Requirements for the Computer Sciences major for fall 2017

Basic CS courses
- Introductory programming prerequisite: CS 200, 301, 302, 310, or (CS/ECE 252 + ECE 203) (the intro programming prerequisite is not required for the major, but is a prerequisite for CS 300)
- CS/Math 240: Introduction to Discrete Mathematics
- CS/ECE 252: Introduction to Computer Engineering
- CS 300: Programming II
- CS 354: Machine Organization and Programming
- CS 400: Programming III

Math requirement
- Basic Calculus—choose one option:
  - Math 221 & Math 222
  - Math 171 & Math 217 & Math 222
  - Math 275 & Math 276
- Math beyond basic calculus—two courses required. Course list & restrictions on course pairings found in The Guide.
  - Preferred courses: Stat 324 and Math 340

Advanced CS courses
- 6 advanced courses required. Course lists & restrictions on course pairings found in The Guide.
  - Theory—choose one course (CS 577 preferred)
  - Software/Hardware—choose two courses
  - Applications—choose one course
  - Electives—choose two courses

Honors in the Major
- GPA
  - 3.5 GPA minimum in all computer sciences courses and courses used to meet the “basic calculus” and “additional mathematics” major requirements
  - 3.3 GPA minimum in all coursework taken at UW-Madison
- Senior Honors Thesis
  - CS 681 & CS 682 Senior Honors Thesis
- Honors-Level Coursework
  - One Computer Sciences course, at the 500-level or above, and counted towards the major, taken for honors credit and completed with a “B” or better.

Requirements for the Computer Sciences certificate for fall 2017

Course requirements
- Introductory programming prerequisite: CS 200, 301, 302, 310, or (CS/ECE 252 + ECE 203) (the intro programming prerequisite is not required for the certificate, but is a prerequisite for CS 300)
- 5 Computer Sciences courses.
  - CS 300
  - Two Computer Sciences courses at the 400 level or higher. Excludes CS 402, 638, 699.