



Minors in Scientific Computation and Modeling Minors must follow a general outline that allows for a significant individual flexibility. To declare a Scientific Computation and Modeling Minor, fill out the usual Declaration of Minor form **and** fill out this form and submit it to Pat Buist, administrative assistant for the Integrated Science Research Institute. If you have any questions, please contact your advisor or Professors Pruim or Adams.

Plans for completing the Scientific Computation and Modeling Minor

1. Introduction to Computation: CS 106 or CS 108 (circle one)
2. CS 112 (Introduction to Data Structures)
3. IS 141 (Computing With Databases)
4. Two of the following courses (circle two):
 - CS 212 (Data Structures and Algorithms)
 - CS 262 (Software Engineering)
 - CS 342 (Database Management Systems)
 - CS 352 (Computer Graphics)
 - CS 374 (High Performance Computing)
 - CS 372 (Numerical Analysis)
 - IS 341 (Database Administration)
 - IS 271 (Intro to Information Systems)
5. An approved interim or 200- or 300-level science or mathematics course that has CS 106 or CS 108 as a prerequisite.

As an alternative, students may propose to do an additional programming project in a regularly offered course that does not require computation of all students. Using such a project to meet this requirement does not preclude its use to receive honors credit for a course.

How do you plan to meet this requirement?

6. An approved investigatory project that involves significant scientific programming.
This requirement can be met in at least four ways:
 - (a) via an internship (e.g., CS 394, BIOL 385, CHEM 385)
 - (b) via a senior project (e.g., CS 396/398, CHEM 395, PHYS 384/395, MATH 395, GEOL 395)
 - (c) via a 300-level investigations course in one of the sciences or mathematics (e.g., BIOL 354)
 - (d) via a summer research experience (e.g., BIOL 399, CHEM 397)

How do you plan to meet this requirement?

Name _____ Major(s) _____

Signature _____ Date _____

Scientific Computation and Modeling Minor Advisor _____