

Program Outcomes for BS Electrical Engineering

The electrical engineering curriculum is designed to yield the following outcomes which are in consistent with the ABET Accreditation requirements for program outcomes. Each upper division course within the curriculum contributes to at least one of these outcomes.

#	Engineering Program Outcomes	Courses	
		Required courses	Electives
1.	Recognize, interpret, and apply concepts of mathematics, science, and engineering.	EEE 3308, 3396*, 4308L EGM 4313*, EGN 3203, EEL 3111 3117L,, 3112*, 3135, 3211, 3472, 3701,3701L, 4514, 4657, 4744*, 4744L, 4834, STA 4321, EGM 2500, 3401	EEL 4663, EEL 3473, 4759, 4712, 4712L, 4713, 4990 (Patt Rec),
2.	Design and conduct experiments, as well as evaluate and interpret data.	EEE 4308L*, 4306L, EEL 3117L*, 3701L, 4514L, 4657L, 4744L	EEL 4712L, EEL 4663
3.	Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.	EGN 4410*, 4411L*	EEL 4930
4.	Identify and apply the skills necessary to function on multidisciplinary teams.	EGN 4410*, EGN 4411L*, EEL 4657L, 3117L, EEE 4308L	EEL 4930, 4940, 4949, EEE 4310
5.	Identify, formulate, and solve engineering problems.	EGN 4410*, 4411L*, EEE 3308, 4306, EEL 3111, 3112, 3135, 3211, 3701, 4657, 4744, 4834,	EEL 3473, 4242, 4759, 4930, 4990(Patt Rec)
6.	Recognize professional and ethical responsibility.	EGN 4032*, EGN 4411L	
7.	Identify and apply the skills necessary to communicate effectively.	EEL 3117L, 3701L, 4744L, 4514L,4657L, EEE 3308, 4308L*, 4306L, EGN 4032, 4410, 4411L*	EEL 4712L, 4713, 4905, 4940, 4949, EEE 4310
8.	Recognize the impact of engineering solutions in a global, economic, environmental, and societal context.	EGN 4410*, 4411L, 4032	
9.	Recognize the need for, and able to engage in, life-long learning.	EGN 4032, 4410*, 4411L*	EEL 4242, 4905, 4990 (Ren energy)
10	Recognize and describe contemporary issues.	EGN 4032*, 4410, EEL3701, 3211, General Studies courses,	EEL 4242, 4905, 4990 (Ren Energy),
11	Identify and apply the techniques, skills, and modern engineering tools necessary for engineering practice.	EEE 4308L*, 4306L, EEL3117L, 4744L, 3701L, 4657L, 4514L, EGN 3203, EIN 4354	EEL 4712L, 4242

* Course used for data collection