ECE Curriculum Committee Meeting
Friday, May 8th, 2026

Attending: Arabshahi, Bushnell, Chen, Dela Cruz, Hauck, Kirschen, Mishra, Moritz, Mouradian, Perez, Rudell, Reyes, Sallows, Shlizerman, Smith, Swanson, Thomas, Van Fosen

Absent: Eley, Huberman

Agenda:

1. Annual Review of the Controls and Robotics Group
2. Annual review of the Bio and Neural Engineering group
3. Professional Master's Program Certificate Proposal

Annual Review of the Controls and Robotics Group

Group chair Professor Bushnell presented to the committee an overview of the current academic year for the System Controls and Robotics Group (SCR) 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 a steady trend in enrollment and stable evaluations from students. Although there are some lower evaluations from the ABET outcomes, if the multiple offerings are combined, the results are acceptable.

- SCR Slides - Link
- ABET Outcomes meet requirements of at least ~75% or higher of students assessed are "Competent/Exemplary" are not met by all assessments.
    - Outcome 1 is on the lower side, but when evaluating all results across the year, it balances out.
    - Bushnell informs the committee that they will be looking to increase engagement for students as the means to improve the ABET scores.
- Student Course Evaluations show a stable trend of results
    - Participation is high for majority of courses
    - Adjusted combined median ranges from 3.3 - 4.7
    - Challenge and Engagement Index (CEI) ranges from 4.5 - 5.5
    - Hours per credit ranges from 2.0 - 2.6
- Bushnell pointed out that there is only one missing EOC report this year
    - Aut25: EE 347 - Makhsous

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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 a healthy trend in enrollment with a large increase in some classes, an increase in results of outcomes for ABET requirements, and stable evaluations from students.

- BIO Slides - Link
- Enrollment is maintaining a stable trend while showing an increase in enrollment in the following course:
    - EE 460/560: Neural Engineering
    - EE 461: Neural Engineering Tech Studio
- ABET Outcomes meet requirements of at least ~75% or higher of students assessed are "Competent/Exemplary" and show an improvement when comparing to last year
- Student Course Evaluations show a stable trend of results
    - Participation is high for majority of courses
    - Adjusted combined median ranges from 4.2 - 4.8
    - Challenge and Engagement Index (CEI) ranges from 3.8 - 5.2
    - Hours per credit ranges from 1.8 - 2.4
- Moritz pointed out that there are some missing end of course reports
    - Aut25 – EE 423/523
    - Spr25 – EE 424/524
- Moritz informed the committee that there are no major issues this academic year

Professional Master's Program Certificate Proposal

Professor Smith and Professor Shlizerman presented a proposal for a new Graduate Certificate in Applied Deep Learning, explaining that it is fee-based and stackable, allowing students to combine it with other certificates to earn their master's degree.

- Presentation Slides - Link

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- The certificate consists of two core courses (Foundations of Applied Deep Learning and Advanced Methods in Applied Deep Learning), an elective, and a culminating experience involving a substantial applied deep learning project.
- Professor Smith noted that the program would differ from other AI and machine learning certificates on campus by focusing on broader applications beyond computer vision and NLP, including signals, speech, and time series analysis.

Motion to approve adding this certificate program

- **Motion approved**