

GUIDED PATHWAY: GEOGRAPHIC INFORMATION SYSTEMS–TECHNICIAN CERTIFICATE

MANUFACTURING and INDUSTRIAL TECHNOLOGY CAREER PATH



For more information, visit the [Dallas College Geographic Information Systems webpage](http://www.dcccd.edu/GIS) [www.dcccd.edu/GIS] and your academic advisor at the Brookhaven campus.

This is an example course sequence for students interested in pursuing Geographic Information Systems Technology. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn a Geographic Information Systems Technician Certificate. Students must earn at least 25% of the credit hours required for graduation through instruction by Dallas College. Visit the catalog for [official certificate requirements](#).

The Geographic Information Systems Technology Program would prepare graduates to perform duties of a Geographical Information Systems (GIS) technician (skills developed upon completion of a certification program). The students would be able to use a variety of GIS application programs; acquire and correlate data from geographical positioning system (GPS) surveying and other sources; design the database for storage of the data; and present the results in a cartographic format. The program combines classroom and laboratory experience with cooperative experience.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Level II Certificate	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
TSI	Must be Complete	

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students. This is not an official degree plan. See catalog for [official certificate requirements](#).

CERTIFICATE MINIMUM: 44 SEMESTER CREDIT HOURS

SEMESTER 1

Total Hours: 11

[GISC 1125](#) – Concepts and Careers in Geographic Information Systems
[GISC 1411](#) – Introduction to Geographic Information Systems (GIS)
[ENGL 1301](#) – Composition I *This is a Core course. You must earn a grade of "C" or better.*
[MATH 1314](#) – College Algebra *This is a Core course. You must earn a grade of "C" or better.*

SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm academic and career goals before the end of the semester.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing.

SEMESTER 2

Total Hours: 12

[GISC 1401](#) – Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning Systems
[GISC 2320](#) – Intermediate Geographic Information Systems (GIS)
[GISC 1147](#) – Three-Dimensional Analysis in Geographic Information Systems
[GISC 1421](#) – Introduction to Raster-Based Geographic Information Systems (GIS)

SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to request an official program of study audit and confirm or update your academic/career path and program of study.

SEMESTER 3**Total Hours: 12**

[GISC 1391](#) – Special Topics in Cartography
[GISC 2311](#) – Geographic Information Systems (GIS) Applications
[GISC 2401](#) – Data Acquisition and Analysis in Geographic Information Systems (GIS)
[GISC 1145](#) – Geographic Information Systems (GIS) for Engineers
[GISC 1191](#) – Special Topics in Cartography

SEMESTER 3 ACTION ITEMS

1. Meet with a career advisor or coach for assistance in preparing for job search.

SEMESTER 4**Total Hours: 9**

[SOCI 2319](#) – Minority Studies *This is a Core course.*
[GISC 2335](#) – Programming for Geographic Information Systems (GIS)
[GISC 2380](#) – Cooperative Education-Cartography

SEMESTER 4 ACTION ITEMS

1. After successfully completing the coursework listed above, apply for graduation for the Geographic Information Systems Technician Certificate.
2. Sign up for commencement.
3. Join the [Alumni Network!](#)

PATHWAY TOTAL: 44 SEMESTER CREDIT HOURS