

## Interdisciplinary Minor in Scientific Computing

The minor in Scientific Computing is available to any student enrolled at Southeastern, but it is especially appropriate for majors in the College of Science and Technology. Individuals participating in the minor are required to take 18 hours of courses that are offered in the College. The required courses for the minor include:

**Required Courses:** .....6 hours

CMPS 152: Introduction to Programming for Scientists.....3 hours  
SC 200: Computational Methods for Scientists .....3 hours

**Discipline-Specific Project or Special Topics Course:** .....3 hours

GBIO 493: Special Topics in Biology .....3 hours  
CHEM 404: Special Topics in Chemistry.....3 hours  
MATH 383: Independent Projects.....3 hours  
PHYS 430: Special Topics in Physics.....3 hours

**Elective Courses:** .....9 hours

GBIO 153H: General Biology II Honors.....3 hours  
GBIO 314: Genetics Laboratory .....2 hours  
GBIO 408: Biological Data Analysis .....4 hours  
GBIO 409: Internship .....1-3 hours  
GBIO 411: Evolutionary Data Science .....4 hours  
CHEM 491: Theoretical Chemistry .....3 hours  
CHEM 492: Quantum Chemistry .....3 hours  
CMPS 443: Simulation and Modeling .....3 hours  
CMPS 451: Data Mining.....3 hours  
CMPS 470: Machine Learning .....3 hours  
MATH 360: Linear Algebra I .....3 hours  
MATH 380: Mathematical Statistics I .....3 hours  
MATH 392: Numerical Methods .....3 hours  
MATH 402: Partial Differential Equations .....3 hours  
MATH 415: Mathematical Modeling.....3 hours  
MATH 480: Mathematical Statistics II .....3 hours  
PHYS 225: Applied Physics Experience .....1 hour (may be repeated)