60

## **Geoscience Major**

## **Area of Emphasis**

Students must complete requirements in one of the following areas of emphasis:

• Geoscience

**Total Credits** 

• Geoscience (Accelerated) - Integrated with graduate Environmental Science & Policy program

## **General Geoscience**

Code	Title	Credits	
Supporting Courses		34	
CHEM 211	Principles of Chemistry I		
CHEM 212	Principles of Chemistry II		
CHEM 213	Principles of Chemistry I Laboratory		
CHEM 214	Principles of Chemistry II Laboratory		
GEOSCI 202	Physical Geology		
GEOSCI 203	Earth System History		
GEOSCI 204	Earth System History Laboratory		
MATH 202	Calculus and Analytic Geometry I		
MATH 260	Introductory Statistics		
Physics (Choose one of the following	Physics (Choose one of the following combinations): <sup>1</sup>		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I		
PHYSICS 201	Principles of Physics I		
& PHYSICS 203	and Introductory Physics Lab I		
Upper-Level Courses		26	
ENV SCI 320	The Soil Environment		
GEOSCI 340	Introduction to Mineralogy & Petrology		
GEOSCI 432	Hydrogeology		
Choose one:			
ENV SCI 330	Hydrology		
GEOSCI 402	Sedimentology & Stratigraphy		
Electives			
Choose 12 credits from the following courses:			
ENV SCI 330	Hydrology		
ENV SCI 337	Environmental GIS		
ENV SCI 425	Global Climate Change		
GEOSCI 301	Introduction to Geoscience Field Methods		
GEOSCI 350	Structural Geology and Tectonics		
GEOSCI 402	Sedimentology & Stratigraphy		
GEOSCI 421	Geoscience Field Trip <sup>2</sup>		
GEOSCI 450	Ore Deposits		
GEOSCI 470	Glacial Geology & Landscapes		
GEOSCI 491	Senior Thesis/Research in Geoscience		
GEOSCI 492	Special Topics in Geoscience <sup>2</sup>		
GEOSCI 498	Independent Study		
GEOSCI 499	Travel Course		
WATER 321	Stable Isotopes in the Environment		
WATER 444	Aqueous Geochemistry		

Students who plan to attend graduate school are advised to take Physics 201/203 (calculus-based physics)

## Geoscience Accelerated Emphasis - Integrated with graduate Environmental Science & Policy program

Supporting Courses CHEM 211 Principles of Chemistry I CHEM 212 Principles of Chemistry II CHEM 213 Principles of Chemistry II CHEM 213 Principles of Chemistry II Laboratory CHEM 214 Principles of Chemistry II Laboratory CHEM 214 Principles of Chemistry II Laboratory GEOSCI 202 Physical Geology GEOSCI 202 Physical Geology GEOSCI 204 Earth System History MATH 202 Calculus and Analytic Geometry I MATH 202 Calculus and Analytic Geometry I MATH 203 Introductory Statistics PhySic Store of the following combinations): PHYSICS 103 and Introductory Physics I 8 PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I 8 PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I 8 PHYSICS 203 (Physics II 8 PHYSICS 203 (Physics II 8 PHYSICS 204 Principles of Physics II 8 PHYSICS 205 Physics II 8 PHYSICS 206 Physics II 8 PHYSICS 207 Principles of Physics II 8 PHYSICS 208 Physics II 8 PHYSICS 209 Physics I	Code	Title	Credits
CHEM 212 Principles of Chemistry II CHEM 213 Principles of Chemistry II Laboratory CHEM 214 Principles of Chemistry II Laboratory GEOSCI 202 Physical Geology GEOSCI 203 Earth System History Laboratory MCCCI 204 Earth System History Laboratory MCCCI 205 Calculus and Analytic Geometry I MCCI 206 Calculus and Analytic Geometry I MCCI 207 Calculus Analytic Geometry	Supporting Courses		34
CHEM 213 Principles of Chemistry I Laboratory CHEM 214 Principles of Chemistry II Laboratory GEOSCI 202 Physical Geology GEOSCI 203 Earth System History GEOSCI 204 Earth System History GEOSCI 204 Earth System History MATH 202 Calculus and Analytic Geometry I MATH 205 Introductory Statistics Physics (Choose one of the following combinations): 1 PHYSICS 103 Fundamentals of Physics I APHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I APHYSICS 201 Principles of Physics I APHYSICS 203 and Introductory Physics Lab I Upper-Level Courses 26 EN 9CI 320/620 The Soil Environment 8 GEOSCI 340 Introductory Physics Petrology GEOSCI 432/632 Hydrogeology 8 GEOSCI 432/632 Hydrogeology 8 GEOSCI 402/602 Sedimentology & Stratigraphy 8 GEOSCI 402/602 Sedimentology & Stratigraphy 8 GEOSCI 303 Hydrology EN 9CI 330 Hydrology EN 9CI 330 Hydrology EN 9CI 330 Environmental CIS ENV SCI 330 Structural Geology and Tectonics GEOSCI 361 Introduction to Geoscience Field Methods GEOSCI 360 Structural Geology and Tectonics GEOSCI 361 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) 8 GEOSCI 450 Ore Deposits GEOSCI 441/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) 9 GEOSCI 449 Special Topics in Geoscience 8 GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	CHEM 211	Principles of Chemistry I	
CHEM 214 Principles of Chemistry II Laboratory GEOSCI 202 Physical Geology GEOSCI 203 Earth System History GEOSCI 204 Earth System History Laboratory MATH 202 Calculus and Analytic Geometry I Introductory Statistics Physics (Choose one of the following combinations):  PHYSICS 103 Fundamentals of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I & PHYSICS 201 Principles of Physics I & PHYSICS 201 Anal Introductory Physics Lab I  Upper-Level Courses Zoft Principles of Physics I & PHYSICS 201 Anal Introductory Physics Lab I  Upper-Level Courses Zoft Physics I & Physics 201 Anal Introduction to Mineralogy & Petrology GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 340 Sedimentology & Stratigraphy **  EINY SCI 330 Hydrogeology ** Choose one: EINY SCI 330 Hydrogeology & Stratigraphy ** Electives Choose 12 credits from the following courses: ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy **  ENV SCI 331 Environmental GIS ENV SCI 333 Environmental GIS ENV SCI 335 Environmental GIS GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 303 Structural Geology and Tectonics GEOSCI 304 Sedimentology & Stratigraphy GEOSCI 404 Sedimentology & Stratigraphy GEOSCI 405 Sedimentology & Stratigraphy GEOSCI 406 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) **  GEOSCI 407 Giacial Geology & Landscapes ** GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience Z GEOSCI 493 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	CHEM 212	Principles of Chemistry II	
GEOSCI 202	CHEM 213	Principles of Chemistry I Laboratory	
GEOSCI 203 Earth System History GEOSCI 204 Earth System History Laboratory MATH 202 Calculus and Analytic Geometry I MATH 260 Introductory Statistics Physics (Choose one of the following combinations):  PHYSICS 103 Fundamentals of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics Lab I Upper-Level Courses ENV SCI 320/520 The Soil Environment # GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology # Choose one: ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy # ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy # ENV SCI 337 Environmental GIS ENV SCI 345/625 Global Climate Change # GEOSCI 402 Sedimentology & Stratigraphy Y GEOSCI 402/602 Sedimentology & Tructural Geology and Tectonics GEOSCI 402 Sedimentology & Tructural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy Y GEOSCI 402 Sedimentology & Stratigraphy Y GEOSCI 402 Sedimentology & Stratigraphy Y GEOSCI 404 Sedimentology & Stratigraphy Y GEOSCI 405 Ore Deposits GEOSCI 406 Sedimentology & Stratigraphy Y GEOSCI 407/670 Glacial Geology & Landscapes # GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience 2 GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	CHEM 214	Principles of Chemistry II Laboratory	
GEOSCI 204 Earth System History Laboratory MATH 202 Calculus and Analytic Geometry I MATH 260 Introductory Statistics Physics (Choose one of the following combinations):  PHYSICS 103 Fundamentals of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 203 and Introductory Physics Lab I  Upper-Level Courses 26 ENV SCI 320/520 The Soil Environment  GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology  GEOSCI 432/632 Hydrogeology  GEOSCI 402/602 Sedimentology & Stratigraphy  GEOSCI 402/602 Sedimentology & Stratigraphy  Electives Choose one: ENV SCI 330 Hydrology ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS ENV SCI 345/625 Global Climate Change  GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 360 Ore Deposits GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit)  GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 493 Sepical Topics in Geoscience  GEOSCI 494 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 202	Physical Geology	
MATH 202 Calculus and Analytic Geometry I MATH 260 Introductory Statistics Physics (Choose one of the following combinations):  PHYSICS 103 Fundamentals of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 203 and Introductory Physics Lab I  Upper-Level Courses 26 ENV SCI 320/520 The Soil Environment 46 GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology 47 GEOSCI 432/632 Hydrogeology 57 Choose one: ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy 47 Electives Choose 12 credits from the following courses: ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 305 Structural Geology and Tectonics GEOSCI 305 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) 46 GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) 47 GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience 2 GEOSCI 493 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 203	Earth System History	
MATH 260 Introductory Statistics Physics (Choose one of the following combinations): 1 PHYSICS 103 Fundamentals of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I & PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I & PHYSICS 203 and Introductory Physics Lab I  PHYSICS 201 Principles of Physics I & PHYSICS 203 And Introduction Physics Lab I  PHYSICS 201 Principles of Physics I & PHYSICS 203 And Introduction Physics Lab I  PHYSICS 203 And Introduction Physics Lab I  PHYSICS 203 And Introduction to Mineralogy & Petrology  GEOSCI 340 Introduction to Mineralogy & Petrology  GEOSCI 402/632 Hydrogeology #  Choose one:  ENV SCI 330 Hydrology  GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment	GEOSCI 204	Earth System History Laboratory	
Physics (Choose one of the following combinations):  PHYSICS 103 Fundamentals of Physics I A PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I A PHYSICS 203 and Introductory Physics Lab I PHYSICS 203 and Introductory Physics Lab I PHYSICS 203 and Introductory Physics Lab I   Upper-Level Courses Z6  ENV SCI 320/520 The Soil Environment #  GEOSCI 432/632 Hydrogeology #  Choose one:  ENV SCI 320  ENV SCI 330 Hydrology  GEOSCI 402/2602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 301 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 402 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment	MATH 202	Calculus and Analytic Geometry I	
PHYSICS 103 Fundamentals of Physics I and Introductory Physics Lab I PHYSICS 201 Principles of Physics I and Introductory Physics Lab I PHYSICS 203 and Introductory Physics Lab I  Upper-Level Courses 26  ENV SCI 320/520 The Soil Environment ** GEOSCI 432/632 Hydrogeology ** CHOOSE ONE: ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy ** Electives  Choose 12 credits from the following courses: ENV SCI 330 Hydrology ENV SCI 331 Environmental GIS ENV SCI 330 Hydrology ENV SCI 330 Hydrology ENV SCI 331 Environmental GIS GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) ** GEOSCI 470/670 Glacial Geology & Landscapes ** GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	MATH 260	Introductory Statistics	
& PHYSICS 203 and Introductory Physics Lab I PHYSICS 201 Principles of Physics I & PHYSICS 203 and Introductory Physics Lab I  Upper-Level Courses ENV SCI 320/520 The Soil Environment #  GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology #  Choose one: ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses: ENV SCI 330 Hydrology ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS GEOSCI 402/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 451/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	Physics (Choose one of the following combinations): <sup>1</sup>		
PHYSICS 201		Fundamentals of Physics I	
Upper-Level Courses       26         ENV SCI 320/520       The Soil Environment #         GEOSCI 340       Introduction to Mineralogy & Petrology         GEOSCI 432/632       Hydrogeology #         Choose one:         ENV SCI 330       Hydrology         GEOSCI 402/602       Sedimentology & Stratigraphy #         Electives         Choose 12 credits from the following courses:         ENV SCI 330       Hydrology         ENV SCI 330       Hydrology         ENV SCI 337       Environmental GIS         ENV SCI 425/625       Global Climate Change #         GEOSCI 301       Introduction to Geoscience Field Methods         GEOSCI 350       Structural Geology and Tectonics         GEOSCI 402       Sedimentology & Stratigraphy         GEOSCI 421/621       Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #         GEOSCI 470/670       Glacial Geology & Landscapes #         GEOSCI 491       Senior Thesis/Research in Geoscience         GEOSCI 492       Special Topics in Geoscience 2         GEOSCI 498       Independent Study         GEOSCI 499       Travel Course         WATER 321       Stable Isotopes in the Environment	& PHYSICS 203	and Introductory Physics Lab I	
ENV SCI 320/520 The Soil Environment # GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology # Choose one: ENV SCI 330 Hydrogeology & Stratigraphy # GEOSCI 402/602 Sedimentology & Stratigraphy # Electives Choose 12 credits from the following courses: ENV SCI 330 Hydrology ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 470/670 Glacial Geology & Landscapes # GEOSCI 470/670 Glacial Geology & Landscapes # GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment			
ENV SCI 320/520 The Soil Environment #  GEOSCI 340 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology #  Choose one:  ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology ENV SCI 337 Environmental GIS GEOSCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 41/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment		and Introductory Physics Lab I	
GEOSCI 430 Introduction to Mineralogy & Petrology GEOSCI 432/632 Hydrogeology #  Choose one:  ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology ENV SCI 337 Environmental GIS ENV SCI 337 Environmental GIS ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience Geoscience GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	• •	T. 0.15	26
GEOSCI 432/632 Hydrogeology #  Choose one:  ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology ENV SCI 337 Environmental GIS GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 301 Structural Geology and Tectonics GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) # GEOSCI 470/670 Glacial Geology & Landscapes # GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment			
Choose one:  ENV SCI 330 Hydrology  GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment			
ENV SCI 330 Hydrology GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment		Hydrogeology "	
GEOSCI 402/602 Sedimentology & Stratigraphy #  Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment			
Electives  Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment			
Choose 12 credits from the following courses:  ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment		Sedimentology & Stratigraphy **	
ENV SCI 330 Hydrology  ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment			
ENV SCI 337 Environmental GIS  ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods  GEOSCI 350 Structural Geology and Tectonics  GEOSCI 402 Sedimentology & Stratigraphy  GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits  GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment		owing courses:	
ENV SCI 425/625 Global Climate Change #  GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #  GEOSCI 450 Ore Deposits GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience 2  GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment		• •	
GEOSCI 301 Introduction to Geoscience Field Methods GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit)  GEOSCI 450 Ore Deposits GEOSCI 470/670 Glacial Geology & Landscapes  GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience  GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment			
GEOSCI 350 Structural Geology and Tectonics GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) # GEOSCI 450 Ore Deposits GEOSCI 470/670 Glacial Geology & Landscapes # GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience 2 GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment			
GEOSCI 402 Sedimentology & Stratigraphy GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) # GEOSCI 450 Ore Deposits GEOSCI 470/670 Glacial Geology & Landscapes # GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience 2 GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 301	Introduction to Geoscience Field Methods	
GEOSCI 421/621 Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) # GEOSCI 450 Ore Deposits GEOSCI 470/670 Glacial Geology & Landscapes # GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience <sup>2</sup> GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 350	Structural Geology and Tectonics	
GEOSCI 450  GEOSCI 470/670  Glacial Geology & Landscapes #  GEOSCI 491  Senior Thesis/Research in Geoscience  GEOSCI 492  Special Topics in Geoscience <sup>2</sup> GEOSCI 498  Independent Study  GEOSCI 499  Travel Course  WATER 321  Stable Isotopes in the Environment	GEOSCI 402	e	
GEOSCI 470/670 Glacial Geology & Landscapes #  GEOSCI 491 Senior Thesis/Research in Geoscience  GEOSCI 492 Special Topics in Geoscience <sup>2</sup> GEOSCI 498 Independent Study  GEOSCI 499 Travel Course  WATER 321 Stable Isotopes in the Environment	GEOSCI 421/621	Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) #	
GEOSCI 491 Senior Thesis/Research in Geoscience GEOSCI 492 Special Topics in Geoscience <sup>2</sup> GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 450		
GEOSCI 492 Special Topics in Geoscience <sup>2</sup> GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 470/670	Glacial Geology & Landscapes #	
GEOSCI 498 Independent Study GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 491		
GEOSCI 499 Travel Course WATER 321 Stable Isotopes in the Environment	GEOSCI 492	Special Topics in Geoscience <sup>2</sup>	
WATER 321 Stable Isotopes in the Environment	GEOSCI 498	Independent Study	
	GEOSCI 499	Travel Course	
WATER 444/644 Aqueous Geochemistry <sup>#</sup>	WATER 321	·	
	WATER 444/644	Aqueous Geochemistry #	

Total Credits 60

Course topics vary. Offerings of different topics can be repeated for credit.

<sup>#</sup> Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Environmental Science & Policy office or refer to the graduate catalog (http://catalog.uwgb.edu/archive/2024-2025/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/).

Students who plan to attend graduate school are advised to take Physics 201/203 (calculus-based physics)

Course topics vary. Offerings of different topics can be repeated for credit.