Department of Geography - Learning Outcomes Undergraduate Majors

**Outcome Number 1 - All Undergraduate Majors**

Students will demonstrate knowledge of the major physical features of the Earth and the ability to locate examples of Earth’s major physical features on a map.

**Outcome Number 2 - All Undergraduate Majors**

Students will demonstrate knowledge of the major cultural features of the Earth and the ability to locate examples of Earth’s major cultural features on a map.

**Outcome Number 3 - All Undergraduate Majors**

Students will demonstrate knowledge of quantitative methods used by geographers and their ability to use statistical software to solve geographic problems.

**Outcome Number 4 - All Undergraduate Majors**

Students will demonstrate knowledge of the foundations and theories of geographic information systems (GIS) and use the tools and methods of GIS.

**Learning Outcome 5 - Physical Geography Majors**

Students will demonstrate their knowledge of physical geography and the methods and techniques for observing, measuring, recording and reporting on geographic phenomena.

**Learning Outcome 5 - Geographic Information Systems Majors**

Students will demonstrate their competence to work individually and as a team to develop and present a client-driven GIS solution.

**Learning Outcome 5 - Resource and Environmental Studies Majors**

Students will demonstrate their knowledge of resource and environmental issues. Students will also be able to demonstrate their knowledge of the role that geography can play in analyzing resource / environmental degradation and improving resource / environmental management.

**Learning Outcome 5 - Urban and Regional Planning Majors**

Students will demonstrate their knowledge of urban and regional planning and how effective land management influences the utility of the land.
Learning Outcome 5 - Water Studies Majors

Students will demonstrate their knowledge of the formation, use, conservation and management of water resources including legal, economic, political and societal factors and the evaluation of attempts to manage water resources. Students will also be able to demonstrate a working knowledge of hydrology, water availability and quality, hazards, use, demand and allocation.

Learning Outcome 5 - General Geography Majors

Students will demonstrate their knowledge of one specialized area of geography and demonstrate their expertise in this specialized area of geography.

Learning Outcome 5 - Geography Majors Seeking Teacher Certification

Students will demonstrate their knowledge of the K-12 Geography Texas Essential Knowledge and Skills (TEKS) and the National Geography Content Standards. Students will also demonstrate their knowledge of identifying instructional resources and materials, designing instructional units and fully developing grade-level appropriate inquiry-based lessons and student assessments.

Learning Outcomes General Education - Geography

Outcome Number 1

Students will demonstrate knowledge of the major physical features of the Earth and the ability to locate examples of Earth’s major physical features on a map.

Outcome Number 2

Students will demonstrate knowledge of the major cultural features of the Earth and the ability to locate examples of Earth’s major cultural features on a map.

Learning Outcomes General Education - Geology

Outcome Number 1

Students will demonstrate their knowledge of the concepts and theories of Physical Geology and their ability to locate examples of major physical geological features of the Earth on a map.

Outcome Number 2

Students will demonstrate their knowledge of the geologic history of the Earth and their ability to locate examples of major historical geological features of the Earth on a map.
Department of Geography - Learning Outcomes M.A.G. Program

Outcome Number 1

Students will demonstrate an understanding of current research within the breadth of geography, as well as more in depth knowledge of research in their specialty areas.

Outcome Number 2

Students will demonstrate an understanding of basic spatial statistics and multivariate quantitative and analytical methods, and other appropriate tools for spatial analysis.

Outcome Number 3

Students will demonstrate an understanding of the components of research design including problem definition, theory, literature review, methodology, and analysis.

Outcome Number 4

Students will demonstrate significant research and writing expertise resulting in a meaningful scholarly contribution.

Outcome Number 5

Students will be prepared to apply their skills in professional careers.

Department of Geography - Learning Outcomes M.S. Program

Outcome Number 1

Students will demonstrate an understanding of current research within the breadth of geography, as well as more in depth knowledge of research in their specialty areas.

Outcome Number 2

Students will demonstrate an understanding of basic spatial statistics and multivariate quantitative and analytical methods, and other appropriate tools for spatial analysis.

Outcome Number 3

Students will demonstrate an understanding of the components of research design including problem definition, theory, literature review, methodology, and analysis.
Outcome Number 4

Students will demonstrate significant research and writing expertise resulting in a meaningful scholarly contribution.

Outcome Number 5

Students will be prepared to apply their skills in professional careers.

Department of Geography - Learning Outcomes Ph.D. Program

Outcome Number 1

Students will demonstrate an advanced understanding of the historical development of geographical thought, and the major current philosophical and theoretical debates in geography.

Outcome Number 2

Students will demonstrate an advanced understanding of the development of a theoretically meaningful geography or geographic education research problem and the components of a research proposal.

Outcome Number 3

Students will demonstrate advanced proficiency in the use of technical tools for geographic research including quantitative methods and other appropriate tools for spatial analysis.

Outcome Number 4

Students will demonstrate significant research and writing expertise resulting in meaningful scholarly contributions.

Outcome Number 5

Students will be prepared for advanced-level careers in academia, with governmental research and educational organizations, or within the private sector.