

# Modeling and Simulation Certificate

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## Modeling & Simulation Certificate Program Learning Outcomes

At the successful completion of this program, students will be able to:

1. Facilitate higher-order reasoning and problem-solving skills, develop collaboration abilities and refine general employability and occupation-specify skills.
2. Formulate an open-ended problem by considering the detail of the problem and define manageable questions to address that will lead to some conclusions or scientific results.
3. Construct the problem into mathematical model using multiple mathematical and statistical representations of relevant structures and relationships.
4. Compute and evaluate the solution to interpret the mathematical solution in the original context and communicate the results in an interdisciplinary setting.