**Computer Science—Software Engineering Track**

**Department of Engineering and Computer Science**

**Engineering Building, Room 120  651-5257**

**NAME:**

**SOCI 1301**  
**CS 2336*, 2336L**  
**CS 1337, 1337L**

**MAJOR REQUIREMENTS: 42 HOURS**

- **CS 1301**  Introduction to Computer Science 3
- **cs 2336**, cs 2336L  Objects and Data Abstraction 3
- **CS 3305* (200, 2377)**  Data Structures and Algorithms 3
- **ENGR, ET, PHYS, or MATH ELECTIVE** 3

**TOTAL HOURS REQUIRED TO COMPLETE DEGREE** 120

*Core curriculum courses should be taken during the first two years of enrollment.*

**RECOMMENDATIONS**

- **Chemistry (102)**
- **Physics (102)**
- **Biology (102)**

**ADDITIONAL REQUIREMENTS FOR SOFTWARE ENGINEERING TRACK: 15 HOURS**

- **CS 3303**  Object-Oriented Software Development 3
- **Take nine hours from:**

**ELECTIVES: 2 HOURS**

- **3**

Note: This is **NOT** a degree plan. Before completion of 60 hours, students are allowed and encouraged to request an official degree plan in the office of the dean of the College of Agriculture, Science and Engineering, located in the Agriculture and Natural Sciences Building, Room 106 (or call 651-2585). After completing 60 hours, students will not be allowed to progress without requesting a degree plan.

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**Bachelor of Science Degree**

**BS.CS (307)**

- **CS 3307* (307)**  Algorithm Design and Analysis 3
- **CS 3310* Programming Languages** 3
- **CS 3315* (315)**  Scripting Languages 3
- **CS 3352* Operating Systems and Networking** 3
- **CS 3372* Net-Centric Computing** 3
- **CS 4325* (425)**  Computer Architecture 3
- **CS 4340* Database Systems** 3
- **CS 4385* (485)**  Concurrency and Distributed Systems 3
- **CS 4390* Software Development & Systems Prog.** 3
- **CS 4391* Software Development & Prof. Practice** 3

**REQUIRED MATH COURSES: 16 HOURS**

- **MATH 2321**  Discrete Structures I 3
- **MATH 2322**  Discrete Structures II 3
- **MATH 2414**  (241) Calculus II 4

**Take 6 hours from:**

- **MATH 3311* (411)**  Linear Algebra
- **MATH 3321* (221)**  Probability and Finite Mathematics
- **MATH 3325* Introduction to Proofs**
- **MATH 3340* (340)**  Calculus III
- **MATH 3342* (342)**  Differential Equations I
- **MATH 3343* Differential Equations II**
- **MATH 4310* (310)**  Modern Algebra
- **MATH 4340* (440)**  Complex Variables I
- **MATH 4341* (441)**  Advanced Calculus
- **MATH 4361* (461)**  Engineering Statistics
- **MATH 4362* (493)**  Introduction to Numerical Analysis

**TOTAL HOURS REQUIRED TO COMPLETE DEGREE** 120