



H-Form ECE 203

A Brief Course Description			
College	Engineering		
Department/ Program	Electrical Engineering – Electronics +Communications +Renewable Energy		
Course Name	Introduction to Engineering Design		
Course Code	ECE 203		
Year / Level	3/6		
Credit Hours	2		
Contact Hours	Lecture: 1	Lab/Tutorial: 2	Training: 0
Language	English		
Track	<input type="checkbox"/> University <input checked="" type="checkbox"/> College <input type="checkbox"/> Department <input type="checkbox"/> Program		
	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective		
Pre-requisites Course	MATH 103		
Co-Requests	-		
Course Description	<p>This course is a sophomore level design course that introduces the basic elements of engineering design with emphasis on teamwork and communication skills. It exposes students to engineering profession, jobs and disciplines. Topics include problem-solving procedure: from problem definition, needs identification, literature review, concept generation, generation of alternatives, selection methodology to solution implementation, and assessment of implementation. Reverse engineering and engineering code of ethics with impact of engineering solutions on society is also discussed. This course gives practice in open-ended problems, critical and lateral thinking, planning and scheduling through design project plus organization of the work and design documentation. It enables students to consider safety, legal, environmental and human factors, and other societal constraints in execution of their design projects.</p>		