecology/evolution course from the following:

| BIO50-314 | Genetics (lab) |  |  |
| :--- | :--- | :--- | :--- |
| BIO50-334 | Evolutionary Biology (no lab) |  |  |
| BIO50-374 | Human Genetics and Evolution (no lab) |  |  |
| BIO50-384 | Conservation Biology (no lab) |  |  |
| BIO50-434 | Ecology (lab) |  |  |
| BIO50-444 | Invertebrate Ecology (lab) |  |  |
| BIO50-474 | Genetics, Genomics and Medicine (lab) |  |  |

Select two additional Biology courses (4 credits each) at 300-level or higher:

| BIO50-XXX |  |  |  |
| :--- | :--- | :--- | :--- |
| BIO50-XXX |  |  |  |

*Anatomy \& Physiology I \& II cannot be used to satisfy any Biology requirement.

## Environmental Studies Major Courses

9 Courses; 22 credits must be from SU

| Course \# | Course Name | Grade | Credit |
| :--- | :--- | :--- | :--- |
| ENV49-104 | Introduction to Environmental Studies |  |  |
| ENV49-204 | Environmental GIS (Geographic Info Systems) |  |  |
| ENV49-364 | U.S. Environmental Policy |  |  |
| ENV49-964 | Capstone in Environmental Studies |  |  |

## Select two courses from the following Natural Sciences:

Biology:

| BIO50-123/121 | Living Systems/Invest. Living Systems |  |  |
| :--- | :--- | :--- | :--- |
| BIO50-194 | Science of Chocolate |  |  |
| BIO50-384 | Conservation Biology |  |  |
| BIO50-434 | Ecology* |  |  |

Chemistry:

| Chemistry: |  |  |  |
| :--- | :--- | :--- | :--- |
| CHE51-014 | Chemistry Appreciation |  |  |
| CHE51-024 | Chemistry of the Environment |  |  |
| CHE51-034 | Chemistry of Food |  |  |
| CHE51-103/101 | General Chemistry I \& Lab |  |  |
| CHE51-504 | Instrumentation in Environmental and Bio Analysis* |  |  |
| CHE51-852 | Advanced Lab in Analytical Chemistry |  |  |

Physics:

| PHY53-034 | Introduction to Earth Science |  |  |
| :--- | :--- | :--- | :--- |
| PHY53-044 | Introduction to Climate Science |  |  |
| PHY53-354 | Energy and the Environment |  |  |

*CHE51-504 and BIO50-434 have prerequisites which do NOT count towards the ENV major

## Select one course on Environmental Justice:

Anthropology:

| ANT35-254 | Latinx Spiritualities |  |  |
| :--- | :--- | :--- | :--- |
| ANT35-334 | Global Environmental Justice |  |  |
| Religion: |  |  |  |
| REL19-334 | Apocalypse |  |  |
| REL19-344 | Animals and Religion |  |  |
| REL19-374 | Sacred Space and Environment |  |  |

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## Required Supporting Course:

MAT52-114 $\quad$ Introduction to Statistics


## Select one course in the Environmental Humanities:

Art History:

| ARH71-254 | Landscape \& Environment in Chinese Art | Credit |  |
| :--- | :--- | :--- | :--- |
| Communication Studies: |  |  |  |
| COM75-464 | Environmental Communication |  |  |
| German: |  |  |  |
| GER12-354 | Contemporary German Culture |  |  |
| GER12-714 | Transnational Identity Narratives: Gender/Nature/ Culture |  |  |

History:
HIS16-014

| HIS16-014 | Disease, Health and Medicine in World History |  |  |
| :--- | :--- | :--- | :--- |
| HIS16-484 | The History of the US West |  |  |
| Philosophy: | PHI18-234 Environmental Philosophy   <br> Religion: REL19-334 Apocalypse  <br> REL19-344 Animals and Religion  <br> REL19-364 Pilgrimage  <br> REL19-374 Sacred Space and Environment    |  |  |

**Courses cannot double count for both Environmental Justice and Environmental Humanities
Select one additional course from the ENV Justice/Humanities list or one of the following:

|  |  |  |  |
| :--- | :--- | :--- | :--- |

OR
Chinese:

| CHI22-332 | Intermediate/Advanced Modern Chinese |  |  |
| :--- | :--- | :--- | :--- |
| CHI22-334 | Intermediate/Advanced Modern Chinese |  |  |

Economic

| ECO31-324 | Environmental Economics |  |  |
| :--- | :--- | :--- | :--- |

Education

| EDU40-514 | Teaching Science in the Elem/Middle Schools |  |  |
| :--- | :--- | :--- | :--- |

Environmental Studies:

| ENV49-464 | Sustainable Cities |  |  |
| :--- | :--- | :--- | :--- |
| ENV49-484 | Sustainable Food and Agriculture |  |  |

Theatre:

| THE72-814 | Theatre Sustainability |  |  |
| :--- | :--- | :--- | :--- |

**Courses cannot double count for Environ. Justice or Environ. Humanities or the additional course

## General Education Requirements

At least 30 total credits required; minimum 3 credits per requirement.

## General Education - Part I

Take one of the following first semester seminars:
Take one of the following first semester seminars:

| UST05-014 | First Year Seminar |  |  |
| :--- | :--- | :--- | :--- |
| UST05-214 | Advanced Entry Seminar |  |  |

Foreign Language (three semesters of the same language)

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |


Two Fitness/Recreational Activity courses (must be different topics):

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

## General Education - Part II: Exploration \& Breadth (6 total courses)

Neither BIO50-XXX nor ENV49-XXX courses may be used to satisfy E\&B requirements.
Additionally, any other course contributing to Biology or Environmental Studies which is used to satisfy a major requirement cannot be used in the $E \& B$ section

Select one course from each of the four following areas:

*Public Speaking, College Writing and Creative Writing courses may not count in E\&B.

University Graduation Requirements:

Minimum of 127 credits:
Cumulative GPA > 2.0
GPA > 2.0 for Major and/or Areas of Concentration
All grades C- or higher in major/minor/core?
At least 64 credits completed at Southwestern
No more than 56 credits of any 5 digit prefix
Major credits completed (min 30 required)
$60 \%$ of Major courses completed at Southwestern ( $19 \mathrm{cr} / 19 \mathrm{cr}$ )
Gen Ed has minimum of 30 credits
$\qquad$

## Minor (optional):

Minimum 18 credits
Minimum of 12 credits taken at Southwestern
Minimum 2.0 minor courses CGPA
$\qquad$
$\qquad$

## Other:

Degree Audit Completed (Due one year before grad date) Grad Application Submitted (Due start of final semester) Approved to be part time in last semester?


[^0]:    **Courses cannot double count for both Environmental Justice and Environmental Humanitie

