

# ENVIRONMENTAL BIOLOGY

## BACHELOR OF SCIENCE

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

CONCENTRATION ADVISOR: DR. PAUL KLATT

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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 ALPENA CATALOG COURSE DESCRIPTIONS	FSU S.H.	ALPENA 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	BIO 114 + 210 + 211	
BIOL	218	Microbial Ecology	3		
BIOL	353	Plant Physiology	4		
BIOL	375	Principles of Genetics	3		
BIOL	341*	Natural History of Invertebrates	3		
	Or 344	Entomology			
BIOL	342*	Vertebrate Natural History	3		
BIOL	351*	Field Botany	3	BIO 215	
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		BIO 202	
BIOL	442	Ecology		BIO 230	
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	MTH 223	
CHEM	324 OR 364	Fundamentals of Biochemistry Biochemistry	3-4		
GISC or GEOG	225 311	Principles of Geographic Information Systems Social Implications of Geographic Information Systems	3		
<b>Supporting Sciences</b>					
MATH	130	Adv Algebra and Analytic Trigonometry	4	MTH 123	
CHEM	121	General Chemistry 1	5	CEM 121	
CHEM	122	General Chemistry 2	5	CEM 122	
CHEM	214	Fundamentals of Organic Chemistry	4-10	CEM 221	
	Or 321 + 322	Organic Chemistry 1 Organic Chemistry 2		CEM 222	
GEOL	121 or 131	Physical Geology Geology and Land Use Management	3-4	PHY 124	
PHYS	130	Concepts in Physics	4-8	PHY 121	
	Or 211 + 212	Introductory Physics 1 Introductory Physics 2		PHY 122	

**COMPUTER COMPETENCE**

Competency as judged by advisor or ISYS 105: Microcomputer Applications	3	MTH 119 or CIS 120 or 121	
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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	ENG 111 or 121	
ENGL	250	English 2	3	ENG 112 or 122	
ENGL	321	Advanced Composition	3		
COMM	121	Fundamentals of Public Speaking	3	SPE 123	
		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>					