## UNIVERSITY OF

## INTERDISCIPLINARY COMPUTATIONAL SCIENCES (MINOR)

This program was approved for students entering the university in the Summer 2024–Spring 2025 catalog year. For more information about catalog year, go to Catalog Year Information (http://catalog.louisville.edu/ undergraduate/university-wide-unit-specific-policies/catalog-year/).

## **Minor in Interdisciplinary Computational Sciences**

Unit: College of Arts and Sciences (AS) (https://louisville.edu/ artsandsciences/home/)

Department: Physics and Astronomy (https://louisville.edu/physics/) Academic Plan Code(s): PHYSMINICS

The minor in Interdisciplinary Computational Sciences (ICS) focuses on computational techniques in physics, chemistry, and materials sciences.

## **Program Requirements**

To earn a minor, students must take 18 credit hours.

Code	Title	Hours
Scientific Programming		
PHYS 275	Introduction to Scientific Computing and Data Analysis	3
Computational S	cience Electives	9
Select three courses from the following:		
PHYS 390	Introductory Computational Physics	
CHEM 450	Introduction to Computational Chemistry and Molecular Modeling	
CHEM 555	Theory and Application of Computational Chemistry	
PHYS 565	Advanced Computational and Numerical Methoo in Physics	ls
Supporting Cour	ses	6
Choose two courses from the following:		
MATH 325	Introduction to Linear Algebra	
MATH 405	Differential Equations	
PHYS 350	Differential Equations for the Physical Sciences	
PHYS 450	Introductory Mathematical Physics	
Minimum Total Hours		18

At least three (3) semester hours of the requirements for a minor must be successfully completed while enrolled in the University of Louisville.