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. (Electrical Engineering majors must submit a copy of their final report consisting of powerpoint presentations, codes, or final paper to the ECE Undergraduate Student Affairs Office at the end of the course.)

Name (Last, First, Middle) _____________________________  PID _____________________________  Quarter  __________  Year  __________

College ☐ WA  ☐ MU  ☐ MA  ☐ ERC  ☐ RE  ☐ SI  Name of Instructor _____________________________

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