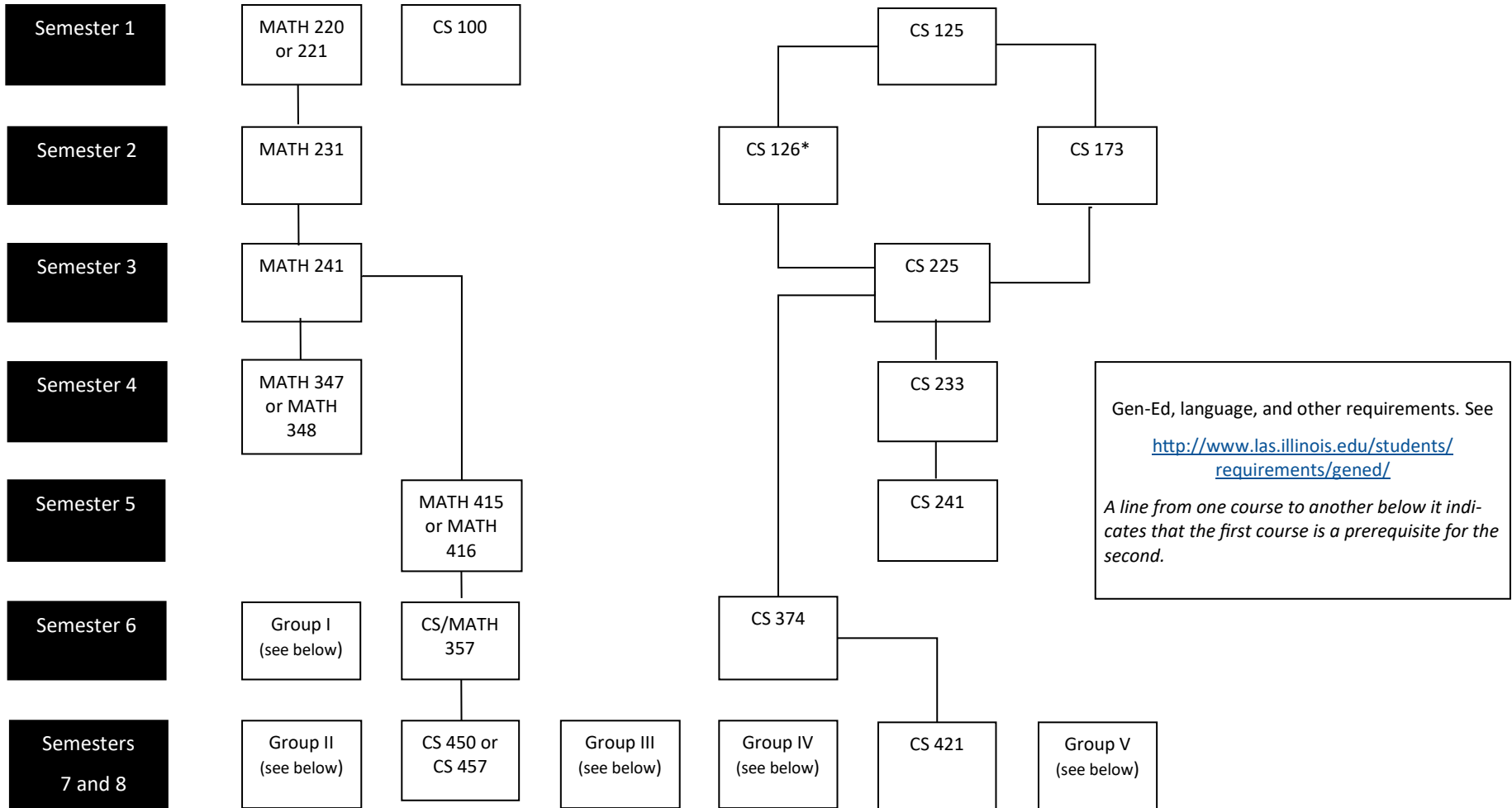


Curriculum Flow Chart for the Mathematics and Computer Science Major



Group Requirements: Must take one from each group

*CS 242 is you have earned credit for CS 225 before entering the major

Group I: CS 361 (preferred), MATH 461 or STAT 400/MATH 463

Group II: MATH 412 (preferred) or MATH 417

Group III: MATH 441, MATH 446 or MATH 484

Group IV: MATH 444 or MATH 447

Group V: MATH 414, CS/MATH 473, CS/MATH 475, CS 476, CS 477, CS 481 or CS 482

Curriculum Plan: Math & Computer Science (for students that entered Fall 2018 or after)

Name: _____ UIN: _____ Date: _____

<p>____ LAS 101</p> <p>General Education Requirements</p> <p>____ Composition 1</p> <p>____ Advanced Composition</p> <p>____ 3hrs Western</p> <p>____ 3hrs Non-Western</p> <p>____ 3hrs US Minority (FA18 & after)</p> <p>____ 3hrs Humanities and the Arts</p> <p>____ 3hrs Humanities and the Arts</p> <p>____ 3hrs Social and Beh. Science</p> <p>____ 3hrs Social and Beh. Science</p> <p>____ 3hrs Natural Sciences & Technology</p> <p>____ 3hrs Natural Sciences & Technology</p> <p>____ 4th Level Language</p>	<p>Computer Science Courses</p> <p>____ CS 100 1hr, Freshman Orientation</p> <p>____ CS 125 4hrs, Intro to Computer Science</p> <p>____ CS 126* 3hrs, Software Design Studio (Prereq CS 125)</p> <p>____ CS 173 3hrs, Discrete Structures (CS 125 and CALC)</p> <p>____ CS 225 4hrs, Data Structures (Prereq CS 125 and CS 173)</p> <p>____ CS 233 4hrs, Computer Architecture (Prereq CS 125, CS 173 & CS 225 or concurrent)</p> <p>____ CS 241 4hrs, System Programming (Prereq CS 225 & CS 233)</p> <p>____ CS 357 3hrs, Numerical Methods I (Prereq 1-- CS course, MATH 241; MATH 225, 415, 416, or concurrent)</p> <p>____ CS 374 4hrs, Algorithms and Models of Comp (Prereq CS 225)</p> <p>____ CS 421 3hrs, Programing Languages and Compilers (Prereq CS 233 and CS 374)</p> <p>____ CS 450 3hrs, Numerical Analysis (Prereq CS 125, MATH 285; CS 357 or MATH 415 or 416) or CS 457 3hrs, Numerical Methods II (Prereq CS 357)</p> <p>* CS 242 if you have earned credit for CS 225</p>	<p>Students must select at least six 400-level mathematics and computer science courses, including one from each of the following five groups:</p> <p>Group I CS 361 (preferred), MATH 461 or STAT 400</p> <p>Group II MATH 412 (preferred) or MATH 417</p> <p>Group III MATH 441, MATH 446 or MATH 484</p> <p>Group IV MATH 444 or MATH 447</p> <p>Group V MATH 414, CS/MATH 473, CS/MATH 475, CS 476, CS 477, CS 481 or CS 482</p> <p>Additional Notes</p> <p>____ 120 hours required for graduation</p> <p>Prerequisites means you should have a successful grade earned before continuing on to the next course.</p> <p>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>Math Courses</p> <p>____ MATH 220 5hrs, CALC or MATH 221 4hrs, CALC I</p> <p>____ MATH 231 3hrs, CALC II</p> <p>____ MATH 241 4hrs, CALC III</p> <p>____ MATH 347</p> <p>____ MATH 415 3hrs, Applied Linear Algebra</p>		