

# ENGR-401 : Computational Applied Physics With Machine Learning

Computational and numerical techniques for problem-solving in applied physics. Methods for differential equations, Monte Carlo simulations, and modeling of physical systems (eg, fluid flows, waves). Programming of neural networks / machine learning to solve problems in engineering and applied science. Implemented in Python. Offered on demand.

**Credits** 3

**Prerequisites**

[PHYS-218](#) or [PHYS-221](#); [CSCI-101](#) or [CSCI-130](#);

**Term Offered**

May Term

**Session Cycle**

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