ENGINEERING MANAGEMENT (EMGT)

Courses

**EMGT 090. Internship. 1-3 Credits.**
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

**EMGT 092. Independent Study. 1-18 Credits.**
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

**EMGT 095. Special Topics. 1-18 Credits.**
See Schedule of Course for specific titles.

**EMGT 170. SU:Engineering Economics. 3 Credits.**
Fundamental concepts and applied techniques in the economic aspects of engineering alternatives. Economic dimensions for sustainable practice, including basic financial decision making, methods to evaluate business and engineering assets, analysis of project cash flows, life cycle analysis, and replacement decisions. Prerequisites: MATH 022; minimum Junior standing.

**EMGT 185. Independent Study. 1-18 Credits.**
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion. Prerequisite: Senior standing in Engineering Management.

**EMGT 190. Internship. 1-18 Credits.**
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

**EMGT 195. Special Topics. 1-18 Credits.**
Specialized or experimental course offered as resources permit.

**EMGT 197. Teaching Assistantship. 1-3 Credits.**
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

**EMGT 198. Undergraduate Research. 1-18 Credits.**
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

**EMGT 201. Engineering Project Management. 3 Credits.**
Principles of project management on designing, building/manufacturing engineering facilities, processes, products and structures; metrics for managing quality, schedule, and financial performance of projects; services and product procurement; project financial management; legal and insurance aspects. Prerequisites: Minimum Senior standing in Engineering.

**EMGT 254. Optimization in Ops Research. 3 Credits.**
Students develop and refine their ability to build optimization models for a wide range of business and engineering decisions. Provides a sound conceptual understanding of mathematical optimization and learn techniques used for solving real-world problems. Emphasizes model formulation and the mathematics of commonly used algorithms. Prerequisites: MATH 121; MATH 122 or MATH 124.

**EMGT 285. Independent Study. 1-18 Credits.**
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

**EMGT 290. Internship. 1-18 Credits.**
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

**EMGT 295. Special Topics. 1-18 Credits.**
See Schedule of Course for specific titles.

**EMGT 297. Teaching Assistantship. 1-3 Credits.**
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

**EMGT 298. Undergraduate Research. 1-18 Credits.**
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.