

## Geology Graduate Course Offerings (2012-2022)

Fall 2012 (Completed)				Winter 2013 (Completed)				Spring 2013 (Completed)			
Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor
GSC 501	Adv. Topics in Geosciences	3	All	GSC 534/L	Quaternary Geology	4	Marshall	GSC 575/L	Contaminant Transport	4	Osborn
GSC 503L	Field Investigations	2	Nourse	GSC 434/L	Shallow Subsurface Geophysics	4	Polet	GSC 564/L	Adv. Shall. Subsurface GP	4	Polet
GSC 545/L	Advanced Hydrogeology	4	Osborn	GSC 415/L	Engineering Geology II	4	Polet&Nourse&Roumelis	GSC 424/ GSC 425L	Ign/Meta Petrology	5	Jessey
GSC 600	Thesis Proposal	1	All	GSC 410	Earth Science Seminar	2	Osborn	GSC 401	GIS Applications I	3	Wagner
				GSC 491L	Field Module	2	Jessey	GSC 491L	Field Module	2	Nourse
				GSC 600	Thesis Proposal	1	All	GSC 600	Thesis Proposal	1	All
				GSC 694	Thesis Research	Varies	All	GSC 694	Thesis Research	Varies	All
Fall 2013 (Completed)				Winter 2014 (Completed)				Spring 2014 (Completed)			
Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor
GSC 501	Adv. Topics in Geosciences	3	All	GSC 568/L	Topics in Advanced Seismology	4	Polet	GSC 545/L	Advanced Hydrogeology	4	Osborn
GSC 503L	Field Investigations	2	Nourse	GSC 440/L	Exploration and Mining Geology	4	Jessey	GSC 495	Planetary Science	4	Hendrix
GSC 551/L	Petroleum Geology	4	Berry	GSC 410	Earth Science Seminar	2	Osborn	GSC 491L	Field Module	2	Nourse
GSC 423/L	Sedimentary Geology	5	Caputo	GSC 491L	Field Module	2	Nourse	RS 414/L	Watershed Restoration	4	Marshall
GSC 450/L	Intro To Seismology	4	Polet	GSC 600	Thesis Proposal	1	All	GSC 600	Thesis Proposal	1	All
GSC 499/L	Soil Physics--Pilot of GSC 432/L	4	Osborn	GSC 694	Thesis Research	Varies	All	GSC 694	Thesis Research	Varies	All
GSC 600	Thesis Proposal	1	All	GSC 696	Masters Degree Thesis	3	All	GSC 696	Masters Degree Thesis	3	All
GSC 694	Thesis Research	Varies	All								
GSC 696	Masters Degree Thesis	3	All								
Fall 2014 (Completed)				Winter 2015 (Completed)				Spring 2015 (Completed)			
Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor
GSC 411	GIS Applications II	3	Nourse	GSC 410	Earth Science Seminar	2	Osborn	RS 414/L	Watershed Restoration	4	Marshall
GSC 491L	Field Module (Yellowstone Data Analysis)	2	Polet	GSC 415/L	Engineering Geology II	4	Nourse& Roumelis &Martendale	GSC 424 / GSC 425L	Igneous/Meta Petrology	5	Van Buer
GSC 501	Adv. Topics in Geosciences	3	All	GSC 432/L	Soil Physics	4	Osborn	GSC 444/L	Geotectonics	4	Van Buer&Nourse
GSC 503L	Field Investigations	2	Nourse	GSC 434/L	Shallow Subsurface Geophysics	4	Polet	GSC 491L	Field Module	2	Nourse
GSC 575/L	Contaminant Transport	4	Osborn	GSC 491L	Field Module	2	Van Buer	GSC 564/L	Adv. Shall. Subsurface GP	4	Polet
GSC 600	Thesis Proposal	1	All	GSC 534/L	Quaternary Geology	4	Marshall	GSC 600	Thesis Proposal	1	All
GSC 694	Thesis Research	Varies	All	GSC 600	Thesis Proposal	1	All	GSC 694	Thesis Research	Varies	All
GSC 696	Masters Degree Thesis	3	All	GSC 694	Thesis Research	Varies	All	GSC 696	Masters Degree Thesis	3	All
				GSC 696	Masters Degree Thesis	3	All				
Fall 2015 (Completed)				Winter 2016 (Completed)				Spring 2016 (Completed)			
Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor
GSC 423/L	Sedimentary Geology	5	Murray	GSC 401/L	GIS Applications I	3	Staff	GSC 424 / GSC 425L	Igneous/Meta Petrology	5	Van Buer
GSC 450/L	Intro To Seismology	4	Polet	GSC 410	Earth Science Seminar	2	Osborn	GSC 491L	Field Module	2	Murray
GSC 501	Adv. Topics in Geosciences	3	All	GSC 491L	Field Module	2	Van Buer	GSC 444/L	Geotectonics	4	Van Buer
GSC 503L	Field Investigations	2	Van Buer	GSC 499/L	Volcanology	4	Van Buer&Polet	GSC 495	Planetary Science	4	Phelps
GSC 599/L	Isotope Geochemistry	4	Osborn&Van Buer	GSC 568/L	Topics in Advanced Seismology	4	Polet	RS 414/L	Watershed Restoration	4	Marshall
GSC 600	Thesis Proposal	1	All	GSC 600	Thesis Proposal	1	All	GSC 545/L	Advanced Hydrogeology	4	Osborn
GSC 694	Thesis Research	Varies	All	GSC 694	Thesis Research	Varies	All	GSC 600	Thesis Proposal	1	All
GSC 696	Masters Degree Thesis	3	All	GSC 696	Masters Degree Thesis	3	All	GSC 694	Thesis Research	Varies	All
								GSC 696	Masters Degree Thesis	3	All
Fall 2016 (Completed)				Winter 2017 (Completed)				Spring 2017 (Completed)			
Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor
GSC 491L	Field Module	2	Osborn	GSC 411/L	GIS Applications II	3	Van Buer	GSC 424 / GSC 425L	Igneous/Meta Petrology	5	Van Buer
GSC 499/L	Adv. Sedimentary Geology	4	Murray	GSC 410	Earth Science Seminar	2	Osborn	GSC 491L	Field Module	2	Murray
GSC 501	Adv. Topics in Geosciences	3	All	GSC 432/L	Soil Physics	4	Osborn	RS 414/L	Watershed Restoration	4	Marshall
GSC 503L	Field Investigations	2	Nourse	GSC 434/L	Shallow Subsurface Geophysics	4	Polet	GSC 444/L	Geotectonics	4	Van Buer&Nourse
GSC 575/L	Contaminant Transport	4	Osborn	GSC 491L	Field Module	2	Van Buer	GSC 564/L	Adv. Shall. Subsurface GP	4	Polet
GSC 600	Thesis Proposal	1	All	GSC 599	Advanced Structure/Tectonics	4	Nourse & Van Buer	GSC 600	Thesis Proposal	1	All
GSC 694	Thesis Research	Varies	All	GSC 600	Thesis Proposal	1	All	GSC 694	Thesis Research	Varies	All
GSC 696	Masters Degree Thesis	3	All	GSC 694	Thesis Research	Varies	All	GSC 696	Masters Degree Thesis	3	All
				GSC 696	Masters Degree Thesis	3	All				
Fall 2017 (Completed)				Winter 2018 (Completed)				Spring 2018 (Completed)			
Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor	Course #	Course Title	Units	Instructor
GSC 423/L	Sedimentary Geology	5	Murray	GSC 410	Earth Science Seminar	2	Polet	GSC 424 / GSC 425L	Igneous/Meta Petrology	5	Van Buer
GSC 450/L	Intro To Seismology	4	Polet	GSC 491L	Field Module	2	Van Buer	GSC 401/L	GIS Applications I	3	Nourse
GSC 491L	Field Module	2	Nourse	GSC 499/L	Volcanology	4	Van Buer&Polet	GSC 491L	Field Module	2	Murray
GSC 501	Adv. Topics in Geosciences	3	All	GSC 568/L	Topics in Advanced Seismology	4	Polet	GSC 495??	Planetary Science	4	Adjunct??
GSC 503L	Field Investigations	2	Van Buer	GSC 600	Thesis Proposal	1	All	RS 414/L	Watershed Restoration	4	Marshall
GSC 534/L	Quaternary Geology	4	Marshall	GSC 694	Thesis Research	Varies	All	GSC 599/L	Isotope Geochemistry	4	Osborn&Van Buer
GSC 600	Thesis Proposal	1	All	GSC 696	Masters Degree Thesis	3	All	GSC 600	Thesis Proposal	1	All
GSC 694	Thesis Research	Varies	All					GSC 694	Thesis Research	Varies	All
GSC 696	Masters Degree Thesis	3	All					GSC 696	Masters Degree Thesis	3	All
Fall 2018--Semester System (Completed)				Spring 2019--Semester System (Completed)							
Course #	Course Title	Semester Units	Instructor	Course #	Course Title	Semester Units	Instructor				
GSC 4010/L	GIS Applications for Earth and Environmental Scientists	3	Van Buer	GSC 4100	Presentation, Writing and Research Skills in the Geosciences	2	Osborn				
GSC 4230/L	Sedimentary Geology	3	Murray	GSC 4150/L	Engineering Geology II	3	Roumelis and Martindale				
GSC 4340/L	Shallow Subsurface Geophysics	3	Polet	GSC 4240/L	Igneous / Metamorphic Petrology	4	Van Buer				
GSC 4800	Quantitative and Computer Skills in Geosciences	3	Polet	GSC 4320/L	Soil Physics	3	Osborn				
GSC 4910L	Field Module	1	Marshall	GSC 4910L	Field Module	1	Van Buer				
GSC 4910L	Field Module	1	Nourse	GSC 4910L	Field Module	1	Murray				
GSC 4990	Intro to Geodetic Imaging	3	Donellan	GSC 4950/L	Planetary Science	3	Anderson				
GSC 5010	Adv. Topics in Geosciences	2	All	GSC 4990/L	Basin Analysis /Advanced Sedimentary Geology	3	Murray				
GSC 5030L	Field Investigations	1	Nourse	GSC 4990/L	Age of Dinosaurs	3	Prothero				
GSC 5450/L	Advanced Hydrogeology	3	Osborn	RS 4200/L	Watershed Restoration	3	Marshall				
GSC 6930	Thesis Proposal	1	All	GSC 5330/L	Advanced Structure / Tectonics	3	Van Buer				
GSC 6940	Thesis Research	Varies	All	GSC 5640/L	Adv. Shallow Subsurface GP	3	Polet				
GSC 6960	Masters Degree Thesis	1	All	GSC 6930	Thesis Proposal	1	All				
				GSC 6940	Thesis Research	Varies	All				
				GSC 6960	Masters Degree Thesis	1	All				
Fall 2019--Semester System				Spring 2020--Semester System							
Course #	Course Title	Semester Units	Instructor	Course #	Course Title	Semester Units	Instructor				
GSC 4230/L	Sedimentary Geology	3	Murray	GSC 4100	Presentation, Writing and Research Skills in the Geosciences	2	Van Buer				
GSC 4500/L	Intro to Seismology	3	Polet	GSC 4010/L	GIS Applications for Earth and Environmental Scientists	3	Nourse				
GSC 4700	Volcanology	3	Polet and Van Buer	GSC 4440/L	Tectonics	3	Van Buer				
GSC 4910L	Field Module	1	Osborn	GSC 4910L	Field Module	1	Van Buer				
GSC 4910L	Field Module	1	Nourse	GSC 4910L	Field Module	1	Murray				
GSC 4910L	Field Module	1	Polet	GSC 4990/L	Isotope Geochemistry	3	Van Buer and Osborn				
GSC 5010	Adv. Topics in Geosciences	2	All	GSC 5450/L	Advanced Hydrogeology	3	Osborn				
GSC 5030L	Field Investigations	1	Van Buer	GSC 5680/L	Advanced Seismology	3	Polet				
GSC 5340/L	Quaternary Geology	3	Marshall	GSC 6930	Thesis Proposal	1	All				
GSC 6930	Thesis Proposal	1	All	GSC 6940	Thesis Research	Varies	All				
GSC 6940	Thesis Research	Varies	All	GSC 6960	Masters Degree Thesis	1	All				
GSC 6960	Masters Degree Thesis	1	All								
Fall 2020--Semester System				Spring 2021--Semester System							
Course #	Course Title	Semester Units	Instructor	Course #	Course Title	Semester Units	Instructor				
GSC 4010/L	GIS Applications	3	New Person	GSC 4100	Presentation, Writing and Research Skills in the Geosciences	2	Osborn and New Person				
GSC 4230/L	Sedimentary Geology	3	Murray	GSC 4150/L	Advanced Engineering Geology	3	Nourse and Roumelis				
GSC 4340/L	Shallow Subsurface Geophysics	3	Polet	RS 4200/L	Watershed Restoration	3	Marshall				
GSC 4800	Quantitative and Computer Skills in Geosciences	3	Polet	GSC 4240/L	Igneous / Metamorphic Petrology	4	Van Buer				
GSC 4910L	Field Module	1	Marshall	GSC 4320/L	Soil Physics	3	Osborn				
GSC 4910L	Field Module	1	Nourse	GSC 4910L	Field Module	1	Van Buer				
GSC 5010	Adv. Topics in Geosciences	2	All	GSC 4910L	Field Module	1	Murray				
GSC 5030L	Field Investigations	1	Nourse	GSC 5950/L	Advanced Topics in Sedimentology/ Stratigraphy	3	Murray				
GSC 5330/L	Advanced Structure / Tectonics	3	Van Buer and Nourse	GSC 5990/L	Remote Sensing	3	New Person				
GSC 6930	Thesis Proposal	1	All	GSC 6930	Thesis Proposal	1	All				
GSC 6940	Thesis Research	Varies	All	GSC 6940	Thesis Research	Varies	All				
GSC 6960	Masters Degree Thesis	1	All	GSC 6960	Masters Degree Thesis	1	All				
Fall 2021--Semester System				Spring 2022--Semester System							
Course #	Course Title	Semester Units	Instructor	Course #	Course Title	Semester Units	Instructor				
GSC 4230/L	Sedimentary Geology	3	Murray	GSC 4010/L	GIS Applications	3	New Person				
GSC 4500/L	Intro to Seismology	3	Polet	GSC 4100	Presentation, Writing and Research Skills in the Geosciences	2	Polet				
GSC 4700	Volcanology	3	Polet and Van Buer	RS 4200/L	Watershed Restoration	3	Marshall				
GSC 4910L	Field Module	1	Osborn	GSC 4240/L	Igneous / Metamorphic Petrology	4	Van Buer				
GSC 4910L	Field Module	1	Nourse	GSC 4440/L	Tectonics	3	Nourse				
GSC 4990/L	Specialty Class TBD	1	New Person	GSC 4910L	Field Module	1	Van Buer				
GSC 5010	Adv. Topics in Geosciences	2	All	GSC 4910L	Field Module	1	Murray				
GSC 5030L	Field Investigations	1	Van Buer	GSC 5450/L	Advanced Hydrogeology	3	Polet				
GSC 5340/L	Quaternary Geology	3	Marshall	GSC 5680/L	Advanced Topics in Seismology	3	Polet				
GSC 6930	Thesis Proposal	1	All	GSC 6930	Thesis Proposal	1	All				
GSC 6940	Thesis Research	Varies	All	GSC 6940	Thesis Research	Varies	All				
GSC 6960	Masters Degree Thesis	1	All	GSC 6960	Masters Degree Thesis	1	All				