

# ECE Curriculum Committee Meeting

## Wednesday, June 1st, 2022

**Attending:** Arabshahi, Chen, Elberier, Kirschen, Moritz, Overly, Riskin, Swanson, Sykes, Vardhan, Wilson

**Minutes from meeting of May 25th, 2022: Approved**

### **Agenda:**

1. Consent Agenda
  - a. Proposal to add MATH 208 as pre-enrollment course option requirement for the BSECE degree program
  - b. Proposal to include ENGR 321 as allowed Advanced ECE Elective for the BSECE degree requirements
  - c. Proposal to create separate ECE curriculum committee for the graduate programs
  - d. Title change proposal for changes to course titles for EE 242 and EE 342 (**via email post-meeting**)
2. Annual ABET Review of the Advanced Photonics and Electronic Devices Concentration (Wilson)
3. Presentation of Writing Studio Alternative for Advanced Technical Writing Requirement (Wilson/Elberier)

### **Consent Agenda**

1. [Proposal](#) to add MATH 208 as pre-enrollment course option requirement for the BSECE degree program – **Approved**
2. [Proposal](#) to include ENGR 321 as allowed Advanced ECE Elective for the BSECE degree requirements - **Approved**
3. [Proposal](#) to create separate ECE curriculum committee for the graduate programs – **Approved – with Addenda**
4. [Proposal](#) to change course titles for EE 242 and EE 342 – **Approved**

### **Annual ABET Review of the Advanced Photonics and Electronic Devices Concentration (Wilson)**

([See Slides](#))

Wilson presented the annual ABET review for the Advanced Photonics and Electronic Devices concentration. See slides for main review.

- After a pilot of splitting the photonics course EE 485 into 2 courses, with the second course running as a special topics course, the new series has been made permanent and re-numbered to EE 487/587 and EE 488/588.
- Of the Devices courses (482, 484, and 486), E E 486 has seen struggling enrollment, and might need review by the ECE Curriculum Committee to consider the future of the course.
- EE 331 continues to have strong enrollment, though students still express discontent over the content. The addition of EE 280 may allow some of the physics content to be removed from 331 and allow for a deeper learning of the other material.

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- Issues:
  - The courses are quite dense with content. Students' math foundation seems to get in the way of their being able to absorb the content.
  - Teaching evaluations tend to be strong for the 4xx courses in the concentration with the exception of 486, which continues to see low enrollment and poorer course evaluations.
  - There is an increase in need for AEPD students in industry, particularly in relation for augmented and virtual reality.

### **Presentation of Writing Studio Alternative for Advanced Technical Writing Requirement (Wilson/Elberier)**

[\(See Slides\)](#)

After raising the concept of a "Writing Studio" alternative for writing credit within the department, Wilson, with Elberier, met to work on possible models for the concept and presented possible models to the committee for review and discussion.

- The "Writing Studio" offering would be offered as a concurrent course with another course in which the student is enrolled.
  - Students would work with the studio instructor/TA to revise a course paper/project, but in greater depth than would otherwise be required in the original course.
- 2 Models presented:
  - Model 1: Student led
    - Student would write a proposal that would require approval from the instructor of a 3xx or 4xx course as well as the approval of the instructor of the writing student
    - Instructor of original class would have a limit on the number of students allowed to take part in the writing studio credits for the course.
  - Model 2: Course Project Option
    - Instructors of some courses would have a specific paper or project for which they would approve additional writing studio participation.
- [See slides for proposal details](#)
- Suggestion is to pilot the program in the 2022-2023 academic year, then propose a permanent course.

**Committee concurred the concept would be worthwhile to pursue. Further discussion of structure details to be raised at later date.**