



ENGINEERING DESIGN COURSE ENROLLMENT FORM

## **Specifications for the Design Course:**

Engineering design is the process of devising a system, component, or process to meet desired needs. It is a decision-making process (often iterative), in which the basic sciences and mathematics and engineering sciences are applied to convert resources optimally to meet a stated objective. Among the fundamental elements of the design process are the establishment of objectives and criteria, synthesis, analysis, construction, testing, and evaluation. The engineering design component must include most of the following features: development of student creativity, use of open-ended problems, development and use of modern design theory and methodology, formulation of design problem statements and specifications, consideration of alternative solutions, feasibility considerations, production processes, concurrent engineering design, and detailed system descriptions. Further, it is essential to include a variety of realistic constraints, such as economic factors, safety, reliability, aesthetics, ethics, and social impact.

(Students must complete the project and submit a final report.)

I. TO BE COMPLETED BY STUDENT:				
			□ FA □ WI □ SP	
Name (Last, First, Middle)	PID		Quarter	Year
College	☐ EE ☐ EP ☐CE ☐ EE&S	Soc		
II. TO BE COMPLETED BY STUDENT AND Prerequisite course work or knowledge for depth course(s) you are using as prerequi Proposed plan (please be specific and ma	or this project: (All the breadth site(s):		·	ndicate the
III. TO BE COMPLETED BY INSTRUCTOR:				
Name of Instructor (Please print):				
Teaching Title (Please print):				
Nature and Frequency of Contact:				
Signature of Student	Date	E-mail Address		
Signature of Instructor	Date			