

## Master of Arts with Major in Geography

The department offers a thesis and a nonthesis option for the Master of Arts (M.A.) in Geography that provides excellent training for careers in teaching, geographical information science, urban and regional analysis, environmental studies, community development, government and business, as well as training for advanced graduate work.

For the thesis and nonthesis options, students must complete a minimum of five graduate (6000 level) courses in geography. No more than 9 credits of course work from outside the department will be counted toward the degree. No more than 3 credits of directed independent study (such as GEO 6908 or GLY 6908) may be used to fulfill the minimum credits for either degree option.

The thesis student must successfully complete the minimum of five graduate courses (15 credits) in geography; 6 credits of master's thesis, including a successful thesis defense; and an additional minimum of 9 credits from geography or related programs for a total of 30 credits. The thesis option student should normally choose a thesis advisor no later than the second semester of study.

The nonthesis student must successfully complete the minimum of five graduate courses (15 credits) in geography; a 3-credit graduate seminar in the history and content of geography (GEO 6118 or equivalent); plus 3 credits in geography at the 5000 level or above; and an additional minimum of 12 credits from geography and geology or related programs for a total of 33 credits.

### Thesis Option Summary:

Master's Thesis	GEO 6971	6
Cognate work in geography or other programs, to fulfill individual needs		9
Required graduate courses from list below		<u>15</u>
Minimum credits for thesis degree:		<b>30</b>

### NonThesis Option Summary:

Research in the Geosciences	GEO 6118	3
Geography electives at the 5000 level or above		3
Cognate work in geography or other programs, to fulfill individual needs		12
Required graduate courses from list below		<u>15</u>
Minimum credits for nonthesis degree:		<b>33</b>

### Graduate Course Offerings in Geography

Minimum of five courses from the following:

Seminar in Geographic Methodology and Techniques	GEO 6117	3
Advanced Remote Sensing	GIS 6039	3
Topics in Geoinformation Science	GIS 6120	3
Land Information Systems	GIS 6541	3
Seminar in Urban Area Analysis	GEO 6608	3
Seminar in Regional or Systematic Geography	GEO 6938	3
Thesis Seminar	GLY 6931	3

## Master of Science with Major in Geology

The department offers a thesis and nonthesis option Master of Science (M.S.) in Geology. Students may develop a focus in hydrogeology, coastal processes, or paleontology or they may select from a broad range of courses for a more versatile degree. The program is excellent training for careers in geological and environmental consulting, staff positions at regulatory agencies, preparation for becoming a professional geologists, as well as for advanced graduate studies.

For both the thesis and nonthesis options, students must complete a minimum of five graduate (6000-level) courses in geology. No more than 9 credits of course work from outside the department will be counted toward the degree. No more than 3 credits of directed independent study (such as GLY 6908 or GEO 6908) may be used to fulfill the minimum required credits for either degree option.

The thesis student must successfully complete a minimum of five graduate courses (15 credits) in geology; 6 credits of master's thesis, including a successful thesis defense; and an additional minimum of 9 credits from geology or related programs for a total of 30 credits. The thesis option student should normally choose a thesis advisor during the second semester of study.

The nonthesis student must successfully complete a minimum of five graduate courses (15 credits) in geology; plus 6 credits in geology at the 5000 level or above; and an additional minimum of 12 credits from geology or related programs for a total of 33 credits.

### Thesis Option Summary:

Master's Thesis	GLY 6971	6
Cognate work in geology or other programs to fulfill individual needs		9
Required graduate courses from list below		<u>15</u>
Minimum credits for thesis degree:		<b>30</b>

### NonThesis Option Summary:

Geology electives at the 5000 level or above		6
Cognate work in geology or other programs to fulfill individual needs		12
Required graduate courses from list below		<u>15</u>
Minimum credits for nonthesis degree:		<b>33</b>

### Graduate Course Offerings in Geology

Minimum of five courses from the following:

Paleomalacology	GLY 6619C	3
Paleoecology	GLY 6661C	3
Regolith Geology	GLY 6707	3
Coastal Environments	GLY 6737	3
Ancient Marine Environments	GLY 6745	3
Global Environmental Change	GLY 6746	3
Optimization Applications in Groundwater	GLY 6826	3
Advanced Hydrogeology	GLY 6827C	3
Groundwater Solute Transport Modeling	GLY 6828	3
Computer Watershed Modeling	GLY 6835	3
Modeling Groundwater Movement	GLY 6836	3
Coastal Hazards	GLY 6888	3
Thesis Seminar	GLY 6931	3
Special Topics in Applied Geology	GLY 6934	3