

GUIDED PATHWAY: GEOGRAPHIC INFORMATION SYSTEMS SPECIALIST

A.A.S. 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 Specialist Associate of Applied Science (A.A.S.) degree. Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Dallas College. Visit the catalog for [official degree requirements](#).

The Geographic Information Systems Technology Program would prepare graduates to perform duties of a GIS specialist (upon completion of an associate degree). 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. Courses that complete the degree also complete [Geographic Information Systems Technician Certificate](#) (GC) and are listed below.

Visit the [NTCCC Transfer Consortium](#) to view guided pathways created for students who complete an A.A.S. degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your campus to choose courses that will help you to transfer to a specific university.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Associate of Applied Science	
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 degree requirements](#).

AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS

SEMESTER 1	Total Hours: 11
<p>GISC 1125 – Concepts and Careers in Geographic Information Systems (Course also applies to GC)</p> <p>GISC 1411 – Introduction to Geographic Information Systems (GIS) (Course also applies to GC)</p> <p>ENGL 1301 – Composition I This is a Core course. You must earn a grade of “C” or better. (Course also applies to GC)</p> <p>MATH 1314 – College Algebra This is a Core course. You must earn a grade of “C” or better. (Course also applies to GC)</p>	
<p>SEMESTER 1 ACTION ITEMS</p> <ol style="list-style-type: none"> 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
<p>GISC 1401 – Cartography and Geography in Geographical Information Systems (GIS) and Global Positioning Systems (Course also applies to GC)</p> <p>GISC 2320 – Intermediate Geographic Information Systems (GIS) (Course also applies to GC)</p> <p>GISC 1147 – Three-Dimensional Analysis in Geographic Information Systems (Course also applies to GC)</p> <p>GISC 1421 – Introduction to Raster-Based Geographic Information Systems (Course also applies to GC)</p>	

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 (*Course also applies to GC*)
[GISC 2311](#) – Geographic Information Systems (GIS) Applications (*Course also applies to GC*)
[GISC 2401](#) – Data Acquisition and Analysis in Geographic Information Systems (GIS) (*Course also applies to GC*)
[GISC 1145](#) – Geographic Information Systems (GIS) for Engineers (*Course also applies to GC*)
[GISC 1191](#) – Special Topics in Cartography (*Course also applies to GC*)

SEMESTER 3 ACTION ITEMS

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

SEMESTER 4

Total Hours: 13

- [GEOL 1403](#) – Physical Geology *This is a Core course.*
[SOCI 2319](#) – Minority Studies *This is a Core course. (Course also applies to GC)*
[GISC 2335](#) – Programming for Geographic Information Systems (GIS) (*Course also applies to GC*)
[GISC 2380](#) – Cooperative Education-Cartography (*Course also applies to GC*)

SEMESTER 4 ACTION ITEMS

1. Meet with your advisor to apply for the Geographic Information Systems Technician Certificate.

SEMESTER 5

Total Hours: 12

- [GISC 2231](#) – Advanced Problems in Geographic Information Systems (GIS) *This is the capstone experience for this award.*
[HUMANITIES/FINE ARTS ELECTIVE*](#) *This is a Core course.*
[GISC 2459](#) – Web-Served Geographic Information Systems (GIS)
CHOOSE ONE: [SPCH 1311](#) – Introduction to Speech Communication *This is a core course.* **OR**
[SPCH 1315](#) – Public Speaking *This is a Core course.*

SEMESTER 5 ACTION ITEMS

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

PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS