

Post-Baccalaureate Certificate in Geographic Information Systems

About This Program

The Post-Baccalaureate Certificate in Geographic Information Systems (GIS) is designed for students and professionals wishing to acquire skills in spatial data analysis. GIS is a powerful computer-based analytical tool used at all levels of government, in business, industry, and institutions. GIS skills are a must in many different fields including urban planning, engineering, geology, and the social sciences. In planning for instance, GIS skills provide professionals a spatial analytical edge with application in all areas of planning including land use, environmental, transportation and economic development planning.

Competencies

1. Upon completion, students will be able to communicate planning information clearly and effectively in oral, written, and graphic form.
2. Upon completion, students will be able to relate knowledge of the ethical and normative aspects of planning to the planning process.
3. Upon completion, students will be able to identify and evaluate planning problems and to apply planning methods to their solution and communication.
4. Upon completion, students will be able to identify and relate the factors influencing the growth and development of communities, cities, and regions.
5. Upon completion, students will be able to understand the challenges that regions, cities, communities, and planners face in the field.

Admissions Criteria

Applying for admission to the GIS-Certificate program does not require the GRE or a degree in planning and should be done as a Non-Degree Seeking Student (<https://www.uta.edu/academics/schools-colleges/gradschool/admissions/>) through the Graduate Admissions.

Up to 12 credit hours in the GIS Certificate earned as a non-degree seeking student may be applied to the Master's degree in City and Regional Planning, subject to the policies on grades and graduate credit described in the Catalog.

Students can also complete the certificate as part of the accelerated online MPA program by completing hours applicable to the MPA degree.

Curriculum

Foundations

PLAN 5331	GIS WORKSHOP	3
PLAN 5356	INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS	3
PLAN 5357	INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS	3

Electives

Select two from the following with approval of the GIS Certificate program advisor: 6

Engineering

CE 5349	ADVANCED GIS AND HYDROLOGIC AND HYDRAULIC MODELING	
CSE 5330	DATABASE SYSTEMS	

Earth and Environmental Science

GEOL 5323	REMOTE SENSING FUNDAMENTALS	
-----------	-----------------------------	--

Planning

PLAN 5333	GRAPHICS AND MULTIMEDIA COMMUNICATION IN PLANNING	
PLAN 5340	GIS AND SUITABILITY ANALYSIS	

Total Hours

15

Program Completion

To obtain the 15-credit hour certificate, students must maintain a GPA of 3.0 in their coursework.

Advising Resources

The College of Architecture, Planning and Public Affairs (CAPPA) at UT Arlington equips students with skills and knowledge to address real-world challenges in design, public policy, and research. Our Advising Office supports academic and career success. Explore our Future Students page to connect with an Academic Advisor and shape your future.

Location:

203 CAPPA Building

Email:

cappa.advising@uta.edu

Phone:

817-272-2801

Web:

General advising (<https://www.uta.edu/academics/schools-colleges/cappa/general-advising/>)

Future students (<https://www.uta.edu/academics/schools-colleges/cappa/admissions/>)