

# ENVIRONMENTAL BIOLOGY

## BACHELOR OF SCIENCE

### FERRIS STATE UNIVERSITY/KIRTLAND COMMUNITY COLLEGE TRANSFER PLAN

CONCENTRATION ADVISOR: DR. PAUL KLATT

OFFICE: ASC 2114

PHONE: (231) 591-2671

E-MAIL: klattp@ferris.edu

Admission requirement for transfer students:

1. Transfer students with fewer than 12 transferable credits at the time of application, must meet the current freshman admission criteria. The application will be considered for admission based upon the high school academic record.
2. Transfer students with 12 or more transferable credits at the time of application (including both English and Algebra) must have a minimum CGPA of 2.0. Students without an English and Algebra class will be required to submit an ACT/SAT score.

Graduation Requirements:

1. 2.0 CUMULATIVE Grade Average in all coursework.
2. 2.0 Grade Average in biology courses with no grade lower than C-.
3. 121 minimum semester credits including general education requirements.
4. Residency requirement: 30 minimum FSU semester credits
5. Minimum of 40 credits numbered 300 or higher.

| REQUIRED  |                           | COURSE TITLE – FOR PREREQUISITES, SEE FSU OR KIRTLAND CATALOG COURSE DESCRIPTIONS   | FSU S.H. | KIRTLAND Equivalent                             | GRADE |
|---|---------------------------|---|----------|---|-------|
| <b>MAJOR 73-87 credits (* denotes Summer only)</b>  |                           |   |          |   |       |
| BIOL  | 121                       | General Biology 1   | 4        |   |       |
| BIOL  | 122                       | General Biology 2 (course sequence equals both FSU's BIOL121 & 122. All courses in sequence must be taken to receive credit.) | 4        | BIO10100+<br>BIO20100                           |       |
| BIOL  | 353                       | Plant Physiology  | 4        |   |       |
| BIOL  | 375                       | Principles of Genetics  | 3        |   |       |
| BIOL  | 341*<br>Or 344            | Natural History of Invertebrates<br>Entomology  | 3        |   |       |
| BIOL  | 342*                      | Vertebrate Natural History  | 3        |   |       |
| BIOL  | 351*                      | Field Botany  | 3        |   |       |
| BIOL  | 460                       | Current Topics in Biology   | 2        |   |       |
| BIOL  | 492                       | Internship (instructor consent)   | 1-3      |   |       |
| <b>Ecology core:</b> choose at least 2 from the following 3 classes                           |                           |   | 6        |   |       |
| BIOL  | 347                       | Environmental Conservation  |          |   |       |
| BIOL  | 442                       | Ecology   |          |   |       |
| BIOL  | 346                       | Ecological Assessment   |          |   |       |
| <b>Biology Elective :</b> choose 1 300+ BIOL elective. The following courses are recommended: |                           |   | 3        |   |       |
| BIOL  | 340                       | Evolution   |          |   |       |
| BIOL  | 348                       | Animal Behavior   |          |   |       |
| BIOL  | 345                       | Environmental Regulations   |          |   |       |
| <b>Biology Application Area</b>   |                           |   |          |   |       |
| MATH  | 251                       | Statistics for the Life Sciences  | 3        | MTH20600  |       |
| CHEM  | 324 OR<br>364             | Fundamentals of Biochemistry<br>Biochemistry  | 3-4      |   |       |
| GISC or<br>GEOG   | 225<br>311                | Principles of Geographic Information Systems<br>Social Implications of Geographic Information Systems                         | 3        |   |       |
| <b>Supporting Sciences</b>  |                           |   |          |   |       |
| MATH  | 130                       | Adv Algebra and Analytic Trigonometry   | 4        | MTH13000+<br>MTH14000                           |       |
| CHEM  | 121                       | General Chemistry 1   | 5        | CHE10101 +<br>CHE10102                          |       |
| CHEM  | 122                       | General Chemistry 2   | 5        | CHE10201+<br>CHE10202                           |       |
| CHEM  | 214<br>Or 321<br>+<br>322 | Fundamentals of Organic Chemistry<br>Organic Chemistry 1<br>Organic Chemistry 2   | 4-10     | CHE20101+<br>CHE20102&<br>CHE20201+<br>CHE20202 |       |
| GEOL  | 121 or<br>131             | Physical Geology<br>Geology and Land Use Management   | 3-4      | GEL10500  |       |

|   |                           |   |     |   |  |
|---|---------------------------|---|-----|---|--|
| PHYS  | 130<br>Or 211<br>+<br>212 | Concepts in Physics<br>Introductory Physics 1<br>Introductory Physics 2 | 4-8 | PHY20101+<br>PHY20102&<br>PHY20201+<br>PHY20202 |  |
| <b>COMPUTER COMPETENCE</b>  |                           |   |     |   |  |
| Competency as judged by advisor or ISYS 105: Microcomputer Applications |                           |   | 3   | CIS17001  |  |

General Education: All students must complete the General Education requirements associated with this degree.

FSU honors MACRAO stamp on an official transcript as fulfilling lower level general education courses that are not programmatic or prerequisite requirements. The remaining upper level course to complete General Education would be in English.

For students not receiving a MACRAO stamp: Listed below are general education requirements not satisfied in the program major area that must be taken to complete the General Education requirements.

FSU General Education requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/gened.html>

Listings of FSU courses that will satisfy these requirements are available on the FSU web site at:

<http://www.ferris.edu/htmls/academics/gened/courses.html>.

Equivalencies for FSU courses at your school may be found on the FSU web site at:

<http://www.ferris.edu/admissions/Transfer/WebPages/homepage1.cfm>

| <b>Remaining General Education Requirements not fulfilled in the major: minimum 18 credits</b> |     |   |   |          |  |
|--|-----|---|---|----------|--|
| ENGL   | 150 | English 1   | 3 | ENG10303 |  |
| ENGL   | 250 | English 2   | 3 | ENG10403 |  |
| ENGL   | 321 | Advanced Composition  | 3 |          |  |
| COMM   | 121 | Fundamentals of Public Speaking   | 3 | SPE10500 |  |
|  |     | Cultural Enrichment Elective  | 3 |          |  |
|  |     | Cultural Enrichment Elective  | 3 |          |  |
|  |     | Cultural Enrichment Elective 200 +  | 3 |          |  |
|  |     | Social Awareness Elective   | 3 |          |  |
|  |     | Social Awareness Elective   | 3 |          |  |
|  |     | Social Awareness Elective 200 +   | 3 |          |  |
|  |     | Global Consciousness - to be taken as one of the cultural enrichment or social awareness courses  |   |          |  |
|  |     | Race/Ethnicity/Gender - to be taken as one of the cultural enrichment or social awareness courses |   |          |  |
| <b>ELECTIVES to the minimum 121 required for this degree</b>                                   |     |   |   |          |  |
|  |     |   |   |          |  |
|  |     |   |   |          |  |