SCIN 2000 : Computational Modeling in the Sciences

This course will introduce students to the Python programming language in the context of using it as a tool to organize, analyze, and visualize scientific data. Students will then learn about methods of computational modeling that are routinely utilized in the physical and life sciences. These include quantum methods for small molecules, classical methods for large biological systems, and dynamical methods with a variety of applications. Designed for STEM majors. Prerequisites: MATH 1225 or 1240, and two college-level science courses numbered 1500 or higher (biology, chemistry, geology, or physics), or instructor permission. Lab fee.
Credits 0.0-3
Semester Offered
Spring