Curriculum Flow Chart for Computer Science + Geography & GIS

Semester 1
- CS 124
- CS 100
- MATH 220 or 221
- GIS Elective**
- LAS 101

Semester 2
- CS 128
- CS 173
- MATH 231
- GGIS 371

Semester 3
- CS 225
- CS 222
- MATH 257 or 225
- GGIS 379

Semester 4
- CS 233
- CS 340
- Stat Foundations*

Semester 5
- CS 341
- CS tech***
- GGIS 380

Semester 6
- CS 374
- CS tech***
- GIS Elective**
- GEOG Elective**

Semester 7 and 8
- CS 421
- CS tech***
- GIS Elective**
- GEOG Elective**

Follow the College of LAS General Education & Language Requirements.

A line from one course to another indicates that the first course is a prerequisite for the second, concurrent enrollment acceptable where there are straight arrows, curved arrows indicate courses can be taken in either order but should not be taken together.

*Stat Foundations: CS 361 (recommended), STAT 200, or STAT 212

**See course explorer for course prerequisites: https://courses.illinois.edu

***CS tech must be 400-level CS above CS 403, excluding CS 421 and CS 491.
Curriculum Plan: Computer Science + GGIS Beginning Fall 2022

General Education Requirements
- Composition I
- Advanced Composition
- 4th Level Language (LOTE)
- 3hrs Humanities and the Arts
- 3hrs Humanities and the Arts
- 3hrs Social Behavioral Science
- 3hrs Social Behavioral Science
- 3hrs Natural Sciences & Technology
- 3hrs Natural Sciences & Technology

Cultural Studies
- Western Culture
- Non-Western Culture
- US Minority Culture

Math & Stat Courses
- MATH 220 5hrs, Calc or MATH 221 4hrs, Calc I
- MATH 231 3hrs, Calc II
- MATH 257 3hrs, Lin Alg w/Apps. or MATH 225 2hrs, Intro to Matrix Theory
- STAT Foundations: CS 361** 3hrs, STAT 200 or STAT 212

Computer Science Courses
- CS 100 1hr, CS Orientation (Recommended)
- CS 124 3hrs, Intro to Computer Science I
- CS 128* 3hrs, Intro to Computer Science II
- CS 173** 3hrs, Discrete Structures
- CS 222* 1hr, Software Design Lab
- CS 225** 4hrs, Data Structures
- CS 340** 3hrs, Intro to Computer Systems
- CS tech*** 3hrs, 400-level CS Elective
- CS tech*** 3hrs, 400-level CS Elective
  OR
- CS 233** 4hrs, Computer Architecture
- CS 341** 4hrs, Systems Programming
- CS 374** 4hrs, Algorithms & Models of Computation
- CS 421** 3hrs, Programing Languages and Compilers

Required GGIS Courses
- GGIS 371 4hrs, Spatial Analysis
- GGIS 379 4hrs, Intro to GIS Systems
- GGIS 380 4hrs, GIS II: Spatial Prob. Solving

GIS Electives, 6hrs**
- GGIS _____ 3/4hrs
- GGIS _____ 3/4hrs

GIS Electives (Human and/or Physical), 6hrs**
- GGIS _____ 3/4hrs
- GGIS _____ 3/4hrs

*Has prerequisites and/or co-requisite; See Course Explorer
**Consult GGIS Advisor
***400 level above CS 403, excluding CS 421 and CS 491. These two courses must be distinct from all other courses used to fulfill program requirements or options.

Additional Notes
To meet a course’s prerequisites you will need to have earned the listed prerequisite credit or be on path to earn the prerequisite credit before the course begins. Some courses are offered fall-only or spring-only. Be sure to plan ahead!

Working ahead in your CS coursework does not guarantee entrance into the next CS course.

120 hours required for graduation
60 hours required for residency

It is recommended that you work in concert with your assigned academic advisor to ensure you are on track to successfully complete your degree.