

MINOR IN MODELING AND SIMULATION

SIMULATION APPLICATION TRACK

WHY PURSUE THIS MINOR?

Current scientists and engineers have limited knowledge of how to effectively apply modeling and simulation within their disciplines. Often existing computer tools are not capable of studying new systems with adequate fidelity as they were designed for known systems or they cannot scale in size. Therefore, students should understand basic modeling and simulation techniques to allow them to go beyond the capabilities of existing tools. Students will learn how to formally model complex systems and then to use computer simulation to study the system behavior. Science and engineering students looking to improve their ability to study complex systems in their field through the use of computer simulations will benefit from the simulation application track as they already have the prerequisite math, science, and programming coursework.

THIS MINOR IS A GREAT FIT FOR YOU IF YOU ARE MAJORING IN:

Computer Science	Physics
Mathematics	Electrical Engineering
Mechanical Engineering	Civil Engineering

Other disciplines may require additional prerequisite courses.

REQUIREMENTS FOR THE MINOR IN MODELING AND SIMULATION—SIMULATION APPLICATION TRACK:

- STAT 330: Probability and Statistics - 3 credits
- MSIM 205: Discrete Event Simulation - 3 credits
- MSIM 320: Continuous Simulation - 3 credits

and either

- MSIM 410: Model Engineering - 3 credits
- MSIM 451: Analysis for Modeling and Simulation - 3 credits

I AM READY TO DECLARE MY MINOR IN MODELING AND SIMULATION.

To declare your minor in modeling and simulation, simply visit the Academic Advisor and Program Manager in ECSB 1300. All pre-requisites must be satisfied to declare and an overall GPA of 2.00 is required for the minor to graduate.

Department of Modeling, Simulation and Visualization Engineering

www.odu.edu/msve