

# MFG - Manufacturing Systems Engineering

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## Manufacturing Systems Engineering: MFG

### Lower-Division Courses

### Upper-Division Courses

### Graduate Courses

#### **MFG 197, 397, 597, 697. Research Problems.**

Problem selected by the student with approval of the graduate adviser. For each semester hour of credit earned, the equivalent of one class hour a week for one semester. Prerequisite: Graduate standing in manufacturing systems engineering and consent of the graduate adviser.

#### **MFG 397K. Advanced Studies in Manufacturing Systems Engineering.**

Selection of topics based on needs of an adequate number of students. The equivalent of three class hours a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing in manufacturing systems engineering and consent of instructor.

**Topic 1: Advanced Packaging Materials.**

**Topic 2: Signal Integrity in High-Speed Digital Systems.**

**Topic 3: Thermal Management in Packaging.**

#### **MFG 397M. Graduate Research Internship.**

Research associated with enrollment in the Graduate Research Internship Program (GRIP). Prerequisite: Graduate standing and consent of instructor and the dean of the Cockrell School of Engineering.

#### **MFG 197S. Graduate Seminar in Technical Communication.**

The master's degree program in manufacturing systems engineering includes three semester hours in this course. Practice and application of technical communication skills in engineering. The equivalent of one lecture hour a week for one semester. May be repeated for credit when the topics vary. Prerequisite: Graduate standing and consent of the graduate adviser.

**Topic 1: Graduate Seminar in Technical Communication I.** Offered in the fall semester only.

**Topic 2: Graduate Seminar in Technical Communication II.**

**Topic 3: Individual Instruction in Technical Communication.**

Additional prerequisite: Credit or registration for Manufacturing Systems Engineering 197S (Topic 1) and 197S (Topic 2).

#### **MFG 698. Thesis.**

The equivalent of three lecture hours a week for two semesters. Offered on the credit/no credit basis only. Prerequisite: For 698A, graduate standing in manufacturing systems engineering and consent of the graduate adviser; for 698B, Manufacturing Systems Engineering 698A.

#### **MFG 398R. Master's Report.**

Preparation of a report to fulfill the requirement for the master's degree under the report option. The equivalent of three lecture hours a week for one semester. Offered on the credit/no credit basis only. Prerequisite: Graduate standing in manufacturing systems engineering and consent of the graduate adviser.

### Professional Courses