Fall 2020 Degree Requirements

Computer Science Core Courses

- ❖ CSC 1100 (3 cr.) Problem Solving & Programming
- ❖ CSC 1101 (1 cr.) Lab for Problem Solving & Programming
- ❖ CSC 1500 (3 cr.) Fundamental Structures
- ❖ CSC 1501 (1 cr.) Laboratory for Fundamental Structures
- ❖ CSC 2110 (3 cr.) Computer Science I
- ❖ CSC 2111 (1 cr.) Laboratory for Computer Science I
- ❖ CSC 2200 (3 cr.) Computer Science II
- ❖ CSC 2201 (1 cr.) Laboratory for Computer Science II
- ❖ CSC 3010 (3 cr.) Ethics in Computer Science
- ❖ CSC 3020 (3 cr.) Java Programming
- ❖ CSC 3100 (3 cr.) Architecture and Organization
- ❖ CSC 3101 (1 cr.) Laboratory for Architecture
- ❖ CSC 3110 (3 cr.) Algorithm Design and Analysis
- ❖ CSC 4110 (3 cr.) Software Engineering
- ❖ CSC 4111 (1 cr.) Laboratory for Software Engineering
- ❖ CSC 4420 (3 cr.) Computer Operating Systems
- ❖ CSC 4421 (1 cr.) Laboratory for Operating Systems
- ❖ CSC 4500 (3 cr.) Intro to Theoretical Computer Science
- ❖ CSC 4710 (3 cr.) Intro to Database Management Systems
- ❖ CSC 4996 (3 cr.) Senior Project and Computer Ethics
- ❖ CSC 4997 (1 cr.) Laboratory for Senior Project
- ❖ <u>Four additional CSC electives</u> (not including courses listed above) of at least 3 credits each, all numbered at or above 3000; excluding CSC 4990 & 4995

Mathematics Courses

- ❖ MAT 2010 (4 cr.) Calculus I
- ❖ MAT 2020 (4 cr.) Calculus II
- ❖ MAT 2030 (4 cr.) Calculus III
- ❖ MAT 2250 (3 cr.) Elementary Linear Algebra

Basic Engineering Courses

- ❖ BE 1200 (3 cr.) Design in Engineering
- ❖ BE 1600 (3 cr.) Computation & Programming: Python
- ❖ BE 2100 (3 cr.) Probability & Statistics in Engineering

Competency & Inquiry Course Requirements

- ❖ (BC) Basic Composition
- ❖ (CIV) Civic Literacy
- ❖ (CI) Cultural Inquiry
- ❖ (DEI) Diversity, Equity and Inclusion
- ❖ (GL) Global Learning
- ❖ (QE) Quantitative Experience
- ❖ (SI) Social Inquiry
- ❖ (WE) Wayne Experience

Program Specific Competency & Inquiry Requirements

- ❖ (IC) ENG 3050 or ENG 3010 (3 cr.)
- ❖ (OC) ENG 3060 (3 cr.) Technical Communication II
- ❖ (NSI) PHY 2175 (4 cr.) University Physics I*
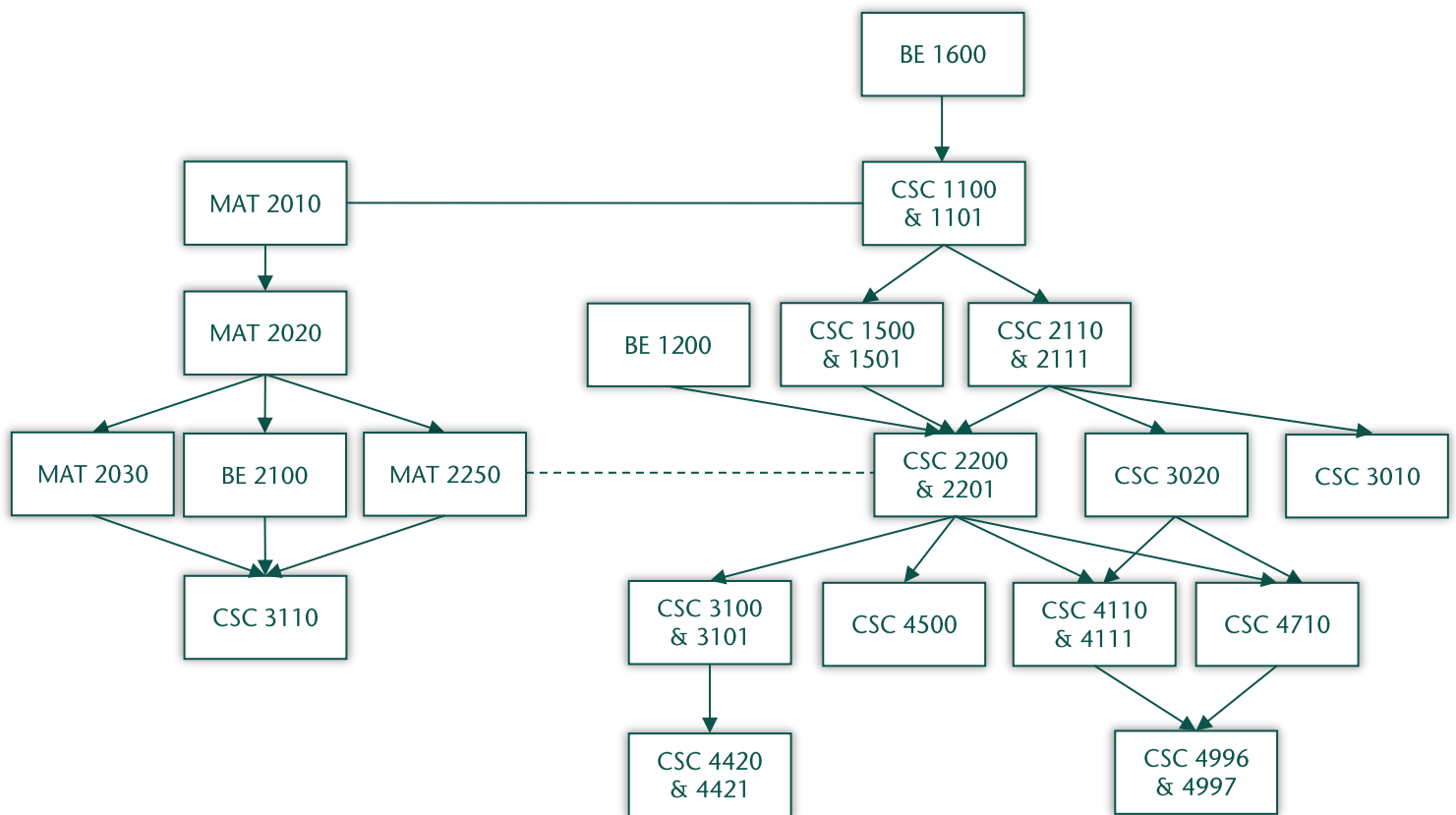- ❖ (NSI) PHY 2185 (4 cr.) University Physics II*

*Must meet Lab Requirement with PHY 2171 or PHY 2181(1 cr.)

College of Engineering and Department of Computer Science Academic Policies

- ❖ A minimum grade of C is required in CSC 1100 & 1101, 1500 &1501, CSC 2110 & 2111, and CSC 2200 & 2201 (no exceptions).
- ❖ A minimum of 28 credits in CSC courses must be earned at WSU.
  - o Maximum of 64 transfer credits from a two-year institution will apply toward the degree.
- ❖ All other courses including CSC, MAT, BE, and courses within the General Education program must adhere to the requirements of the Engineering Division (grades of C-minus or better). Maximum of 2 semesters on probation (under 2.0 GPA), maximum of 3 repeats of any course, maximum of 5 substandard grades, minimum cumulative and major GPA of 2.0 to graduate

Accelerated Graduate Enrollment Program (AGRADE)

- ❖ Earn up to 16 credits toward a Computer Science master's degree while completing your bachelor's degree.
- ❖ An AGRADE applicant may petition the Graduate Committee of the Department for acceptance into the program in the first semester in which 90 credits will be completed. Applicants must have an overall grade point average (GPA) of 3.3 and a 3.45 GPA or better in the major courses already completed. Completion of CSC 2200/2201 & CSC 3110 suggested before applying.
- ❖ Approved CSC 5000 and 6000 level courses by the CS Grad Advisor and Graduate Program Officer may count as part of the four required CSC electives for the bachelor's degree and toward graduate credit for the master's degree.

BE 1600

CSC 1100 & 1101

MAT 2010

BE 1200

CSC 1500 & 1501

CSC 2110 & 2111

MAT 2020

MAT 2030

BE 2100

MAT 2250

CSC 2200 & 2201

CSC 3020

CSC 3010

CSC 3110

CSC 3100 & 3101

CSC 4500

CSC 4110 & 4111

CSC 4710

CSC 4420 & 4421

CSC 4996 & 4997

Course	Credits	Course Prerequisites and Corequisites
BE 1200	3	MAT 1800 (can be taken concurrently)
CSC 1100	3	BE 1600; Co-req: CSC 1101
CSC 1101	1	BE 1600; Co-req: CSC 1100
CSC 1500	3	CSC 1100 & 1101, MAT 2010; Co-req: CSC 1501
CSC 1501	1	CSC 1100 & 1101, MAT 2010; Co-req: CSC 1500
CSC 2110	3	CSC 1100 & 1101, MAT 2010; Co-req: CSC 2111
CSC 2111	1	CSC 1100 & 1101, MAT 2010; Co-req: CSC 2110
CSC 2200	3	BE 1200, CSC 1500 & 1501, CSC 2110 & 2111, MAT 2010; Co-req: CSC 2201
CSC 2201	1	BE 1200, CSC 1500 & 1501, CSC 2110 & 2111, MAT 2010; Co-req: CSC 2200
CSC 3010	3	CSC 2110 & 2111
CSC 3020	3	CSC 2110 & 2111
CSC 3100	3	CSC 2200 & 2201, MAT 2010; Co-req: CSC 3101
CSC 3101	1	CSC 2200 & 2201, MAT 2010; Co-req: CSC 3100
CSC 3110	3	CSC 2200 & 2201, MAT 2020, MAT 2030, MAT 2250, BE 2100
CSC 4110	3	CSC 2200 & 2201, CSC 3020, MAT 2010; Co-req: CSC 4111
CSC 4111	1	CSC 2200 & 2201, CSC 3020, MAT 2010; Co-req: CSC 4110
CSC 4420	3	CSC 2200 & 2201, CSC 3100 & 3101; Co-req: CSC 4421
CSC 4421	1	CSC 2200 & 2201, CSC 3100 & 3101; Co-req: CSC 4420
CSC 4500	3	CSC 2200 & 2201, MAT 2010
CSC 4710	3	CSC 2200 & 2201, CSC 3020, MAT 2010
CSC 4996	3	CSC 4110 & 4111, CSC 4710; senior standing in computer science; Co-req: CSC 4997
CSC 4997	1	CSC 4110 & 4111, CSC 4710; senior standing in computer science; Co-req: CSC 4996
Please see the Undergraduate Bulletin (bulletins.wayne.edu) and Class Schedule (registration.wayne.edu) for updates		

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