Joint CS and ECE minor in Machine learning

**Minor Requirements**

**Main:**

- ENEE 324 Engineering Probability (3) or CMSC 320 (3)
- ENEE 351 Algorithms and Data Structures (4) or CMSC 351 Algorithms (3)
- ENEE439M Introduction to Machine Learning (3) or CMSC 422 (3) Machine Learning
- ENEE434 (3) Introduction to Neural Networks and Signals or CMSC 421 (3) Introduction to AI

**Electives (2 out of the following list): these courses are available for CS and ECE students.**

- ENEE 469O Introduction to Optimization (3)
- CMSC 421, an elective for ECE students
- CMSC 426 Computer Vision (3)
- CMSC/ENEE course on Robotics (3) (Dinesh Manocha can teach this)
- CMSC 498U Algorithms and Data Science
- CMSC 466 (Intr to Numerical Analysis)
- Advanced Machine Learning (New course, ENEE)
- Will be good to have a course on NLP
- (ENEE408G Machine Learning Capstone) (Will revise Existing Multimedia Capstone course)
- ENEE 409I Robotics Capstone (Existing course)
- CMSC 499 Special topics in ML

**Total credits 18 or 19 for CS and ECE students respectively.**

**Just ECE version**

**Minor Requirements**

**Main:**

- ENEE 324 Engineering Probability (3) or equivalent
- ENEE 351 Algorithms and Data Structures (4)
- ENEE439M Introduction to Machine Learning (3)
- ENEE434 (3) Introduction to Neural Networks and Signals

**Electives (2 out of the following list):**

- ENEE 469O Introduction to Optimization (3)
- Computer Vision (3) New course in ECE (Rama and Min can teach this)
- Robotics (3) (Dinesh Manocha can teach this)
- Advanced Machine Learning (Rama and Behtash can teach this)
- (ENEE408G Machine Learning Capstone) (Will revise existing Multimedia Capstone course)
- ENEE 409I Robotics Capstone (Existing)

**Total credits 19.**