COMPUTATIONAL SCIENCE (CONCENTRATION)

Computational Science Concentration

Code	Title
The Computational Science concentration consists of four core courses —	
MATH 145	Multi-variable Calculus
MATH 213	Linear Algebra and Differential Equations
CS 173	Intermediate Computer Science
or	
CS 181	Data Systems
One of	
CS 109	Discovering Computer Science
CS 110	Discovering Computer Science: Digital Media and Games
CS 111	Discovering Computer Science: Scientific Data and Dynamics
CS 112	Discovering Computer Science: Markets, Polls, and Social Networks
and an additional course which may be in another department, that must have a strong and persistent mathematical modeling or computing component and must be approved in advance by the Department of Mathematics or the Department of Computer Science.	

In addition, students must take a two-semester sequence of courses in a department other than Mathematics or Computer Science. A written plan for completing the concentration must be approved by the Department of Mathematics or the Department of Computer Science before the end of the student's junior year of study and prior to enrollment in the elective courses.   In particular, the elective course and cognate requirements specified above must be chosen consistently with a valid educational plan for the study of Computational Science (as defined above). Any mathematics major who wishes to complete this concentration must choose non-math courses as their elective courses. Any computer science major who wishes to complete this concentration must choose non-computer science courses for their elective courses. A double Mathematics and Computer Science major is not eligible for this concentration.