Curriculum Plan: Math & Computer Science

General Education Requirements

- Composition 1
- Advanced Composition
- 3hrs Western
- 3hrs Non-Western
- 3hrs Humanities & the Arts
- 3hrs Humanities & the Arts
- 3hrs Social and Beh. Science
- 3hrs Social and Beh. Science
- 3hrs Natural Sciences & Technology
- 3 hrs Natural Sciences & Technology
- 4th Level Language

Math Courses

- MATH 220 or 221
- MATH 231
- MATH 241
- MATH 347
- MATH 415
- MATH 461, 463, CS 361 or STAT 400
- MATH 412 or 417
- MATH 444 or 447
- MATH 441, 446 or 484

Computer Science Courses

- CS 100 Freshman Orientation
- CS 125 Intro to Computer Science
- CS 173 Discrete Structures
  (Prereq CS 101 or CS 125 + CALC)
- CS 225 Data Structures (Prereq CS 125 & CS 173)
- CS 233 Computer Architecture
  (Prereq CS 125 & CS 173 + (CS 225 or concurrent))
- CS 241 System Programming
  (Prereq CS 225 + (CS 233 or concurrent))
- CS 242 Programming Studio (Prereq CS 241)
- CS 357 Numerical Methods I
  (Prereq 1 CS course, MATH 225 or 415 & MATH 241)
- CS 374 Algorithms & Models of Comp
  (Prereq CS 173 & CS 225)
- CS 421 Progmrng Languages & Compilers
  (Prereq CS 233 & CS 374) or CS 423 Operating Systems
  Design (Prereq CS 241)
- CS 450 Numerical Analysis (Prereq CS 125, 357, or
  MATH 415, MATH 285) or CS 457 Numerical Methods II
  (Prereq CS 357)
- CS 498 DL 1 Theory II or CS 476, 477, 481 or MATH
  414 (will become CS 473)

Additional Notes

- 120 hours required for graduation
- Prerequisites means you should have a successful grade earned before continuing on to the next course.

*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.

***CS 421 is recommended over CS 423

Recommended but NOT Required

(one of the following)

CS 427 and either 428 or 429
CS 492 and either 493 or 494
CS 499 (usually 2 semesters)

LAS General Education Distribution Requirements: [http://www.las.illinois.edu/students/requirements/gened/](http://www.las.illinois.edu/students/requirements/gened/)