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**From:** <cc-undergraduateacademics-request@lists.gatech.edu> on behalf of CoC Undergraduate Academics <UndergraduateAcademics@cc.gatech.edu>

**Sent on:** Monday, August 21, 2023 1:18:41 PM

**To:** cc-undergraduateacademics@lists.gatech.edu

**Subject:** [cc-undergraduateacademics] Student Alert: New course announcement

Dear Students,

Please see the new course announcement below. The course would fall in the free elective category.

Special Topics: Computational Foundations of Machine Learning  
CX 4803-CML

Instructor: Prof. Edmond Chow  
Meeting Times: Mon/Wed 2:00-3:15

This course is designed for students who want to better understand machine learning methods through looking at pseudocode and programming them (e.g., from scratch with Matlab or any other language). We will implement machine learning algorithms and experiment with how they work on different types of data. The course is open to all majors at Georgia Tech including those in science and engineering.

In addition, this course will provide and strengthen the mathematical background needed to develop intuition for deeply understanding machine learning algorithms. Statistics, numerical optimization, and linear algebra will be used at a fundamental level necessary for quickly grasping and extending the main ideas behind machine learning.

This course is intended to be more abstract than other courses in machine learning, and applications of machine learning and machine learning programming frameworks will not be discussed. This course is especially suited to students who wish to pursue further courses or self-study in machine learning.

For more information: <https://www.cc.gatech.edu/~echow/cx4803cml-23f.html>