

ECE Undergraduate Electives Committee Meeting

Friday, October 18th, 2024

Attending: Arabshahi, Dela Cruz, Gadre, Hwang, Hameed, Overly, Shepard, Swanson, Thomas

Minutes of October 4th, 2024: Approved

Agenda:

1. Proposal for New Course: Electronic-Photonic Integrated Systems ([MCD](#), [Justification](#))
2. Proposal to add prerequisites to EE 452/532: Power Electronics Design ([MCD](#), [Justification](#))
3. Discussion: Impacts of adding EE 233 to the list of required BSECE Core courses

Proposal for New Course: Electronic-Photonic Integrated Systems

Committee reviewed proposal and discussed concerns:

- How would grading work for this course?
 - IEEE grading format not needed
- Can BSMS students decide which pathway to use this course as?
 - It would depend on how the student registers; if the student registers as a graduate student, they are graded as a graduate student and if they register as an undergraduate student they are graded as such
- The prerequisite chain may not prepare the students for this course
 - There are two different prerequisite paths for this course, and it is unclear if one of these paths could prepare the student adequately or if they need knowledge from both
- Overly asked the question if this course material seems appropriate for undergraduate students?
 - Committee suggested this course review the knowledge students need to know before taking this class
- **Overly will reach out to Prof. Moazeni to invite them to next Committee Meeting to answer questions**
- ***Committee tabled proposal for further discussion***

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Proposal to add prerequisites to EE 452/532: Power Electronics Design

Committee reviewed proposal and discussed concerns:

- Add EE 331 and EE 351 as prerequisites
- Students might not have the bandwidth to take all the classes in this sequence
 - Transfer students might not have the time because EE 233 can be taken later to prioritize core courses
- Committee suggest the prerequisites for this course could be EE 351 and either 233 & 208, OR EE 331
- **Overly will reach out to Prof. Choi with questions with working changes to EE 280 and see if this changes any prerequisite needs and relay back next meeting**
- ***Committee will review proposal further***

Discussion: Impacts of adding EE 233 to list of required BSECE Core Courses

The committee members were in agreement about the usefulness of 233 becoming part of the core, and was seen as preferable, but concerns were raised about impact on desired flexibility for students, and impact on transfer students' ability to graduate on time

- 233 covers topics that are needed for ECE upper-level courses
- This course exposes students to more possibilities of what they would like to pursue with the ECE degree
- Adding this course to core could influence the flexible intent of the ECE degree
 - As more core classes are required, more general elective classes are being eaten away
- Adding 233 to core courses would change how 233 is taught
 - New EE 233 would need to not overlap topics with other core courses
- ***Topic will be brought up with Core Committee and will report back***