BS in SE Course Map (with relevant degree requirements)

This map shows the typical course sequences for BS/SE majors. The core CS courses requires a grade of C or higher to advance to the next course. The arrows indicate prerequisite(s) (solid arrows) or co-requisite(s) (dotted arrows).

YEAR 1
- CS2020 Intermed. Prog.
- CS2900 Intern. Prep.
- MATH 1280 Pre-calc
- MATH 2220 Discrete M.

YEAR 2
- CS2170/2190 Comp Org
- CS3350 Data Struc.
- CS3270/3080 OS
- CS3210 Intro. SW Security
- CS3000 Prof. & Soc. Issue
- MATH 1340 Calc I-1
- MATH 1350 Calc I-2
- Natural Science Lab 1
- Natural Science Lab 2

YEAR 3
- CS3540 Intro. SE
- MATH 2470 Statistics
- CS3900 Intern. in CS
- Three SE electives among:
  - CS 3060, 3140, 3160, 3240, 4120, or approved 3800/4800

YEAR 4
- CS4550 SW Archi. & Design
- CS4560 SW Testing Qual Assur
- CS4620 Database Manag. Sys
- CS4540 SE Project

Minimum of 15 credits in MATH required (after MATH1280)
Minimum of 30 credits in MATH and Science combined required (excluding CS courses)

GSWs and foreign language sequences (4 courses in same language) should be completed in early years. Both MATH1340(3) & 1350(3) or MATH1310(5) can be taken for Calc I req. MATH2470(3), MATH 3410(3), or both BA2110(3) & 2120(3) can be taken for Stat req. MATH electives can be chosen from MATH 2320, 3130, 3280, 3320, 3420, 3430. There are (4)+(4) or (5)+(5) credits natural science lab sequence courses. CS3900(3) is for full-time internships; CS3901(1-2) is for part-time internships. Internships must be pre-approved to get CS internship course credits.

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