Engineering Management M.S.
2016-2017

Engineering Management (EMGT) Core Requirements (21 hours)

The following 21 hours of core requirements must be completed for both thesis and capstone options.

- **EMGT 5130** New Business Development
- **EMGT 5231** Engineering Management Planning
- **EMGT 5330** Service and Operations Management
- **EMGT 5430** Professional Project Management
- **EMGT 5530** Technology Planning and Management
- **MGMT 5032** Human Behavior in Organizations
- **SENG 5230** Systems Engineering Economics

Note: EMGT 5530 is equivalent to MGMT 5032. Only one will be counted.

EMGT Elective Requirements

The master degree candidates with capstone and thesis options must complete twelve hours of electives and nine hours of elective requirements, respectively from the following:

- **EMGT 5131** Legal Issues in Engineering Management
- **EMGT 5230** Negotiation Strategies
- **EMGT 5331** Six-Sigma Quality
- **EMGT 5431** Contract Management
- **EMGT 5630** Quantitative Decision Making for Engineering Management
- **EMGT 5631** Supply Chain Management
- **EMGT 5730** Fundamentals of Enterprise Resource Planning Software
- **SENG 5130** Systems Engineering Processes
- **SENG 5332** Decision Analysis for Systems Engineering

The following courses may substitute for the aforementioned electives base upon permission of the faculty adviser before enrolling to satisfy specific degree requirement (e.g., 100% online option).

- **SWEN 5130** Requirements Engineering
- **MGMT 5133** Teamwork & Leadership Skills
- **MGMT 5638** Leading Technologies
EMGT Capstone Option (21 hours of core requirements + 12 hours of electives + 3 hours of Capstone)

The Capstone enrollment is limited to candidates who have completed 27 hours of the EMGT core and elective requirements after completion of their prerequisites. Under the capstone option, the master degree candidates must complete 21 hours of core requirements and 12 hours of elective requirements. Capstone course may be available online.

EMGT 6837 Engineering Management Capstone Project

EMGT Thesis Option (21 hours of core requirements + 9 hours of electives + 6 hours of thesis)

Master degree candidates must complete 21 hours of core requirements and 9 hours of elective requirements. The thesis is counted as 6 hours.

EMGT 6939 Master's Thesis Research