

ME 4000	Senior Seminar	Seminars address the problems encountered by engineering graduates in professional practice. Invited lecturers as well as faculty provide the lectures and demonstrations. Preq or concurrent enrollment: ME 4010 with a C or better.
ME 4020	Internship in Engineering Design	Creative application of general engineering knowledge in solving an open-ended design problem provided by a sponsor typically external to the University. Progress is evaluated by a faculty jury. Students present results to the jury and sponsor through written reports and oral presentations addressing University written/oral competency goals. Students must have completed all required 3000-level ME courses before enrolling in this course. Preq: ME 4010 with a C or better. Coreq: ME 4021.
ME 4230	Introduction to Aerodynamics	Basic theories of aerodynamics are presented for the purpose of accurately predicting the aerodynamic forces and moments which act on a vehicle in flight. Preq: ME 3080 with a C or better.
ME 4300	Mechanics of Composite Materials	Develops fundamental relationships for predicting the mechanical and thermal response of multi-layered materials and structures. Develops micromechanical and macromechanical relationships for laminated materials emphasizing continuous filament composites. Discusses the unique nature of composites and the advantages of designing with composites. Preq: ME 2040 with a C or better.
ME 6230	Introduction to Aerodynamics	Basic theories of aerodynamics are presented for the purpose of accurately predicting the aerodynamic forces and moments which act on a vehicle in flight.
ME 6300	Mechanics of Composite Materials	Develops fundamental relationships for predicting the mechanical and thermal response of multi-layered materials and structures. Develops micromechanical and macromechanical relationships for laminated materials emphasizing continuous filament composites. Discusses the unique nature of composites and the advantages of designing with composites.
ME 8610	Materials Selection in Engineering Design	Advanced study of various physical, chemical and mechanical materials properties which govern the selection of materials in engineering design. Case studies of materials selection in design with metals, ceramics, polymers and composites are presented.