

Proficiency Requirements for Non-ECE Degrees

Name _____ UNID _____ Date _____

Previous Degree Received _____ School _____ Year _____
 (BS, MS, etc.)

Before an Electrical and Computer Engineering graduate degree is awarded, a student must demonstrate that they meet the program's proficiency requirements through either of the following ways:

1. Complete a proficiency course with a B grade or higher
 - Include your transcript with this form if an applicable course was taken at another university.
 - If you wish to fulfill this requirement by taking a graduate-level University of Utah course, contact the [Graduate Student Coordinator](#) to find resources to help you properly prepare.

2. Pass the exams for a University of Utah undergraduate (*) proficiency course with a B or higher
 - Please make arrangements through the [Graduate Student Coordinator](#); do not contact faculty.

Proficiency Requirements

Circuits - Electronics - Semi-Conductors

Semester / Year	Grade	Complete 1 of the following courses
		<input type="checkbox"/> ECE 2280* – Circuits and Systems: Active
		<input type="checkbox"/> ECE 3200 – Introduction to Semiconductor Device Physics
		<input type="checkbox"/> ECE 5201 – Physics of Nano-Electronics and Related Devices
		<input type="checkbox"/> ECE 5780 or ECE 6780 – Embedded System Design
		<input type="checkbox"/> CS/ECE 6810 – Computer Architecture (For CE Track only)

Electromagnetic Fields - Systems - Power

Semester / Year	Grade	Complete 1 of the following courses
		<input type="checkbox"/> ECE 3300* – Fundamentals of Electromagnetics
		<input type="checkbox"/> ECE 3500* – Fundamentals of Signals and Systems
		<input type="checkbox"/> ECE 3600* – Introduction to Electric Power Engineering
		<input type="checkbox"/> ECE 3610* – Fundamentals of Robotics and Cyberphysical Systems
		<input type="checkbox"/> ECE 5320 or ECE 6322 – Microwave Engineering I
		<input type="checkbox"/> ECE 5321 or ECE 6323 – Microwave Engineering II
		<input type="checkbox"/> ECE 5324 – Antenna Theory and Design
		<input type="checkbox"/> ECE 5410 – Optics I
		<input type="checkbox"/> ECE 5412 – Optics II
		<input type="checkbox"/> ECE 5510 – Random Processes
		<input type="checkbox"/> ECE 5520 – Digital Communication Systems
		<input type="checkbox"/> ECE 5530 or ECE 6530 – Digital Signal Processing
		<input type="checkbox"/> ECE 5615 or ECE 6615 – Classical Control Systems
		<input type="checkbox"/> ECE 5620 – Power Systems Analysis
		<input type="checkbox"/> ECE 5652 or ECE 6652 – Linear Systems and State-Space Control
		<input type="checkbox"/> ECE 6310 – Advanced Electromagnetic Fields

Notes