Computer Engineering M.S.
2016-2017

Computer Engineering Core Requirements (15 hours)
The following courses or their approved substitutions are required for both the thesis and the extended course work options.
CENG 5131 Engineering Applications
CENG 5133 Computer Architecture Design
CENG 6332 High Performance Computer Architecture

Students will select two more core courses from the following four:
CENG 5334 Fault Tolerant Computing
CENG 5434 Microcomputer Systems Design
CENG 5531 Machine Learning and Applications
CENG 5534 Advanced Digital System Design

Computer Engineering Elective Requirements (12 hours thesis option, 15 hours non-thesis)
The following courses or their approved substitutions are required for both the thesis and the extended course work options.
6 hours of CENG courses 5100-6000 level
3 hours of CENG/CSCI/SWEN courses 5100-6000 level
CENG/CSCI/SWEN 4000-6000 level: 3 hours thesis option, 6 hours non-thesis

Computer Engineering Thesis Option (6 hours)
CENG 6939 Master's Thesis Research

Extended Course Work Option (6 hours)
CENG 6838 Research Project and Seminar
CENG 6838 Research Project and Seminar
Or
CENG elective 5000-6000 level
CENG 6838: To be taken after completion of core courses and during last 12 hours.

Computer Engineering Specializations
Digital Signal Processing (DSP) Specialization
Students interested in a Digital Signal Processing Specialization should take the following as electives:
CENG 5431 Digital Signal Processing
CENG 5433 Principles of Digital Communications Systems
CENG 6431 DSP Implementations

Telecommunications Specialization
Students interested in a Telecommunications Specialization should take the following as electives:
CENG 5333 Network Performance Analysis
CENG 5431 Digital Signal Processing
CENG 5433 Principles of Digital Communications Systems