

ENGINEERING TECHNOLOGY (EGT)

EGT 520 Project and Process Management Credits: 3

Typically Offered: Fall.

Course Description: Examination of project management for the total development process, including inter-relationships between owners, developers, financing sources, designers, contractors, and users; methods of project delivery; introduction to planning and scheduling; role and tasks of the project manager, feasibility analyses; construction claims, financing and cash flow analysis; introduction to control of cost, time and technical performance; computer applications. Lean process and six-sigma process. Three hours lecture.

EGT 530 Current Advancements in Engineering Technology Credits: 3

Typically Offered: Fall.

Course Description: Study one or more of the most recent developments in Engineering Technology such as dynamics, thermodynamics, digital image processing, renewable energy, data acquisition and automation, computer applications in structural analysis, and communication networks. Three hours of lecture.

EGT 610 Advanced Engineering Technology Credits: 3

Typically Offered: Spring.

Course Description: In-depth study of specific fundamental engineering technology subjects such as statics, structure analysis, signal processing, heat transfer, and fluids mechanics. Emphasis will be placed on theory development and problem-solving methodologies and techniques in those subjects. Three hours lecture.

EGT 690 Engineering Technology Research Credits: 3

Typically Offered: Fall, Spring.

Course Description: Research and study of a specific subject in Engineering Technology under the supervision of a graduate advisor. A detailed report and an intra-departmental presentation will be required. Three credit hours and can be repeated.