# ECE Curriculum Committee Meeting
## Tuesday, May 6th, 2025

**Attending**: Arabshahi, Bushnell, Chen, Dela Cruz, Fazel, Hauck, Kaushansky, Kirschen, Lim, Moritz, Rudell, Shepard, Swanson, Van Fossen

**Absent:** Huberman, Majumdar, Reyes

**Agenda**:

- Review updated EE 448 course proposal
- Review updated EE 517 course proposal
- Annual review of the Bio and Neural Engineering group
- Continue the discussion of Integrated Systems revision proposal

## Review Updated EE 448: Control System Lab Course Proposal

Professor Sam Burden updated the master course description (MCD) to reflect the feedback from our April 15th meeting and edited the meeting times previously listed for lab sections from two 4-hour sessions to two 3-hour sessions. The aim was to allocate enough time for students to complete projects while avoiding schedule constraints with other courses.

- **Motion to approve updated MCD with updated lab meeting times**
  - **Motion approved**

## Review Updated EE 517: Introduction to Large Language Models Course Proposal

Professor Banghua Zhu update the master course description (MCD) to reflect the feedback through an email review and edited the MCD in the following ways:

- Updates:
  - List prerequisites for course catalog entry and prerequisites by course
  - Update the course grading breakdown to define "In-class team exercises"
- **Motion to approve updated MCD with prerequisites and grading updates**
  - **Motion approved**

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## Annual review of the Bio and Neural Engineering group

Group chair Chet Moritz presented to the committee an overview of the current academic year for the Bio and Neural Engineering Group (BIO) and comparing it to the performance of last academic year to update the committee on trends/growths and goals that were achieved/needs improvement on. Data reviewed shows an overall upward trend in enrollment, balanced outcomes for ABET requirements and stable evaluations from students.

- BIO Slides - Link
- Enrollment is maintaining a stable trend
- ABET Outcomes meet requirements of at least ~75% or higher of students assessed are "Competent/Exemplary"
- Student Course Evaluations show a stable trend of hours per credit are match the standard of around 2.5-3.0
- Moritz pointed out that there are some missing end of course reports
  - Aut23 – EE 423 – Carthers
  - Aut24 – EE 423 – Seelig
  - Spr24 – EE 424 - Marchand
- Moritz identified that the problems BIO is running into are low Electrical and Computer Engineering student's enrollment in joint courses
  - Need to investigate ways to entice EE enrollment
- Van Fossen suggested to add Synth Bio courses to the enriching your path section of the pathways website to highlight courses and increase interest for students

## Continue the discussion of Integrated Systems revision proposal

Rudell lead the committee in a continued discussion for revising the Integrated Systems courses as the previous discussion raised many questions of required course vs recommended courses.

- EE 361: Applied Electromagnetics was removed from dependencies between 300 level classes for students in their projected junior year
- Major teaching topics were split between EE 233: Circuit Theory, EE 280: Exploring Devices and EE 332: Devices and Circuits II
- A major concern that was raised by the committee was there may be too much content for students to go through during their junior year

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- Van Fossen suggested creating an implementation timeline given the deadlines of course proposal changes and new prerequisites (if approved) in order to rollout to students with enough lead time.
  - Need to have a timeline that follows the intended flow of prerequisites to ensure students will cover necessary topics for the proposed Tapeout courses
- **Rudell will provide updated MCDs to the committee and will undergo further review**