

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
GEOLOGY**

VI. MAJOR PROGRAM: 44 s.h.		
A. REQUIRED COURSES: 38 S.H.	Gr.	S.H.
GEL 100 Physical Geology		4
GEL 102 Historical Geology		4
GEL 200VL Field Geology		3
GEL 220CT Mineralogy		4
GEL 230WI Paleontology		3
GEL 304CT Structural Geology		4
GEL 316VL Petrology & Geochemistry		4
GEL 346WI Sedimentology & Stratigraphy		4
GEL 358CI Geophysics		3
GEL 362QL Hydrogeology		3
GEL 380WI Senior Seminar		2
B. ELECTIVE: 6 S.H.		
GEL 210 Environmental Geology		3
GEL 302 Economic Geology		3
GEL 324 Geomorphology		3
GEL 366 Marine Geology		3
GEL 368 Research in Geology I		1-3
GEL 369 Research in Geology II		1-3
GEL 371-373 Selected Topics		1-6
GEL 390 Internship in Geology		1-4
GEL 398 Honors Suppl. Research		1-3
TOTAL SEMESTER HOURS		
VII. CONCOMITANT COURSES: 26-29 S.H.		
A. CHEMISTRY: 8 S.H.	Gr.	S.H.
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
B. PHYSICS: 8 S.H.		
PHY 040 OR PHY 100		4
PHY 042 OR PHY 102		4
C. MATHEMATICS: 6-9 S.H.		
>>>>Option 1		
MAT 105 College Algebra		3
MAT 106 Trigonometry		3
MAT 171 Calculus I		3
>>>>Option 2		
MAT 115 Precalculus		3
MAT 171 Calculus I		3
>>>>Option 3		
MAT 171 Calculus I		3
MAT 172 Calculus II		3
D. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		4

VIII. GRADUATION CLEARANCE	
A. Cumulative Q.P.A.	_____
B. Total Semester Hours	
a. General Education	_____
b. Major Program	_____
c. Concomitant	_____
GRAND TOTAL	_____
C. Comprehensive Exam Passed	
yes	no
Advisor's Signature _____	
Date _____	

NOTES
*GEG 274 is strongly recommended to fulfill this category.
**PSY 011 & SOC 010 are prerequisites to most other courses in their respective disciplines.
***GEG -- Non-laboratory courses only allowed in this category.
A minimum of 120 s.h. are required for graduation.

Program Code: ULASGEOS
Effective Date of Program: Fall 2011
Reviewed: 2/2011

STUDENT:



STUDENT ID NUMBER:

COLLEGE OF LIBERAL ARTS & SCIENCES • BS • GEOLOGY

Program Code **ULASGEOS**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:	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:	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:	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)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
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.

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:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	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:	3			
COURSE:	3			
COURSE:	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

Geology Course Plan - Option A

Fall 2010		Spring 2011	
Physical Geology	4	Historical Geology	4
Chemistry 100	4	Chemistry 102	4
MAT105 College Algebra	3	MAT106 Trigonometry	3
Composition 023	3	General education class (easy one)	3
	14		14

Fall 2011		Spring 2012	
Mineralogy ¹	4	Petrology/Geochemistry	4
Physics 040	4	Physics 042	4
Calculus MAT171	3	Bio104	4
Speech	3	General education class (easy one)	3
General education class	3		
	15		15

Fall 2012		Spring 2013	
Geophysics	3	Hydrogeology	3
Field Methods	3	Structural Geology	4
Intro to GIS (category IIIC)	3	Advanced GIS (category IIID)	3
General education class	3	General education class	3
General education class	3	Health	2
		PE	1
	15		16

Fall 2013		Spring 2014	
Geomorphology	3	Sed/Strat	4
Paleontology	4	Geology Elective	3
General education class	3	Geology Senior Seminar	2
General education class	3	General education class	3
General education class	3	General education class	3
	16		15

Bold = lab class

➔ = prerequisite for this course

➔ = not required, but helpful preparation for this course

¹ Mineralogy involves application of chemistry to geology, so having it under your belt early might help.

Geology Course Plan - Option B

Fall 2010	
Physical Geology	4
MAT105 College Algebra	3
Composition 023	3
General education class	3
General education class	3
	16

Spring 2011	
Historical Geology	4
MAT106 Trigonometry	3
General education class	3
Bio104	4
	14

Fall 2011	
Mineralogy ²	4
Chemistry 100	4
Calculus MAT171	3
General education class	3
P.E.	1
	15

Spring 2012	
Petrology/Geochemistry	4
Chemistry 102	4
Geology Elective	3
General education class (easy one)	3
	14

Fall 2012	
Field Methods	3
Physics 040	4
Intro to GIS (category IIIC)	3
Speech	3
General education class	3
	15

Spring 2013	
Structural Geology	4
Physics 042	4
Advanced GIS (category IIID)	3
General education class	3
Health	2
	16

Fall 2013	
Geophysics	3
Geomorphology	3
Paleontology	4
General education class	3
General education class	3
	16

Spring 2014	
Hydrogeology	3
Sed/Strat	4
Geology Senior Seminar	2
General education class	3
General education class	3
	15

Bold = lab class

= prerequisite for this course

= not required, but helpful preparation for this course

² Taking Mineralogy and Chemistry 100 can be beneficial because the courses complement each other

Geology Course Plan - Option C

Fall 2010	
Physical Geology	4
MAT105 College Algebra	3
Composition 023	3
General education class	3
General education class	3
	16

Spring 2011	
Historical Geology	4
MAT106 Trigonometry	3
Speech	3
Bio104	4
	14

Fall 2011	
Chemistry 100	4
Geomorphology	3
Calculus MAT171	3
General education class	3
Health	2
P.E.	1
	16

Spring 2012	
Chemistry 102	4
Sed/Strat	4
Geology Elective	3
General education class (easy one)	3
	14

Fall 2012 ³	
Mineralogy	4
Physics 040	4
Field Methods	3
Intro to GIS (category IIIC)	3
General education class (easy!!)	3
	17

Spring 2013	
Petrology/Geochemistry	4
Physics 042	4
General education class	3
Advanced GIS (category IIID)	3
	14

Fall 2013	
Geophysics	3
Paleontology	4
General education class	3
General education class	3
General education class	3
	16

Spring 2014	
Hydrogeology	3
Structural Geology	4
Geology Senior Seminar	2
General education class	3
General education class	3
	15

Bold = lab class

➔ = prerequisite for this course

➔ = not required, but helpful preparation for this course

³ This is a tough semester - make sure that's a really easy general education class!

Geology Course Plan - Option D

Fall 2010	
Physical Geology	4
MAT105 College Algebra	3
Composition 023	3
General education class	3
General education class	3
	16

Spring 2011	
Historical Geology	4
MAT106 Trigonometry	3
General education class (easy one)	3
Bio104	4
	14

Fall 2011	
Chemistry 100	4
Field Methods	3
Paleontology	4
Calculus MAT171	3
	14

Spring 2012	
Chemistry 102	4
Structural Geology	4
General education class	3
General education class	3
Health	2
	16

Fall 2012	
Physics 040	4
Geomorphology	3
General education class	3
General education class	3
Speech	3
	16

Spring 2013	
Physics 042	4
Sed/Strat	4
Geology Elective	3
General education class	3
PE	1
	15

Fall 2013	
Geophysics	3
Mineralogy ⁴	4
Intro to GIS (category IIIC)	3
General education class	3
General education class	3
	16

Spring 2014	
Hydrogeology	3
Petrology/Geochemistry	4
Advanced GIS (category IIID)	3
General education class	3
Geology Senior Seminar	2
	15

Bold = lab class

➔ = prerequisite for this course

➔ = not required, but helpful preparation for this course

⁴ Mineralogy involves application of chemistry to geology, so having it under your belt early might help.

Prerequisites

To take this course	You <i>must</i> have this pre-requisite
<i>GEL102 - Historical Geology</i>	<i>GEL100 - Physical Geology</i>
<i>GEL200 - Field Geology</i>	<i>GEL102 - Historical Geology</i>
<i>GEL210 - Environmental Geology</i>	<i>GEL100 - Physical Geology</i>
<i>GEL220 - Mineralogy</i>	<i>GEL100 - Physical Geology</i>
<i>GEL302 - Economic Geology</i>	<i>GEL100 - Physical Geology</i>
<i>GEL304 - Structural Geology</i>	<i>GEL102 - Historical Geology</i>
<i>GEL316 - Petrology and Geochemistry</i>	<i>GEL220 - Mineralogy and CHM100</i>
<i>GEL320 - Paleontology</i>	<i>GEL102 - Historical Geology</i>
<i>GEL324 - Geomorphology</i>	<i>GEL100 - Physical Geology</i>
<i>GEL346 - Sedimentology and Strat.</i>	<i>GEL102 - Historical Geology or GEL366 Marine Geology</i>
<i>GEL358 - Geophysics</i>	<i>PHY040 or PHY100 - Physics</i>
<i>GEL362 - Hydrogeology</i>	<i>PHY040 or PHY100 - Physics + 2 Geology classes</i>
<i>GEL366 - Marine Geology</i>	<i>GEL100 - Physical Geology</i>