

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

III. 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 200 Field Geology		3
GEL 220 Mineralogy		4
GEL 230 Paleontology		3
GEL 304 Structural Geology		4
GEL 316 Petrology & Geochemistry		4
GEL 346 Sedimentology & Stratigraphy		4
GEL 358 Geophysics		3
GEL 362 Hydrogeology		3
GEL 380 Senior Seminar		2
B. ELECTIVE: 6 S.H.		
GEL 205 Planetary Surface Processes		3
GEL 210 Environmental Geology		3
GEL 302 Economic Geology		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		

IV. CONCOMITANT COURSES: 12-14 S.H.		
A. CHEMISTRY: 8 S.H.	Gr.	S.H.
CHM 100 General Chemistry I		**
CHM 102 General Chemistry II		4
B. PHYSICS: 8 S.H.		
PHY 040 OR PHY 100		**
PHY 042 OR PHY 102		4
C. MATHEMATICS: 4-6 S.H.		
>>>>Option 1		
MAT 181 Calculus I		4
>>>>Option 2		
MAT 106 Trigonometry		3
MAT 122 Applied Calculus		3
D. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		**

V. FREE ELECTIVES: 17-19 S.H.*		
Any course carrying university credit		
Course Number and Name	Gr.	S.H.

VI. GRADUATION CLEARANCE		
A. Cumulative Q.P.A.		_____
Major G.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, GEG 333 & GEG 347 are strongly recommended to fulfill this requirement.
**Courses required for the major, but may be used to satisfy General Education requirements II.C.
A minimum of 120 s.h. are required for graduation.

Program Code: ULASGEOS
Effective Date of Program: Fall 2018
Reviewed: 2/2018

NAME	EFFECTIVE DATE AUGUST 27, 2018
ID NUMBER	VERSION 2188

KUTZTOWN

UNIVERSITY

DEGREE REQUIREMENTS

GENERAL EDUCATION

Student Learning Outcomes (SLO)

Upon completion of the requirements for the General Education Program, students will be able to:

- 1 communicate clearly and effectively orally and in writing.
- 2 apply scientific and quantitative reasoning to solve problems and increase knowledge.
- 3 apply skills in critical analysis and reasoning for the interpretation of data.
- 4 engage critically with creative or artistic works.
- 5 demonstrate the ability to retrieve, interpret, evaluate, and use information.
- 6 analyze the role of values, ethics, diversity, and multiple perspectives in local and global society.
- 7 demonstrate an understanding of various models for the development of the whole person.

Completion of the KU General Education program will give students opportunities to:

- 8 explore concepts, ideas, and methods from a variety of disciplines.

Use this checksheet to plan your degree program. Meet every semester with your academic advisor to be sure that you are taking courses that are required to obtain the degree you are seeking. Discuss your goals and choose courses that will help you to attain them. Get the most out of your education by taking advantage of everything that Kutztown University has to offer.

TOTAL GENERAL EDUCATION CREDITS 42-45

FIND A FULL EXPLANATION OF THE GENERAL EDUCATION PROGRAM AT WWW.KUTZTOWN.EDU

First Year Seminar: Discovering College	CREDITS REQUIRED	3
THIS COURSE MEETS SLO 5 & 7	CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
FYS 100	First Year Seminar		

TRANSFER STUDENTS TRANSFERRING 15 CREDITS OR MORE AND NOT TRANSFERRING AN FYS OR FYE COURSE MAY SELECT ANY ADDITIONAL COURSE FROM SECTIONS A, B, C, OR D TO MEET THEIR FYS REQUIREMENT

TRANSFER ELECTIVE:

A	Communicating With And About the World	CREDITS REQUIRED	12
THESE COURSES MEET SLO 1 & 5		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1	COMPOSITION 100 LEVEL CMP 1__		
2	COMPOSITION 200 LEVEL CMP 2__		
3	SPEAKING		
4	ANY WRITING (A2) OR SPEAKING COURSE (A3) OR FROM THE APPROVED LIST		

COURSES IN CATEGORIES B, C & D MUST BE TAKEN OUTSIDE THE STUDENT'S MAJOR. THE MAJOR IS DEFINED AS THE PREFIX THAT IDENTIFIES THE MAJOR. CONCOMITANT REQUIREMENTS MAY BE TAKEN TO MEET GENERAL EDUCATION REQUIREMENTS.

B	Understanding Self & Others	CREDITS REQUIRED	9
THESE COURSES MEET SLO 3 & 6		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1			
2			
3			

C	Understanding Science & Technology	CREDITS REQUIRED	9-12
THESE COURSES MEET SLO 2 & 3		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1	SCIENTIFIC INQUIRY		
2	QUANTITATIVE REASONING		
3	ANY COURSE APPROVED FOR C1 OR C2		

D	Understanding & Creating Ideas	CREDITS REQUIRED	9
THESE COURSES MEET SLO 4 & 6		CREDITS EARNED:	

COURSE NUMBER	COURSE NAME	CR	GR
1			
2			
3			

Geology Course Plan

Freshman Fall				Freshman Spring			
Physical Geology	4	→	Historical Geology	4			
Chemistry 100	4	→	Chemistry 102	4			
MAT106 Trigonometry	3	→	Calculus MAT122 or MAT181	4			
Freshman Seminar	3		Composition (100 level) General Ed.	3			
	14			15			
Sophomore Fall			Sophomore Spring				
Mineralogy¹	4	→	Petrology/Geochemistry	4			
Physics 040/100	4	→	Physics 042/102	4			
Speech General Ed.	3		Bio104	4			
Self and Others General Ed.	3		Composition (200 level) General Ed.	3			
Free elective	1						
	15			15			
Junior Fall			Junior Spring				
Geophysics	3	→	Hydrogeology	3			
Field Methods	3		Structural Geology	4			
Intro to GIS (<i>recommended elective</i>)	3	→	Advanced GIS (<i>recommended elective</i>)	3			
Free Elective	3		Self and Others General Ed.	3			
Communication General Ed.	3		Free Elective (something fun)	3			
	15			16			
Senior Fall			Senior Spring				
Sed/Strat	4		Paleontology	3			
Geology Elective	3		Geology Elective	3			
Creating Ideas General Ed.	3		Geology Senior Seminar	2			
Self and Others General Ed.	3		Creating Ideas General Ed.	3			
Free Electives	3		Creating Ideas General Ed.	3			
	16			14			

Goals:

- Average 15 credits per semester
- Take prerequisites in advance of course that require those prerequisites
- Never take more than three lab courses in one semester.

Bold = class that has a lab component (3-hour commitment in addition to regular lecture)

→ = 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.

Prerequisites

To take this course	You <i>must</i> have this pre-requisite
GEL102 - Historical Geology	GEL100 - Physical Geology
GEL200 - Field Geology	GEL102 - Historical Geology
GEL205 – Planetary Surface Processes	GEL100 - Physical Geology
GEL210 – Environmental Geology	GEL100 - Physical Geology
GEL220 – Mineralogy	GEL100 - Physical Geology
GEL302 – Economic Geology	GEL100 - Physical Geology
GEL304 – Structural Geology	GEL102 - Historical Geology
GEL316 – Petrology and Geochemistry	GEL220 – Mineralogy and CHM100
GEL320 - Paleontology	GEL102 - Historical Geology
GEL346 – Sedimentology and Strat.	GEL102 - Historical Geology or GEL366 Marine Geology
GEL358 – Geophysics	PHY040 or PHY100 – Physics
GEL362 – Hydrogeology	PHY040 or PHY100 – Physics + 2 Geology classes
GEL366 – Marine Geology	GEL100 - Physical Geology
PHY042 – Physics II	PHY040 or PHY100 – Physics
CHM102 – General Chemistry II	CHM100 – General Chemistry I
MAT122 or MAT181 – Applied Calculus	MAT106 – Trigonometry or MAT115 – Precalculus
MAT181 – Calculus I	MAT106 – Trigonometry or MAT115 – Precalculus

Courses in Black are offered both Autumn and Spring.

Courses in Orange are offered in Autumn.

Courses in Green are available in Spring.