ECE471, Selected Topics in Machine Learning – Syllabus, Fall 2019

tldr: We will introduce the concepts relevant to so called "deep learning" — our fundamental processes are based on computations performed over differentiable graphs, where nodes correspond to operations and edges correspond to operands.

Instructor Chris Curro, EE '15, MEE '16; chris@curro.cc

Reference Textbook Ian Goodfellow and Yoshua Bengio and Aaron Courville. 2016. *Deep Learning.* MIT Press. http://www.deeplearningbook.org

Assignments There will be a handful of programming assignments — I recommend using Python and Tensorflow for these — each will be due either 1 or 2 weeks after the assigned date. There will be 2 larger projects: a midterm and final.

Quizzes There will be quizzes most weeks. These quizzes will test understanding of assigned research papers. Expect 1-3 papers on most weeks. If you must miss a quiz, please let me know before hand and we will arrange appropriate accommodations, otherwise you receive a zero for that quiz.

Grading Grading breakdown in table at bottom of page. If you fail to submit an assignment you will fail the course. Unexcused late assignments will have a single letter grade deducted per 2 days late. The maximum grade for any tardy assignment is a B.

Attendance We will not take attendance, but it may factor into your participation score. Participation score is multifaceted. We will discuss this during the first class.

Office hours We will arrive at an appropriate schedule during the first class. Expect 1 or 2 hours per week. Additional hours by appointment.

Google group Expect communication via this Google group. Be sure to select to receive all emails when you sign up.
groups.google.com/a/curro.cc/d/forum/curro-cgml-2019

Grading	
Assignments	30%
Projects	30%
Quizzes	30%
Participation	10%