

## Department of Computer Science & Information Technology

### PROGRESS CHECKLIST

Name \_\_\_\_\_ Term Entered \_\_\_\_\_ Expected Grad \_\_\_\_\_

#### Hood Core Curriculum and Total Credit (124) Requirements – See Hood College *Catalog*

##### Required Computer Science Courses

- CS 201 *Computer Science I*
- CS 202 *Computer Science II*
- CS 219 *Advanced Data Structures*
- CS 226 *Computer Organization and Design*
- CS 319 *Algorithm Analysis*
- CS 324 *Principles of Software Engineering*
- CS 329 *Introduction to Database Management Systems*
- CS 464 *Operating Systems*
- CS 471 *Programming Languages*
- CS 474 *Capstone Proseminar*
- CS 475 *Senior Project*
- CSIT 302 *Impact of Computers on Society (Also meets Global Studies requirement)*
  
- 9 credits of 300-level or above computer science elective courses, no more than three credits of which may be an internship or assistantship.
  
- CS \_\_\_\_\_
- CS \_\_\_\_\_
- CS \_\_\_\_\_

**Required Mathematics Courses (14 credits)**

- MATH 112 *Applied Statistics* OR Math 213 *Statistical Concepts and Methods* (3 credits)
- MATH 201 *Calculus I* (4 credits)
- MATH 202 *Calculus II* (4 credits)
- MATH 207 *Discrete Mathematics* (3 credits)

*Additional Mathematics for a minimum of 15 credits (including 14 credits for required courses).* Courses should be at least 200-level and may not be computer lab workshops offered in conjunction with calculus, linear algebra, or other courses. *MATH 398 Mathematics Tutorial* may be used.

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*Science courses for a total of 30 credits of mathematics and science.* Science courses should be selected from courses designed for science majors. Computer Science majors should be sure to take appropriate courses to meet Core Curriculum requirements. **Important: non-lab science courses for the Core do NOT count for the major.**

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**Science Courses which may be used to meet the requirement**

BIOL 112 Biology of Food & Nutrition	CHEM 209 Organic Chemistry I
BIOL 113 Newsstand Biology	CHEM 215 Quantitative Analysis
BIOL 114 Biodiversity: Past Present & Future	PHYS 101 General Physics I (Non-calculus)
BIOL 117 This Course Will Bug You	PHYS 102 General Physics II (Non-calculus)
BIOL 119 Biology of Marine Organisms	PHYS 203 Introductory Physics I (Calculus-based)
BIOL 201 Evolution & Ecology	PHYS 204 Introductory Physics II (Calculus-based)
BIOL 202 Physiology of Plants & Animals	PHYS 222 Intro Modern Physics
BIOL 203 Intro to Cell Biology & Genetics	PHYS 324 Mechanics
CHEM 101 General Chemistry I	PHYS 325 Electricity & Magnetism
CHEM 102 General Chemistry II	

## BSCS Course Prerequisite Structure

**Foundation:** CS I, CS II, Data structures, Computer Organization. These courses are Freshman/Sophomore or Sophomore level, depending on the student's entering preparation.

**Core:** Mid-level courses, which may be prerequisite to advanced courses. Algorithms, Database, Software Engineering. Sophomore/Junior level.

**Advanced Core:** Required courses with more prerequisites. Operating systems and Programming Languages. Junior/Senior level.

**Capstone:** Capstone Proseminar, Senior Project. Strictly senior level. Though only database and software engineering are specifically required, most required coursework should be completed **before** taking these courses, not piled up concurrently.

**Electives:** include AI, Data Comm, Architecture, Robotics, Machine Learning, Parallel Processing, Web Programming, Digital Logic(offered infrequently), and special topics.

