Curriculum Flow Chart for the Computer Science + Crop Science

- **Semester 1**: MATH 220 or 221, CPSC 112, ACES 101, CS 100
- **Semester 2**: MATH 231, CPSC 261^, CPSC 265^, CS 125, CS 225
- **Semester 3**: Math 225, Group I^, CS 126, CS 374
- **Semester 4**: CS 361, CCPCS 265^, Group I^, CS 225
- **Semester 5**: CPSC 266, CPSC 352^, CS 240 or CS 233 & 241, CS 374
- **Semester 6**: Group II^, CS 4—level*, CS 412
- **Semesters 7 and 8**: CPSC 440^, CPSC 498^, Group II^, CS 4—level*

Follow the College of ACES requirements for General Education & Language.
A line from one course to another below it indicates that the first course is a prerequisite for the second.

Group I select two course from CPSC 226, 270 or PLPA 204
Group II select two course from CPSC 418, 452, 453 or 466

*6hrs CS 4—level technical electives must be approved courses by the CS department

^Denotes that the course has prerequisites, prerequisites can be found in Course Explorer
## Curriculum Plan: CS + Crop Science, who entered Fall 2018 and after

### Name: ________________________________  UIN: ________________________________  Date: ________________________________

### General Education Requirements

- **ACES 101 Freshman, 202 transfer**
- Composition 1
- Advanced Composition
- 3hrs Western Cultures
- 3hrs Non-Western Cultures
- 3hrs US Minority Cultures (FA18 & after)
- 3hrs Humanities and the Arts
- 3hrs Humanities and the Arts
- 3hrs Social and Beh. Science
- 3hrs Social and Beh. Science
- 3rd Level Language

### 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 240 3hrs, Intro to Computer Systems (Prereq CS 125 and CS 173; CS 225) or
  - CS 233 Computer Architecture 4hrs and CS 241 4hrs, Systems Programming
- CS 374 4hrs, Algorithms and Models of Comp (Prereq CS 173 and CS 225)
- CS 421 3hrs, Programming Languages and Compilers (Prereq CS 233 and CS 374)
- **CS 4— level Tech Elective 3hrs**
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*Transfer students entering with CS 225 credit must take CS 242 instead of CS 126.

**CS 4— Tech Elective chosen in consolation with CS advisor.

### Math Courses

- MATH 220 5hrs, Calculus or
- MATH 221 4hrs, Calculus I
- MATH 231 3hrs, CALC II
- MATH 225 2hrs, Intro Matrix Theory
- CS 361 3hrs, Probability and Stats for CS

### Crop Science Core:

- CPSC 112 4hrs, Introduction to Crop Sciences
- & _____ 2 of the following:
  - CPSC 226 3hrs, Introduction to Weed Science,
  - CPSC 27 3hrs, Applied Entomology or
  - PLPA 204 3hrs, Introductory Plan Pathology
- CPSC 261 3hrs, Biotechnology in Agriculture
- CPSC 265 3hrs, Genetic Engineering Lab
- CPSC 266 4hrs, Data in Biology and Agriculture
- CPSC 352 4hrs, Plant Genetics
- CPSC 440 4hrs, Applied Statistical Methods I
- & _____ 2 of the following:
  - CPSC 418 3hrs, Crop Growth and Management,
  - CPSC 452 3hrs, Advanced Plant Genetics
  - CPSC 453 4hrs, Principles of Plant Breeding or
  - CPSC 466 2hrs, Genomics for Plant Improvement
- CPSC 498 1hr, Crop Sci Professional Development

### Additional Notes

- 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.

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126 hours required for graduation