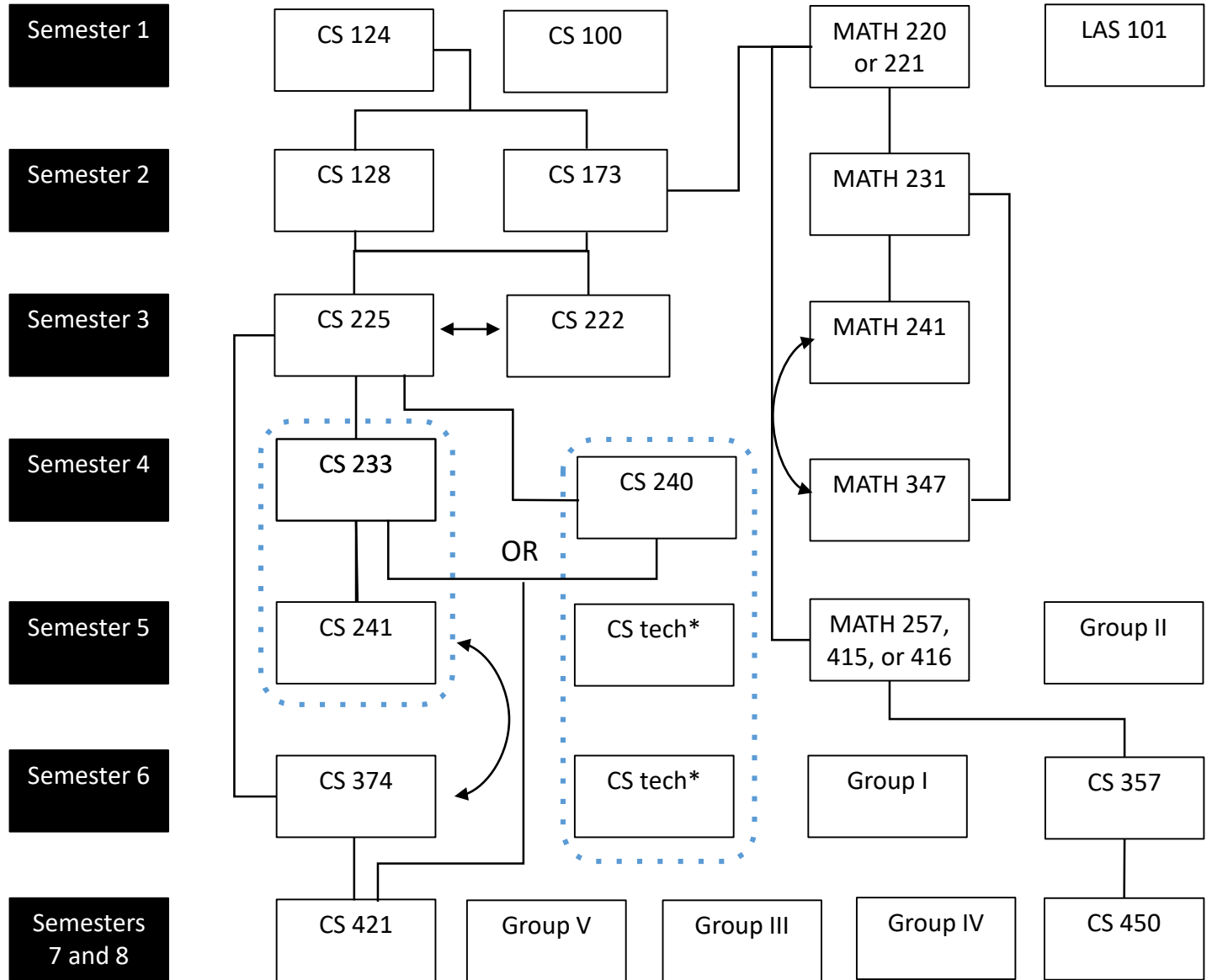


Curriculum Flow Chart for Math and Computer Science



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.

- 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

<p>_____ LAS 101/LAS 102 (int. students)</p> <p>General Education Requirements</p> <p>_____ Composition I</p> <p>_____ Advanced Composition</p> <p>_____ 4th Level Language (LOTE)</p> <p>_____ 3hrs Humanities and the Arts</p> <p>_____ 3hrs Humanities and the Arts</p> <p>_____ 3hrs Social Behavioral Science</p> <p>_____ 3hrs Social Behavioral Science</p> <p>_____ 3hrs Natural Sciences & Technology</p> <p>_____ 3hrs Natural Sciences & Technology</p> <p>Cultural Studies</p> <p>_____ Western Culture</p> <p>_____ Non-Western Culture</p> <p>_____ US Minority Culture</p>	<p>Computer Science Courses</p> <p>_____ CS 100 1hr, Fresh. Orientation (<i>Recommended</i>)</p> <p>_____ CS 124 3hrs, Intro to Computer Science I</p> <p>_____ CS 128* 3hrs, Intro to Computer Science II</p> <p>_____ CS 173** 3hrs, Discrete Structures</p> <p>_____ CS 222* 1hr, Software Design Lab</p> <p>_____ CS 225** 4hrs, Data Structures</p> <hr/> <p>_____ CS 240** 3hrs, Intro to Computer Systems</p> <p>_____ CS tech*** 3hrs 400-level CS Elective</p> <p>_____ CS tech*** 3hrs 400-level CS Elective</p> <p style="text-align: center;"><i>OR</i></p> <p>_____ CS 233** 4hrs, Computer Architecture</p> <p>_____ CS 241** 4hrs, Systems Programming</p> <hr/> <p>_____ CS 357** 3hrs, Numerical Methods</p> <p>_____ CS 374** 4hrs, Algorithms & Models of Comp</p> <p>_____ CS 421** 3hrs, Programing Languages and Compilers</p> <p>_____ CS 450** 3hrs, Numerical Analysis</p> <hr/> <p>*Has prerequisites and/or co-requisite; See Course Explorer & if you have earned credit for CS 225, see a CS advisor</p> <p>** Has prerequisites and/or co-requisite; See Course Explorer</p> <p>***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.</p>	<p>Student must select one (1) course from each of the following groups:</p> <p>_____ Group I: CS 361 (preferred), MATH 461, OR STAT 400/MATH 463</p> <p>_____ Group II: MATH 412 (preferred), MATH/CS 413, MATH 417, or MATH 427</p> <p>_____ Group III: MATH 441, MATH 446, or, MATH 484</p> <p>_____ Group IV: MATH 424, MATH 444, OR MATH 447</p> <p>_____ Group V: MATH 414, CS/MATH 473, CS/MATH 475, CS 476, CS 477</p> <p>_____ Additional Group Course</p> <hr/> <p>Additional Notes</p> <p>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!</p> <p>Working ahead in your CS coursework does not guarantee entrance into the next CS course.</p> <p>_____ 120 hours required for graduation</p> <p>_____ 60 residency hours required for graduation</p> <hr/> <p><i>It is recommended that you work in concert with your assigned academic advisor to ensure you are on track to successfully complete your degree.</i></p>
<p>Math Courses</p> <p>_____ MATH 220 5hrs, Calc or</p> <p style="padding-left: 20px;">MATH 221 4hrs, Calc I</p> <p>_____ MATH 231 3hrs, Calc II</p> <p>_____ MATH 241 4hrs, Calc III</p> <p>_____ MATH 347 3hrs, Fund. Math or</p> <p style="padding-left: 20px;">MATH 348 3hrs, Fund Math (ACP)</p> <p>_____ MATH 257 3hrs, Lin Alg w/Comp. Apps. (preferred) or</p> <p style="padding-left: 20px;">MATH 415 3hrs, Linear Algebra or</p> <p style="padding-left: 20px;">MATH 416 3hrs, Abstract Linear Algebra</p>		