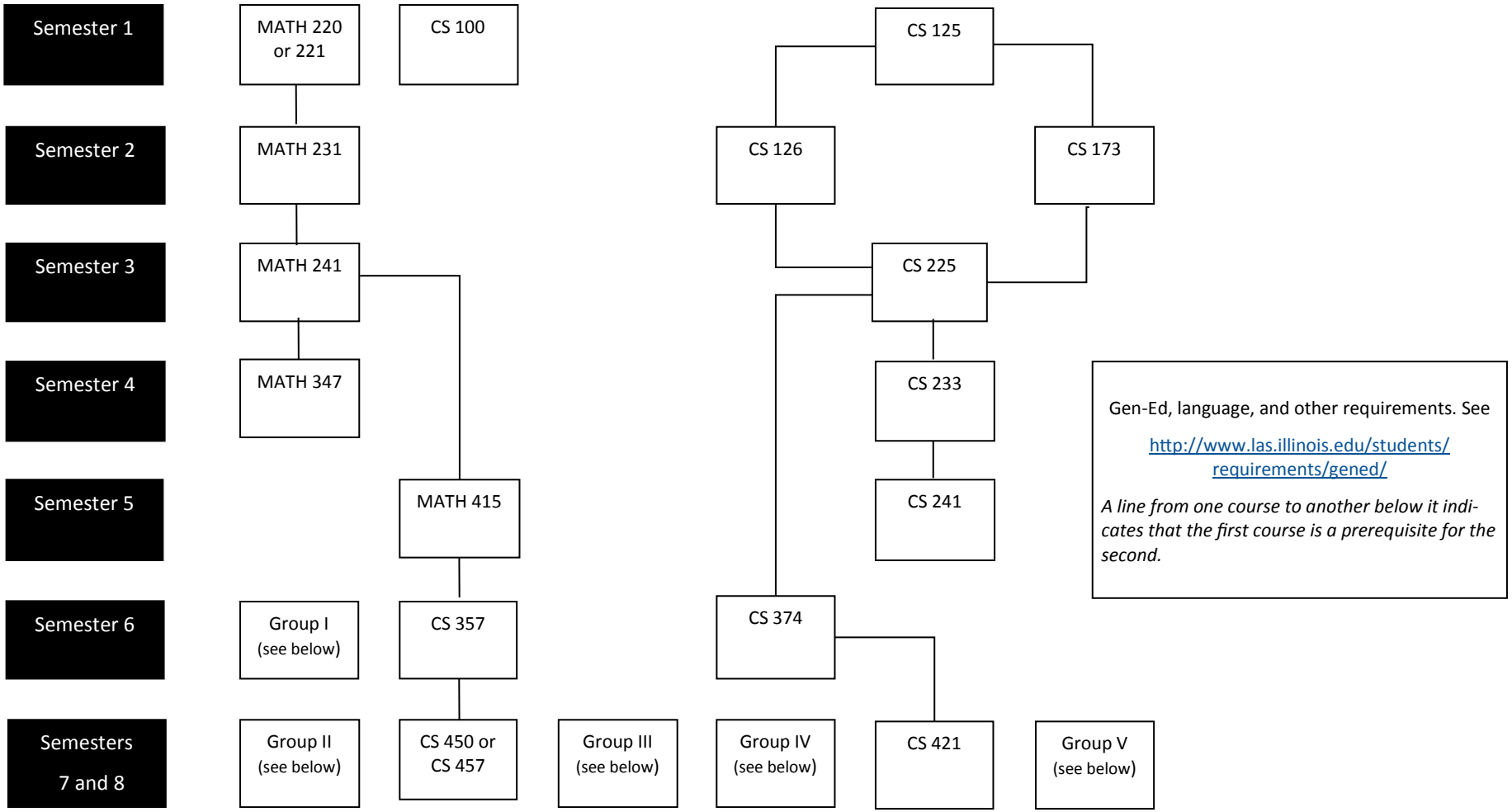
Curriculum Flow Chart for the Mathematics and Computer Science Major



Group Requirements: Must take one from each group

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

Group II: MATH 412 (preferred) or MATH 417

Group III: MATH 441, MATH 446 or MATH 484

Group IV: MATH 444 or MATH 447

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

Name: _____ UIN: _____ Date: _____

_____ LAS 101

General Education Requirements

_____ Composition 1

_____ Advanced Composition

_____ 3hrs Western

_____ 3hrs Non-Western

_____ 3hrs US Minority (FA18 & after)

_____ 3hrs Humanities and the Arts

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_____ 3hrs Social and Beh. Science

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_____ 3hrs Natural Sciences & Technology

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_____ 4th Level Language

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. Mathematics

_____ MATH 415 3hrs, Applied Linear Algebra

Computer Science Courses

_____ CS 100 1hr, Freshman Orientation

_____ CS 125 4hrs, Intro to Computer Science

_____ CS 126* 3hrs, Software Design Studio

(Prereq CS 125)

_____ CS 173 3hrs, Discrete Structures

(CS 125 and CALC)

_____ CS 225 4hrs, Data Structures

(Prereq CS 125 and CS 173)

_____ CS 233 4hrs, Computer Architecture

(Prereq CS 125, CS 173 & CS 225)

_____ CS 241 4hrs, System Programming

(Prereq CS 225 & CS 233)

_____ CS 357 3hrs, Numerical Methods I

(Prereq 1-- CS course, MATH 241; MATH 225 or 415)

_____ CS 374 4hrs, Algorithms and Models of Comp

(Prereq CS 173 and CS 225)

_____ CS 421 3hrs, Programing Languages and Compilers

(Prereq CS 233 and CS 374)

_____ CS 450 3hrs, Numerical Analysis (Prereq CS 125, MATH 285; CS 357 or MATH 415) or CS 457 3hrs, Numerical Methods II (Prereq CS 357)

* Students who entered before FA16 must take CS 242 instead of 126

Students must select at least six 400-level mathematics and computer science courses, including one from each of the following five groups:

Group I

CS 361 (preferred), MATH 461 or STAT 400

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

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.