Curriculum Flow Chart for Math and Computer Science

Group I: CS 361, MATH 461, OR STAT 400/MATH 463

Group II: MATH 412, MATH/CS 413, MATH 417, or MATH 427

Group III: MATH 441, MATH 446, or MATH 484

Group IV: MATH 444, or MATH 447, or MATH 424

Group V: MATH 414, CS/MATH 473, CS/MATH 475, CS 476, CS 477

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

*CS tech must be 400-level CS above CS 403, excluding CS 421 and CS 491.
Curriculum Plan: Math and Computer Science Beginning Fall 2021

General Education Requirements

-LAS 101/LAS 102 (int. students)

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 Courses

MATH 220 5hrs, Calc or

MATH 221 4hrs, Calc I

MATH 231 3hrs, Calc II

MATH 241 4hrs, Calc III

MATH 347 3hrs, Fund. Math or

MATH 348 3hrs, Fund Math (ACP)

MATH 257 3hrs, Lin Alg w/Comp. Apps. (preferred) or

MATH 415 3hrs, Linear Algebra or

MATH 416 3hrs, Abstract Linear Algebra

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

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

OR

CS 233** 4hrs, Computer Architecture

CS 241** 4hrs, Systems Programming

CS 357** 3hrs, Numerical Methods

CS 374** 4hrs, Algorithms & Models of Comp

CS 421** 3hrs, Programing Languages and Compilers

CS 450** 3hrs, Numerical Analysis

Additional Group Course

Student must select one (1) course from each of the following groups:

- **Group I:** CS 361 (preferred), MATH 461, OR STAT 400/MATH 463

- **Group II:** MATH 412 (preferred), MATH/CS 413, MATH 417, or MATH 427

- **Group III:** MATH 441, MATH 446, or, MATH 484

- **Group IV:** MATH 424, MATH 444, OR MATH 447

- **Group V:** MATH 414, CS/MATH 473, CS/MATH 475, CS 476, CS 477

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 residency hours required for graduation

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