

ECE Curriculum Committee Meeting

Tuesday, April 22nd, 2025

Attending: Arabshahi, Bushnell, Chen, Dela Cruz, Fazel, Hauck, Huberman, Kaushansky, Kirschen, Overly, Reyes, Rudell, Shepard, Swanson, Van Fossen

Absent: Majumdar, Moritz

Agenda:

1. Annual Review of the Controls and Robotics Group
2. Update on EE 448: Control Systems Laboratory new course 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 an overall upward trend in enrollment, balanced outcomes for ABET requirements and stable evaluations from students.

- SCR Slides - [Link](#)
- Enrollment for EE 447: Control System Analysis I has doubled from last year's offering
- 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
- Bushnell pointed out that there are some missing end of course reports
 - Aut24 – EE 447 – Ingraham – returned for amendment
 - Aut24 – EE 399 – Makhous – not done
 - Spr25 – EE 447 – Hannaford – TBD
- Bushnell identified some issues/suggestions from the end of course reports
 - EE 399: Add more content about ROS, Simscape. Cut some robotic analysis concepts.
 - EE 447: Integrate more active learning; MCD needs to list prerequisite courses
- Hauck questioned the relevancy of the prompt questions asked of the Curriculum chairs at the end of their reports.

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- Overly noted that these are questions asked by the Curriculum Heads (Curriculum Manager, ABET Coordinator and Faculty ACE Coordinator) and that current prompt questions were aimed at addressing course enrollment and how courses can be advertised.
 - Teaching assistant question was prompted because we needed to know what courses needed teaching assistant support
- **Arabshahi will review the current prompt questions for the Annual Curriculum Group Reviews and revise the questions to fit relevant Curriculum needs as needed for the remaining Curriculum Group Chairs reviews.**

Update on EE 448: Control Systems Laboratory new course proposal

Arabshahi provided an update on the proposal for Professor Sam Burden's EE 448 new course proposal that we are looking for a suitable location for this course to be taught and how it raised the question of storage solutions for lab projects in the new Interdisciplinary Engineering Building (IEB).

- ECE is sharing a lab space with Civil Engineering in the IEB, room 322, and if this space is used for labs that require projects, how will these be stored?
- Kirschen noted that there were no discussions of having a locker space with the shared lab but can work with the IEB to see if lockers can be brought into the lab to use as secure storage solutions.
- **Arabshahi will look into adding lockers into the IEB 322 lab space.**