

Graduate Program Learning Outcomes for Electrical and Computer Engineering

Updated: January 23, 2023

GSLG #1: Understand, interpret, shape, and augment the knowledge base.

- **PLO #1:** Demonstrate facility with methods of advanced engineering analysis and design.
- **PLO #2:** Solve complex electrical and computer engineering problems by using advanced engineering analysis and design methods.
- ***Satisfied by:*** Many courses in our graduate seminar talks, thesis or dissertation. Representative student work could be seminar representations, theses or dissertations.

GSLG #2: Share disciplinary expertise openly, effectively, and accurately.

- **PLO #3:** Create professional-quality reports, engineering design projects, and/or presentations with significant technical content that address complex electrical and computer engineering systems.
- ***Satisfied by:*** Classes with a design project that includes a report and/or presentation; thesis or dissertation. Representative student work would be seminar representations, theses, or dissertations.

GSLG #3: Demonstrate responsible and ethical practice.

- **PLO #4:** Students will design hardware devices and systems, as well as software code, using engineering methodologies such as safety, reliability, compliance, efficiency, and privacy/security.
- ***Satisfied by:*** Classes with significant design content incorporating safety, reliability, compliance, efficiency, and privacy/security into coursework, research, and thesis. Representative student work could be seminar representations, theses, or dissertations. RCR Training.

Table 1: Mapping of PLOs to the ECE core graduate courses

Course	PLO #1	PLO #2	PLO #3	PLO #4
ECE 598 Seminar	X	X	X	X
ECE 699 Research	X	X	X	X