

COMPUTATIONAL SCIENCES, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

Program Description

The Computational Sciences minor provides the necessary skills to use computers to study and solve scientific, engineering and data-centric problems across a wide range of disciplines. The minor complements the areas of theory and experimentation found in traditional scientific and engineering studies through the use of computational modeling, algorithm design, and event-driven programming. Students will customize the minor by selecting two advanced courses in their discipline or related areas that build upon the computational foundations provided in prescribed courses. The minor will prepare students with the skills necessary to apply computational methods in a variety of scientific and engineering disciplines.

What is Computational Sciences?

Computational Sciences is the study and application of computational methods to understand, analyze and solve complex problems. It includes the design, development and evaluation of models and simulations of natural systems and complements traditional methods of theory and laboratory experiments. It seeks to provide a deeper understanding of scientific and engineering problems through the mathematical modeling of complex systems. A core topic is the design, implementation and evaluation of algorithms, both numerical and non-numerical, that address problems across a broad range of science and engineering disciplines.

You Might Like This Program If...

- You like to analyze and solve complex problems.
- You excel in mathematics.
- You want to apply computational methods to your discipline.