Curriculum Flow Chart for Computer Science + Geography & GIS

Semester					
Semester 1	CS 124	CS 100	MATH 220 or 221	GIS Elective**	LAS 101
Semester 2	CS 128	CS 173	MATH 231	GEOG 371	
Semester 3	CS 225 ↔ CS 222		MATH 257 or 225	GEOG 379	
Semester 4	CS 233	CS 240	Stat Foundations*		
		OR			
Semester 5	CS 241	CS tech***		GEOG 380	
Semester 6	CS 374			GEOG Elective**	
Semesters 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 2021

_____ LAS 101/LAS 102 (int. students)

General Education Requirements

_____ Composition I

_____ Advanced Composition

_____ 4th Level Language (LOTE)

_____ 3hrs Humanities and the Arts

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_____ 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/Comp. Apps. or
      MATH 225 2hrs, Into Matrix Theory

_____ STAT Foundations:
      CS 361** 3hrs, STAT 200 or STAT 212

Computer Science Courses

_____ CS 100 1hr, Fresh 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 240** 3hrs, Intro to Computer Systems**

_____ **CS tech*** 3hrs, 400-level CS Elective**

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OR

_____ **CS 233** 4hrs, Computer Architecture**

_____ **CS 241** 4hrs, Systems Programming**

_____ CS 374** 4hrs, Algorithms & Models of Computation

_____ CS 421** 3hrs, Programing Languages and Compilers

*Has prerequisites and/or co-requisite; See Course Explorer **&** if you have earned credit for CS 225, see a CS advisor

** Has prerequisites and/or co-requisite; See Course Explorer

***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.

Required GGIS Courses

_____ GEOG 371 4hrs, Spatial Analysis

_____ GEOG 379 4hrs, Intro to GIS Systems

_____ GEOG 380 4hrs, GIS II: Spatial Prob. Solving

GIS Electives, 6hrs**

_____ GEOG _____ 3/4hrs

_____ GEOG _____ 3/4hrs

GEOG Electives (Human and/or Physical), 6hrs**

_____ GEOG _____ 3/4hrs

_____ GEOG _____ 3/4hrs

*Has prerequisites and/or co-requisite; See Course Explorer

**Consult GGIS Advisor

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.