

Program Outcomes for BS Computer Engineering

The computer 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, 3112*, 3135, 3701,3701L, 4712, 4712L, 4713, 4744*, 4744L, 4834, STA 4321, COP 3530, 4534, 4634, 4635	EEL 4663, EEL 3211, 3472, 3473, 4514, 4657, 4759, 4990 (Patt Rec), EGM 2500, 3401, COP 2253
2.	Design and conduct experiments, as well as evaluate and interpret data.	EEE 4308L*, EEL 3117L*, 3701L, 4712L, 4744L, COP 3530, 4534, 4634, 4635	EEL 4514L, 4657L, 4663, EEE 4306L
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*, COP 4634, 4635	EEL 4930
4.	Identify and apply the skills necessary to function on multidisciplinary teams.	EGN 4410*, EGN 4411L*, EEL 3117L, EEE 4308L	EEL 4930, 4940, 4949, 4657L, EEE 4310
5.	Identify, formulate, and solve engineering problems.	EGN 4410*, 4411L*, EEE 3308, 4306, EEL 3111, 3112, 3135, 3701, 4744, 4834, COP 4534	EEL 3211, 3473, 4242, 4657, 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, EEE 3308, 4308L*, 4712L, 4713 EGN 4032, 4410, 4411L*	EEE 4306L, EEL 4514L, 4657L, 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, 4990 (Ren energy)
10.	Recognize and describe contemporary issues.	EGN 4032*, 4410, EEL3701, 3211, COP 4634, 4635, General Studies courses,	EEL 4242, 4990 (Ren Energy), EIN 4354
11.	Identify and apply the techniques, skills, and modern engineering tools necessary for engineering practice.	EEE 4308L*, EEL3117L, 4744L, 3701L, EGN 3203, EEL 4712L	4242, 4657L, 4514L, EEE 4306L

* Course used for data collection