Geospatial information sciences (GISc) harness groundbreaking technologies for Spatial Big Data Analytics that make location and interaction key to our understanding of social and environmental dynamics. GISc graduates will master the knowledge and skills to spatially integrate data and computing resources for informed evidence-based decision making in environmental modeling, business intelligence, precision agriculture, smart cities, public safety, and community resilience, just to name a few.

Recent technological innovations have greatly enhanced our ability to collect and analyze massive environmental, social, and economic data about places as well as location data about individuals. Now ever before, unmanned aviation vehicles (UAV) equipped remote sensors provide near-real time imagery for search, rescue and damage assessment after a disaster. Lidar data clouds enable us to build high resolution 3D models of buildings, trees, and terrains. Location-based services and mobile geospatial apps allow us to search information based on proximity to our locations (e.g. find nearby restaurants) and connect our social networks in both physical and cyber spaces (e.g. four-square check-ins). From Microsoft and Apple to Google, and from United Nation and states to indigenous communities, geospatial information science and technologies play an essential role for social-environmental inventory, planning, and forecasting of food, water, energy, and health. These technologies include geographic information systems (GIS), the Global Positioning System (GPS) and satellite based remote sensing. They penetrate virtually every aspect of our lives, from digital maps in cars to the maintenance of city infrastructure, regional agriculture and forest lands.

GIS has revolutionized traditional disciplines such as geography and inspired scientists from a broad range of fields to combine efforts on leading-edge research.

**Careers in Geospatial Information Sciences**
GISc graduates will encounter a wide variety of career options, as businesses and governments race to take advantage of technological advances. If they wish to enter the public sector, they may work in areas such as public administration and policy analysis; public safety, criminology and emergency preparedness management; geospatial intelligence; environmental management; or urban, regional, social service and transportation planning. Businesses also recruit GISc graduates, especially companies focused on marketing; site selection, logistics and real estate; resource exploration (including petroleum) and others.

Students who graduate with a BS also may move on to graduate school, perhaps entering UT Dallas’ highly regarded MS or PhD geospatial programs, which were recently ranked in the top 5 in the nation. The University’s Career Center is an important resource for students pursuing their career. Licensed counselors are available to provide strategies for mastering job interviews, writing professional cover letters and resumes and help students connect with campus recruiters, among other services.
Geospatial Information Sciences at UT Dallas
The general BS degree requires 120 semester credit hours to graduate: 42 semester credit hours from the University's core curriculum, 42 semester credit hours from the major and 32 semester credit hours of electives.
Every new generation inherits a world more complex than that of its predecessors, which prompts a need for new thinking about public policies that impact people’s daily lives. In the School of Economic, Political and Policy Sciences (EPPS), we examine the implications of innovation and change for individuals and communities.

As an undergraduate in EPPS, you will have the chance to work with professors who are probing issues that will affect your future. You will develop the vital skills you need to thrive in a rapidly evolving, highly competitive job market. EPPS will prepare you for careers in government, non-profits and the private sector that enable you to make a real difference in the world of today and tomorrow.

EPPS is at the forefront of leadership, ethics and innovation in the public and nonprofit sectors. Our students and faculty look forward to new opportunities to study and address the complex and evolving issues of the future.

**Degrees Offered**

*Bachelor of Science and Bachelor of Arts:* Criminology, economics, geospatial information sciences, international political economy, political science, public affairs, sociology

*Master of Science:* Criminology, economics, geospatial information sciences, international political economy, justice administration and leadership

*Master of Arts:* Political science, political science-constitutional law, political science-legislative studies

*Master of Public Affairs:* Public affairs

*Master of Public Policy:* Public policy

*Doctor of Philosophy:* Criminology, economics, geospatial information sciences, political science, public affairs, public policy and political economy

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