CMSE 202:
Computational Modeling Tools and Techniques
Spring 2017

4 credits

Two sections are available in the spring semester:

Spring 2017:
Sec. 001: Tues/Thurs 3:00-4:50 p.m.
Sec. 002: Mon/Wed 12:40-2:30 p.m.

Prerequisite: CMSE 201

This course is open to all MSU undergraduate students that meet the prerequisites, regardless of major!

Do you want to expand your programming skills and learn advanced techniques for data modeling and analytics? Do you want to explore the tools of data scientists, and learn how to model interesting problems like climate change, antibiotic resistance and fluid dynamics? Then enroll in CMSE 202!

This course is a continuation of CMSE 201 (Introduction to Computational Modeling) and focuses on standard methods and tools used in computational modeling and data analysis. Students will learn how to use advanced tools and techniques such as: Fourier transforms, graph theory, and machine learning. Students will also work in groups to improve their programming and software development skills by making use of debuggers, unit testing and version control.

This course is open to all MSU undergraduates that have successfully completed CMSE 201. **Note: this will be the second course required for an undergraduate minor in CMSE.**

Please contact Professor Dirk Colbry (colbrydi@msu.edu) with any questions.