

Geosciences - Earth Science concentration

College of Natural and Health Sciences

Credit Hours: 120 hours minimum Total - 71 credits for Major

Declaring the Major: Plan Declaration form may be submitted anytime to the department.

Concentrations: Earth Science (Even Years)



First Year

Semester 1

Course	Credits	Course Notes	Category	Major GPA	Fall	Winter	Spring	Summer	Min. Grade	Grade	Complete
GEOS 101 - Introductory Geology (NS)	3		MJ/ GE	●	●						
GEOS 109 - Fundamentals of Global Climate Change	3		MJ	●	●						
ENGL 101 - Composition and Reading	3	Reading and Writing Requirement	SK		●		●		C-		
MATH 111 - College Algebra I	4	Computational Requirement	SK		●		●		C-		
Gen Ed (HU): Humanities & Fine Arts	3		GE		●	●	●	●			

Total Credits: 16

Semester 2

GEOS 104 - Introductory Geology & Lab	2	Prereq: GEOS 101 or acceptable substitute	MJ	●			●				
GEOS 106 - Great Lakes Water Resources	3		MJ	●			●				
Gen Ed (HU): Humanities & Fine Arts	3	Select a course that meets the diversity requirements	GE/ DV		●	●	●	●			
Gen Ed (SS): Social & Behavioral Science	3		GE		●	●	●	●			
PHYS 101 - Principles of Physics (NS)	4		MJ/ GE		●	●	●	●			

Total Credits: 15

First Year Credit Total 31

WINTERIM YEAR 1 - OPTIONAL: Consult with your advisor whether winterim is appropriate for you in your first year.

SUMMER YEAR 1 - OPTIONAL: Enrollment in Summer courses is recommended for students who end their first year with less than 30 credit hours.

SK= Skills Requirement, GE = General Education Requirement, MJ = Major Requirement, SS = Social and Behavioral Sciences Requirement
HU = Humanities and Fine Arts Requirement, NS = Natural Science Requirement, DV = Diversity Requirement

Second Year

Semester 1											
Course	Credits	Course Notes	Category	Major GPA	Fall	Winter	Spring	Summer	Min. Grade	Grade	Complete
GEOS 200 - Minerals and Rocks	4	Prereq: GEOS 104 or consent of instructor	MJ	●	●						
GEOS 301 - Geomorphology	4	Prereq: GEOS 102, 200 or consent of instructor	MJ	●			●				
Gen Ed (SS): Social & Behavioral Science	3		GE		●	●	●	●			
Gen Ed (HU): Humanities & Fine Arts	3		GE		●	●	●	●			
Gen Ed (SS): Social & Behavioral Science	3		GE		●	●	●	●			
Total Credits: 17											
Semester 2											
GEOS 207 - Field Methods	2	Prereq: GEOS 101 and 104	MJ	●			●				
GEOS 102 - Origin and History of the Earth	3	Prereq: 3-credit college level Geoscience course	NJ	●			●				
CHEM 101 - General Chemistry I (NS)	5		MJ/ GE								
GEOS 330 - Environmental Geology	4	Prereq: GEOS 104	MJ				●				
Total Credits: 14											
Second Year Credit Total 31											

WINTERIM YEAR 2 - OPTIONAL: Enrollment in Winterim courses is strongly recommended for students who have accumulated less than 45 credits.
 SUMMER YEAR 2 - OPTIONAL: Enrollment in Summer courses is recommended for students who end their second year with less than 60 credit hours.

GE = General Education Requirement, MJ = Major Requirement, SS = Social and Behavioral Sciences Requirement,
 HU = Humanities and Fine Arts Requirement, NS = Natural Science Requirement

Third Year

Semester 1											
Course	Credits	Course Notes	Category	Major GPA	Fall	Winter	Spring	Summer	Min. Grade	Grade	Complete
GEOS 320 - Soils, Weathering and Surficial Processes	4	Prereq: GEOS 104 and CHEM 101	MJ	●	●						
GEOS 445 - Environmental Sampling, Monitoring, and Assessment	4	Prereq: GEOS 330	MJ	●	●						
CHEM 100 - The World of Chemistry (NS)	3		MJ/ GE		●		●	●			
Gen Ed (SS): Social & Behavioral Science	3		GE		●	●	●	●			
Total Credits: 14											
Semester 2											
GEOS 102 - Origin & History of the Earth	4	Prereq: 3-credit college level Geoscience course	MJ	●			●				
GEOS 355 - Stratigraphy and Sedimentation	4	Prereq: GEOS 104, 200 or consent of instructor	MJ	●			●				
Gen Ed (HU): Humanities & Fine Arts	3		GE		●	●	●	●			
GEOS 300+: GEOS 300 or 400 level class	3		MJ	●	●		●				
GEOS 300+: GEOS 300 or 400 level class	3		MJ	●	●		●				
Total Credits: 17											
Third Year Credit Total 31											

WINTERIM YEAR 3 - OPTIONAL: Enrollment in Winterim courses is strongly recommended for students who have accumulated less than 75 credits.
 SUMMER YEAR 3 - OPTIONAL: Enrollment in Summer courses is recommended for students who end their third year with less than 90 credit hours.

GE = General Education Requirement, MJ = Major Requirement, SS = Social and Behavioral Sciences Requirement, EL = General Elective Requirement

Fourth Year

Semester 1

Course	Credits	Course Notes	Category	Major GPA	Fall	Winter	Spring	Summer	Min. Grade	Grade	Complete
GEOS 496 - Geoscience Application	3	Prereq: Senior standing, GEOS 355 or consent of instructor	MJ	●	●						
GEOS 300+: GEOS 300 or 400 level class	3		MJ	●	●		●				
GEOS 300+: GEOS 300 or 400 level class	3		MJ	●	●		●				
XXXX - General Elective	3		EL		●	●	●	●			

Total Credits: 13

Semester 2

GEOS 495 - Senior Seminar	1	Prereq: Senior standing, GEOS 355	MJ	●			●				
GEOS 420 - Glacial Geology	4	Prereq: GEOS 104 or consent of instructor	MJ	●			●				
ENVS 335 - Energy	4	Prereq: MATH 111, PHYS 101	MJ	●			●				
XXXX - General Elective	3		EL		●	●	●	●			

Total Credits: 14

Fourth Year Credit Total 27

WINTERIM YEAR 4 - OPTIONAL: Enrollment in Winterim courses is strongly recommended for students who have accumulated less than 105 credits.
 SUMMER YEAR 4 - OPTIONAL: Enrollment in Summer courses is recommended for students who end their fourth year with less than 120 credit hours.

MJ = Major Requirement, EL = General Elective Requirement

Milestone Checklist

Year 1:	
Complete skills requirement (Math 111 and English 101).	
Complete GEOS 101 and 104.	
Declare major by submitting a plan declaration form.	
Review DARS and consult with advisor each semester.	
Create a CareerLocker account and create a resume using Resume Module.	
Year 2	
Complete GEOS 200 and GEOS 330.	
Complete 24 out of 36 required general education credits.	
Review DARS and consult with advisor each semester.	
Register for RangerTrak and create a career profile, shadow a geosciences professional.	
Year 3:	
Complete general education courses including diversity requirement (DV).	
Complete GEOS 355.	
Review DARS and consult with advisor each semester.	
Join LinkedIn, Explore internships and graduate school options.	
Submit Graduation Application.	
Year 4:	
Complete all major requirements including major electives.	
Update RangerTrak profile and resume, develop a job search strategy and attend Senior Send Off.	

Graduation Requirements Summary:

Minimum Total Hours: 120 credits

Minimum Upper-Division Hours: 36 credits

Minimum Major hours: 71 credits

Minimum Major GPA: 2.0

Minimum Overall GPA: 2.0