

Machine Learning Concentration

Minor or Concentration:

Due to various reasons, in the previous meeting it was felt that a concentration for our already enrolled students would be better than a minor. A minor might have cause further pressure on our 400 level enrollments. Accordingly ECE is establishing a separate minor in ML, while CS will offer a “concentration”

Students will have taken the following courses entering

- MATH141 Calculus II (4)
- CMSC250 Discrete Structures (3)
- MATH240 Introduction to Linear Algebra (4)

Concentration Requirements

21 Credits

Required Courses and their pre-requisites (with a minimum grade of C):

- CMSC320:
 - CMSC216 & CMSC250
- CMSC351 Algorithms (3)
 - CMSC216 & CMSC250
- CMSC422 Machine Learning (3)
 - CMSC320, CMSC351 & CMSC330
- CMSC421 Introduction to AI (3)
 - CMSC351 & CMSC330

Electives (2 out of the following list):

- CMSC426 Computer Vision (3)
 - CMSC351 & CMSC330
- CMSC498U (to become CMSC 454) Algorithms for Data Science (3)
 - (none published)
- CMSC460 Computational Methods (3)
 - MATH240 and 241; and CMSC106 or CMSC131
- CMSC474 Introduction to Computational Game Theory (3)
 - CMSC351 & CMSC330
- CMSC/ENEE course on Robotics (3) (new course, Dinesh Manocha)
- CMSC 470 (Intro to NLP)
 - CMSC320, CMSC330, and CMSC351; and 1 course from (MATH240, MATH461).