

2018-2019 Geology-Engineering and Environmental Geosciences Concentration Bachelor of Science

NAME _____ ID# _____

CORE CURRICULUM – 43-44 Semester Hours (SH)

UNIVERSITY CORE

COLLEGE CORE

A. Core Foundations

CORE 101	_____	3
CORE 102	_____	3
HNRS 103*	_____	3
CORE 201	_____	3
COMS 114		
PHIL 111: 213		
CORE 202	_____	3
PHIL 112		

NOTE: Courses listed in multiple areas can only be used to fulfill a single area requirement.

Students can use two courses with their major prefix to fulfill core requirements.

B. Core Skills & Knowledge

MATHEMATICAL SCIENCES (3SH)	
MATH 168 or 171	_____ 3
NATURAL SCIENCES (4 SH)	
GEOL 100	_____ 4
HUMANITIES (3 SH)	
_____	_____ 3
One of the following: CLSS:110 CCST: 110 ENGL 200, HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206	
VISUAL & PERFORMING ARTS (3 SH)	
_____	_____ 3
One of the following: ART 100, 215, 216 CVPA 266 DNCE 111 MUSC 100, 121, 123 THEA 100, 180	
SOCIAL/BEHAV. SCIENCES (3 SH)	
_____	_____ 3
One of the following: ANSC 101, APST 200, ECON 205, 206, GEOG 101, 102, 103 HIST 111, 112, POSC 120, PSYC 121, RELN 205, SOCY 110, 121	

A. National & International Perspectives

U. S. PERSPECTIVES (3 SH)	
_____	_____ 3
One of the following: APST 200 ECON 101, 205, 206, ENGL 203 GEOG 201, 202, 203 HIST 111, 112 POSC 120, SOCY 110	
GLOBAL PERSPECTIVES (3SH)	
_____	_____ 3
One of the following: CVPA 266, ENGL 201, 202 FORL 103 GEOG 101, 102, 140, 280 HIST 101, 102 INST 101 ITEC 112 PEAC 200 RELN 112, 205, SOCY 121, THEA 180 WMST 101, WMST 200	

B. Supporting Skills & Knowledge

NATURAL SCIENCES OR MATH	
CHEM 101	_____ 3-4
HUMANITIES, VISUAL & PERFORMING ARTS, OR FOREIGN LANGUAGES (3-4 SH)	
_____	_____ 3-4
One of the following: CLSS 110 CCST 110 ENGL 200 HIST 101, 102 PHIL 111, 112, 200; POSC 110; RELN 111, 112, 203, 206; CVPA 266; Or ART 100, 215, 216 DNCE 111, MUSC 100, 121, 123 THEA 100, 180 Or CHNS 101: 102, 201: 202 ARAB 101, 102, 201, 202, FORL 100, 109, 200, 210, 209, 309, 409; FREN 100, 200:210, 300, 320 GRMN 100, 200: 210, 300 LATN 101 102, 201, 350; RUSS 100, 200, 210, 300; SPAN 101: 102, 105 201, 202	
SOCIAL/ BEHAV. SCI. OR HEALTH & WELLNESS (3SH)	
_____	_____ 3
One of the following: ANSC 101, APST 200 ECON 205, 206 GEOG 101, 102, 103 HIST 111, 112 POSC 120; PSYC 121 RELN 205 SOCY 110, 121, HLTH 111,200, NUTR 214; RCPT 200	

ENGINEERING AND ENVIRONMENTAL GEOSCIENCES CONCENTRATION

GEOL 100	_____ (4)	Earth Resources and Natural Hazards	F/S/SU
GEOL 105	_____ (4)	Exploring Earth	F/S/SU
GEOL 106	_____ (4)	The Earth Through Time	S
GEOL 310	_____ (4)	Mineralogy	F
GEOL 312	_____ (4)	Igneous and Metamorphic Petrology	S
GEOL 440	_____ (4)	Structural Geology	F
GEOL 441	_____ (4)	Geologic Field Methods	S

Prerequisites

GEOL 105
GEOL 105 and CHEM 101(co-requisite) or permission
GEOL 310
GEOL 310
GEOL 440

Additional courses required for the Engineering and Environmental Geosciences Concentration:

GEOS 250	_____ (4)	Introduction to GIS	F/S
GEOS 315	_____ (4)	Intermediate GIS Concepts	F/S
OR GEOL 408		Spatial Data Applications in Geology	F
GEOL 320	_____ (4)	Sedimentary Petrology and Strat .	F
GEOL 455	_____ (4)	Principles of Engineering	F
GEOL 406	_____ (4)	Geophysics	S'19 every other S
GEOL 460	_____ (3)	Senior Seminar	F
GEOL 474	_____ (4)	Hydrogeology	S
CHEM 101	_____ (4)	General Chemistry	F/SU
CHEM 102	_____ (4)	General Chemistry	S/SU
STAT 200	_____ (3)	Introduction to Statistics	F/S
MATH 168:169	____ (3) ____ (3)	Precalculus-Calculus	F/S
OR MATH 171	_____ (4)	Calculus and Analytic Geometry I	F

GEOS 250
12 hrs in GEOL or permission of instructor
GEOL 310
GEOL 105 & GEOL 100 or 106; and MATH through Trigonometry
PHYS 112 or PHYS 222, GEOL 105, and MATH 172 or instructor permission
GEOL 312
GEOL 105; & GEOL 100 or 106; MATH 151 or 169 or 171 or instructor permission
CHEM 101
168:B or better in high school Algebra II; 169: C or better in 168
C or better in MATH 138; or SAT Math score of 550 or better or an ACT Math score of 23 or better

B.S. requirements: 8 hours of Physics courses

PHYS 111	_____ (4)	General Physics I	F/S	High school mathematics
PHYS 112	_____ (4)	General Physics II	F/S	PHYS 111
OR				
PHYS 221	_____ (4)	Physics I	F	MATH 171
PHYS 222	_____ (4)	Physics II	S	PHYS 221

Sample Schedule B.S. Geology-Engineering and Environmental Geosciences Concentration 18/19

Fall Semester		Spring Semester	
Freshman Year	Cr.	Freshman Year	Cr.
University Core A: Core 101	3	University Core A: Core 102	3
GEOL 100	4	GEOL 105	4
CHEM 101 (F ONLY)	4	CHEM 102 (S ONLY) CHEM 101	4
MATH 168	3	MATH 169 MATH 168	3
UNIV 100	1	CORE	3
	15		17
Students who have successfully completed GEOL 103 may not take Geol 100 for credit. Students who have successfully completed GEOL 101 may not take GEOL 105 for credit. Any two of these three courses (GEOL 100, GEOL 105, AND GEOL 106) have been approved for Core Curriculum credit in Natural Sciences. Students that do not wish to take 3 lab sciences their sophomore year may elect to take Phys 111 & 112 during the summer.			
Sophomore Year	Cr.	Sophomore Year	Cr.
University Core A: Core 201	3	University Core A: Core 202	3
GEOL 310 (F ONLY) Geol 105 and CHEM 101(co-requisite)	4	GEOL 312 (S ONLY) GEOL 310	4
PHYS 221 (F ONLY) MATH 151 OR PHYS 111 MATH 137 OR DEPT. CHAIR PERMISSION	4	PHYS 222 (S ONLY) PHYS 221 OR PHYS 112 (F ONLY) PHYS 111	4
CORE	4	GEOL 106 GEOL 105	4
	15		15
CORE 101, 102, 201, and 202 must be completed in succession. Students should complete CORE 202 prior to their junior year.			
Junior Year	Cr.	Junior Year	Cr.
GEOL 320 (F ONLY) GEOL 310	4	GEOL 474 (S ONLY) GEOL 105 & GEOL 100 or 106; MATH 151; 4 hrs PHYS recommended	4
GEOL 455 (F ONLY) GEOL 105; & GEOL 100 or 106	4	GEOL 406 (Every Other S) GEOL 105 or ASTR 111 & PHYS 111:112 or PHYS 221:222 & MATH 152	4
GEOS 250	4	STAT 200	3
CORE	3	CORE	3
		CORE	3
	15		17
Senior Year	Cr.	Senior Year	Cr.
GEOL 440 (F ONLY) GEOL 310	4	GEOL 441 (S ONLY) GEOL 440	4
GEOS 315 GEOS 250 or GEOL 408 12 hours Geology	4	CORE	3
GEOL 460 (F ONLY) Senior Standing	3	FREE ELECTIVE to reach 120 credit hours	3
CORE	3	FREE ELECTIVE to reach 120 credit hours	3
	14		13