

Education Communication Meeting Minutes
Friday, April 24, 2020

The meeting was convened at 3:02 pm.

According to the by-laws, there must be a quorum for voting, which means at least half of the members who are not on sabbatical or leave of absence must be present. A discussion between Mount and Lin resulted in a bylaw change that will allow raised hands physically and digitally to count for votes. 34 people were needed to meet quorum. Quorum was met at 3:03 pm.

1. Machine Learning Specialization: Jacobs started the discussion on the approved ML specialization. Lin confirmed that the original specialization was approved, and students are required to take the foundation CS courses and the following required courses:

- CMSC320
- CMSC421
- CMSC422

Lin explained that there was a mistake on what courses can count for the first elective area of the ML specialization. CMSC474 was listed as an elective course in error, CMSC470 is the approved course. Additionally, future coursework in robotics, courses requiring linear algebra as a prerequisite, and certain grad courses on Artificial Intelligence can be used upon departmental grad course substitution approval. In the second elective area students can take 6 credits of elective credits from any upper-level CMSC course (except CMSC330 and CMSC351).

Mount moved to vote on the updates. This proposal will be effective immediately.

34 yes, 0 no, 0 abstained. Quorum was met and the proposal was approved.

2. New Course Proposal: Mount introduced Shivirvasta, Goldstein, and Tokekar's course proposals.

- Shivirvasta: Machine Deep Learning
 - Covers ML, neural network, and optimization basics. This will be a non-lecture based capstone course unlike CMSC498-.
 - Will be an Area 2 course but the course number may be higher.
 - Shivirvasta will teach the course whenever available.
 - The cloud machine used for this course will be Collab using Google Cloud credit.
- Goldstein: Capstone in Machine Learning
 - Covers how to complete and present research. Requires research and coding reviews, and midterm and final presentation with reports.
 - Requires a project proposal approved by a faculty mentor. The faculty mentors will not need a background in ML to advise.

- Goldstein wants companies to sponsor projects but will require student's work to be open source to prevent conflicts of interest.
- 20-30 students in teams of 2-5 will meet twice a week to receive feedback on their projects and coding work. The class size is experimental, and Goldstein will need to test scale. No more than 50 students maximum.
- Goldstein will reach out to a software engineering course instructor to see what skills/requirements student teams should have, and will be open to adding lessons in team management to the course.
- Will require the permission of the instructor and students must have a background in ML/AI.
- Will be an Area 3 course, and will be similar to CMSC490.
- Tokekar: Planning and Perception in Computer Science.
 - Course connects planning to perception in CS, 3D map planning and object recognition visual SLAM.
 - The prerequisite for the course will be MATH240, and computer vision concepts will be covered in class.
 - Projects will be 60% grade and programming homework.
 - Python, C++, Robotic operating system ROS experience required
 - Earlier versions of this class used mobile platforms for proof of concept.

Mount moved to vote on the course proposals.

34 yes, 0 no, 0 abstained. Quorum was met and the course proposals were approved.

The meeting ended at 4:10 PM.