

COLLEGE OF LIBERAL ARTS & SCIENCES • BS • ENVIRONMENTAL SCIENCE/BIOLOGY

Program Code: ULASENVBI

Version Number: 2118

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: COM 10 or above				
COURSE:	3			
B. Written Communication: ENG 23, 24, or 25				
COURSE:	3			
C. Mathematics: MAT 17 or above				
COURSE: ▲ MAT106, 115, 181 (4 credits)	3			
D. Wellness: Any 3-credit HEA course				
COURSE:	3			
II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ ENV 100	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE ▲ GEL/ENV 210	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) [7]				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) [7]				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

▲ Indicates the suggested placement in General Education of a required major course. The units count only under General Education

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ BIO/ENV 222	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ CHM/ENV 220	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE: ▲ GEG 010	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ BIO/ENV 224	3			
COURSE: ▲ MAT 140, PSY/SOC 200, MAT 150	3			
COURSE: ▲ GEG 274	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
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VI. MAJOR PROGRAM: 60 S.H.		
A. Core (12 SH)	Gr.	S.H.
BIO 104 Principles of Biology		4
CHM 100 General Chemistry I		4
▲ ENV 100 Intro. to Env. Science		
▲ GEG 010 Physical Geography		
GEL 100 Physical Geology		4
B. Common Courses (26 SH)		
BIO 106 Intro. To Zoology		4
BIO 108 Intro. To Botany		4
CHM 102 General Chemistry II		4
CHM 214 Organic Chemistry I OR CHM 204 Fund of Organic Chemistry		4
▲ ENV 210 Environmental Geology		
▲ ENV 220 Environmental Analysis		
▲ ENV 222 Environmental Biology		
ENV 380 Senior Seminar		2
▲ GEG 274 Introduction to GIS		
▲ MAT 106 Trigonometry OR ▲ MAT 115 Precalculus OR ▲ MAT 181 Calculus I AND ▲ MAT 140 Appl. Statistics OR ▲ MAT 150 Intro to Biostatistics OR ▲ PSY 200 Stat.So.&Be.Sci. (Note 1)		
PHY 040 General Physics I & PHY 042 General Physics II OR PHY 100 Physics I & PHY 102 Physics II		4 4
C. Environmental Biology Track (16 SH)		
BIO 230 Taxonomy of Vasc Plants OR BIO 232 Plant Physiology		3
▲ ENV 224 Applied Env Micro		
BIO 320 Physiol. Ecol. of Animals OR BIO 324 Plant Ecology OR BIO 326 Marine Ecology OR BIO 332 Limnology		3
BIO 302 Entomology OR BIO 316 Invertebrate Biology		3
BIO 244 Ecology		4
BIO/ENV 3XX BIO/ENV Elective (Note 2)		3
D. Restricted Electives (6 SH) (Note 3)		
	Gr.	S.H.
		3
		3

VIII. GRADUATION CLEARANCE		
A. At least 120 semester hours	yes	no
B. Comprehensive Exam Passed	yes	no
C. Minimum QPA of 2.0 overall	yes	no
D. Minimum of 2.0 in major	yes	no
Advisor's Signature _____		
Date _____		
NOTES		
1. PSY 011, & SOC 010, are prerequisites to all other courses in their respective disciplines.		
2. BIO OR ENV3XX Research in Biology or Environmental Science OR Internship in Biology may be used for three credits only.		
3. Choice of courses made with advisor from a list maintained by Env. Sci. Committee.		

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▲ Indicates courses required for the major, but used to satisfy requirements of General Education. The units for these courses are counted only under General Education.

B.S. Environmental Science/Biology Suggested 4-Year Schedule

Freshman Year

Fall Semester	Cr
BIO 104 - Principles of Biology	4
ENV 100 - Intro to Env Sci	3
GEG 010 – Physical Geography	3
MAT 105/106/115 OR 181*	3 (4*)
Total	13/14

Spring Semester	Cr
BIO 106 – Intro to Zoology	4
CHM 100 - Gen Chem I	4
MAT 140 OR MAT 150 OR PSY200	3
Gen Ed Course	3
Gen Ed Course	3
Total	17

Sophomore Year

Fall Semester	Cr
BIO 108 – Intro to Botany	4
CHM 102 - Gen Chem 2	4
GEG 274 – Intro to GIS ¹	3
Gen Ed Course	3
Gen Ed Course	3
Total	17

Spring Semester	Cr
ENV 220 – Env. Analysis	3
BIO 232 Plant Phys ²	3
GEL 100 – Physical Geology	4
Restricted Elective	3
Gen Ed Course	3
Total	16

Junior Year

Fall Semester	Cr
CHM 204 OR CHM 214 Org Chem	4
ENV224 – App Env Microbiology	3
BIO244 - Ecology	4
Gen Ed Course	3
Restricted Elective	3
Total	17

Spring Semester	Cr
ENV 222 – Env. Biology	3
ENV210 - Env Geology	3
Gen Ed Course	3
Gen Ed Course	3
Gen Ed Course	3
Total	15

Senior Year

Fall Semester	Cr
BIO320/324/326/332 (Adv Ecology) ⁴	3
BIO 302 or 316 (Ent or Invert Bio)	3
PHY 40 or 100	4
Gen Ed Course	3
Total	13

Spring Semester	Cr
ENV 380 - Senior Seminar	2
BIO 3XX Elective	3
PHY 42 or 102	4
Gen Ed Course	3
Total	12

¹A prerequisite of GEG 10 - Elements of Physical Geography is required for GEG 274 - Intro to GIS. Also, prerequisites likely exist for the Restricted Electives. (See Restricted Elective Course List.)

²Instead of BIO 232 (Plant Physiology), BIO 230 (Taxonomy of Vascular Plants) can be taken fall of odd numbered years, and in proposed course plan a General Elective can replace BIO 232 in spring of sophomore semester.

³A prerequisite of PSY 11 – Intro to Psychology is required for PSY 200 (Statistics for the Social and Behavioral Sciences).

⁴Advanced Ecology courses offered in the Spring semester of the Senior year may replace the Advanced Ecology courses listed for Fall semester Senior year.

* MAT 181 Calculus I is a four (4) credit course that may be completed at the student's option.