

## CSCE 5218 - Deep Learning

3 hours

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Hands-on introduction to deep learning emphasizing application using GPU-accelerated hardware to train multilayer machine learning models directly on raw input signals. Discusses the foundations of feedforward networks, convolutional neural networks, and recurrent networks, as well as their usage within popular reinforcement learning frameworks. Using real datasets and popular deep learning tools (e.g. Tensorflow, Keras) students create systems to make inferences from rich and varied raw data including speech, video and other sensor signals.

Prerequisite(s): None.

Course specific fees (in addition to tuition and mandatory):

Academic (AF) per hour: \$73.70

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