

New Curriculum or Curricular Change EFD Template



College of Engineering

Engineering Faculty Document

No.: 150-25

April 21, 2025

TO: The Engineering Faculty

FROM: The Faculty of the Elmore Family School of Electrical and Computer Engineering

RE: New Engineering Multiple Degree Program

The Faculty of the Elmore Family School of Electrical and Computer Engineering has approved the following new multiple degree program from the College of Engineering. This action is now submitted to the Engineering Faculty with a recommendation for approval.

TITLE:

Combined BS/MS in Software Engineering

DESCRIPTION:

The Elmore Family School of Electrical and Computer Engineering recently launched a new degree: the MS in Software Engineering (MSSWE). We would like to create a combined degree program for the MSSWE for students in the Purdue BSEE and BSCompE programs.

Degrees involved:

- Master of Science in Software Engineering (SWE-MSSWE, SWE-MSSWE-OL)
- Bachelor of Science in Computer Engineering (COMPENGR-BSE)
- Bachelor of Science in Electrical Engineering (ECE-BSE)

Program Guidelines

Following [BSEE](#) or [BSCompE](#) degree requirements, [MSSWE graduate degree requirements](#), and policies of the Office of the Vice Provost for Graduate Students and Postdoctoral Scholars, the program will allow undergraduates admitted to the program to take up to 12 credit hours of graduate-level coursework that can be dual counted toward both the undergraduate degree and the MSSWE.

To ensure incoming students have the needed prior knowledge, students must take ECE 36800, Data Structures, while an undergraduate.

Eligibility requirements: Students can apply to the MSSWE 4+1 program once they have completed ECE 20002 and if they have a cumulative GPA of 3.5 or higher.

Students must complete the BSEE or BSECE with a cumulative GPA of 3.4 or higher.

RATIONALE:

Our existing combined degree program (MSECE/BSEE and BSECE), available since Spring 2021, is very popular with our students (see Figure 1). Virtually all students admitted to the MSECE combined degree program complete the MSECE. Similarly, we anticipate that a combined degree program for the MSSWE will also be popular.

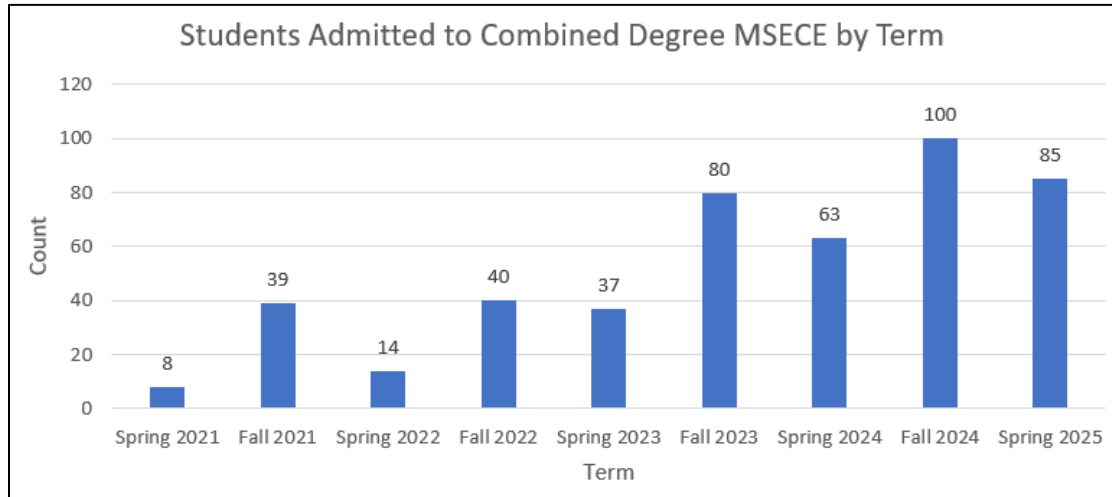


Figure 1: Students admitted to MSECE combined degree program since the program's start in Spring 2021.

Head/Director of the Elmore Family School of Electrical and Computer Engineering

Link to Curriculog entry:

<https://purdue.curriculog.com/proposal:32289/form>