

## BS IN GIS + CS

# DEGREE IN THREE ACADEMIC MAP

### 2022-2023 CATALOG YEAR

Cloud computing, big data, and Internet of Things (IoT) have dramatically impacted use of geospatial data. The GIS+CS degree at UNT addresses these needs by producing graduates who understand the complexities of geospatial data and are able to leverage computing techniques to convert such data into meaningful information. This degree is highly marketable and offers an advantage in an increasingly competitive job market.

**Credit by Examination or Dual Credit upon Entry as a Freshman (earned through qualifying scores on appropriate Advanced Placement Exams, International Baccalaureate)\*:**

UNT Course	Hrs.
ENGL 1310 College Writing I or TECM 1700 Intro to Professional, Science & Technical Writing (C or better)	3
ENGL 1320 College Writing II or TECM 2700 Technical Writing (C or better)	3
Creative Arts	3
HIST 2610 US History to 1865	3
HIST 2620 US History Since 1865	3
Component Area Option A	3
Language, Philosophy & Culture	3
PSCI 2305 US Political Behavior & Policy	3
PSCI 2306 US & TX Constitutions & Institutions	3
MATH 1650 Pre-Calculus (C or better)	3
<b>Total hours</b>	<b>30</b>

#### Year 1 at UNT:

FALL	Hrs.
GEOG 3500	3
CSCE 1030/1035 (See Advisor for options)	4
Social & Behavioral Science (GEOG 1200 recommended)	3
Life & Physical Science (GEOG 1710 recommended)	3
MATH 1710 (Component Area Option 2 - see Advisor to discuss options)	3-4
<b>Total hours</b>	<b>16-17</b>

#### Milestones

- See your Faculty Advisor to declare major.
- See your Academic Advisor to plan for next semester.
- All courses in the major must be completed with a C or better.

SPRING	Hrs.
Life & Physical Science	3
GEOG 4550	3
CSCE 1040/1045 (See Advisor to discuss options)	3
Elective	3
Elective	3
<b>Total hours</b>	<b>15</b>

#### Milestones

- See your Academic Advisor to plan for next semester.
- Consider studying abroad (see Study Abroad).
- All courses in the major must be completed with a C or better.

**Year 2 at UNT:**

<b>FALL</b>	<b>Hrs.</b>
CSCE 2100	3
CSCE 2110	3
GEOG 4560	3
Elective (advanced)	3
Elective	3
<i>Total hours</i>	<i>15</i>

**Milestones**

- See your Academic Advisor to plan for next semester.
- Consider possible minor(s) and/or certificate(s) to replace electives (see Academic Advisor).
- All courses in the major must be completed with a C or better.

<b>SPRING</b>	<b>Hrs.</b>
GEOG 4590	3
GIS + CS Track Elective (advanced)	3
GIS + CS Track Elective (advanced)	3
GIS Elective (advanced)	3
Elective	3
<i>Total hours</i>	<i>15</i>

**Milestones**

- See your Academic Advisor to plan for next semester.
- Consider an internship (see the Career Center).
- All courses in the major must be completed with a C or better.

**Year 3 at UNT:**

<b>FALL</b>	<b>Hrs.</b>
GEOG 4570	3
GIS + CS Track Elective (advanced)	3
GIS + CS Track Elective (advanced)	3
Elective	3
Elective	3
<i>Total hours</i>	<i>15</i>

**Milestones**

- Complete a Pre-Graduation Check with the College of Liberal Arts and Social Sciences Advising Office.
- Update resume and start job search (see Career Center).
- All courses in the major must be completed with a C or better.

<b>SPRING</b>	<b>Hrs.</b>
GIS + CS Track Elective (advanced)	3
Elective (advanced)	3
Elective (advanced)	3
Elective	3
Elective	3
<i>Total hours</i>	<i>15</i>

**Milestones**

- Apply for graduation within the first two weeks.
- Reach a total of at least 42 advanced hours.
- Reach a total of at least 120 credit hours.
- Reach at least the 2.0 UNT & Overall GPA requirement.
- All courses and prerequisites in the major must be completed with a grade of C or better in order to graduate.

\* An explanation of UNT credit for qualifying AP/IB scores is available online at <http://catalog.unt.edu> under the Admissions section of the catalog. Additionally, dual enrollment equivalents are also listed in the catalog under the TCCNS chart section.