

ECE Curriculum Committee Meeting

Monday, Nov. 3rd, 2025

Attending: Arabshahi, Burden, Bushnell, Chen, Choi, Dela Cruz, Eley, Hauck, Huberman, Kirschen, Lim, Mishra, Moritz, Perez, Reyes, Rudell, Sallows, Shlizerman, Swanson, Thomas

Absent: Majumdar

Agenda:

1. Updated Course Proposal for EE 4XX: Tiny Machine Learning for Ultra Low-Power Edge Computing (TinyML)
2. Update Course Description for EE 458/533: Power Electronics Controls
3. 449 MCD approval – Sam

Updated Course Proposal for EE 4XX: Tiny Machine Learning for Ultra Low-Power Edge Computing (TinyML)

Arabshahi brought to the committee the updated MCD from last meeting to review the requested changes to the prerequisites. The prerequisites were updated by removing Math 308: and adding EE 242: Signals, Systems, and Data I, while keeping the course EE 344: Data-Driven Modeling and Machine Learning as recommended.

- Updated MCD – [Link](#)
- Arabshahi noted that there is a course number in mind, but the number will have to be pushed up the chain of communication to confirm its availability

Motion to approve EE 4XX

- Motion Approved

Update Course Description for EE 458/533: Power Electronics Controls

Professor Choi presented to the committee a proposed updated course description for EE 458/533 as the lab materials in the course are shifting from digital control design to analog control design. The course itself will maintain the same prerequisites, but with shifting from digital control to analog control, there was a review of the prerequisites to see if they align with this change.

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- Updated MCD - [Link](#)
- Rudell posed the question of adding EE 332: Devices and Circuits II as a prerequisite as this course touches on analog analysis relevant to the course
 - EE 331: Devices and Circuits I is anticipated to be undergoing a change, but topics will still review analog analysis
- Kirschen opposed the idea of including EE 332 as a listed prerequisite for EE 458/533 as this would create a long prerequisite chain that could make it difficult for students to enroll

Motion to approve Course Description change

- **Motion approved**

New Course Proposal EE 449: Robotics & Controls Capstone

Professor Burden brought to the committee a proposal for a new controls robotics capstone course that will be a one-quarter capstone following the prerequisite course EE 447: Control System Analysis I.

- Proposal Slides – [Link](#)
- Proposed MCD – [Link](#)
- The only noted prerequisite for EE 449 is EE 447
 - Hauck questioned the goals of EE 449 and wondered why EE 448 was not a listed prerequisite
 - Burden noted that EE 448 is taught to see the applications of EE 447 ideas while EE 449 does not need the experiences of the applications to conduct their project
 - Shlizerman questioned the relation of this capstone to ENGINE capstone courses
 - ENGINE capstone projects are project-based, but range in scope whereas EE 449 will be a more focused project
- Thomas pointed out that the mentioned prerequisite is EE 447, but in the MCD it also lists it as “concurrent”
 - Will be edited and listed as a true prerequisite only
- Anticipated to be a Spring Quarter course

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Motion to approve MCD with edits to the prerequisite listing as noted above

- **Motion approved**