

**Master of Engineering**

**Program of Study**

**College of Engineering & Applied Science**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ M#: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**E-Mail Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Track: Embedded Systems\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Academic Advisor: \_\_Carla Purdy\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Expected graduation term: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**The Embedded Systems track requires 30 graduate, semester credit hours, distributed in two 15 credit hour semesters. Courses selection must satisfy the requirements from the list below. Permission must be obtained for any deviation (Required or Elective courses) from the department Graduate Director on an approved CEAS Change Form. The Change Form is available in the EECS Graduate Office in 665 Baldwin.**

**Course # / Title Credits Grade Term/Year**\_

**Required Embedded Track Curriculum (Choose 4 of 5):**

EECE 6017C Embedded Systems \_\_4\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 6029 Intro to Operating Systems \_\_3\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 6038C Advanced Microsystem Design \_\_4\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 7095 Intro to Computer Architecture \_\_3\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CS 7092 Sensor Embedded Systems \_\_3\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Track Elective Courses (Choose 2 from the following):**

CS 6027 Requirements Engineering \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CS 6097 Intro to Wireless & Mobile Networking \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

CS 7092 Sensor Embedded Systems \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 6007 Biomedical Microsystems \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 6015C Instrumentation & Industrial Control \_\_4\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 6032 Software Testing & QA \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 6080C VLSI Design \_\_4\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 7017C Trustworthy Embedded Systems \_\_4\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 7019 Bio-Inspired Robotics \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 7075 Principles of Modern Networking \_\_3\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 8115C, Humans, Machines, Robots \_\_3\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Modified 8/6/17

MECH 6031 Intro to Robotics \_\_3\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Two Required MEng Core Courses**

**In addition to track coursework, the Master of Engineering program requires two Core Courses (4-8 credits) 6 credits of Capstone Project distributed between the fall and spring semesters.**

***Project / Task Management Development (Chose one)***

AEEM 6067 Entrepreneurship and Tech Law \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

AEEM 6099 System Engineering & Analysis \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ENGR 6014 Engineering Project Management \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ENGR 7025 Product & Process QC \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MECH 6074 Quality Control \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OM 7011 Management of Operations \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Interpersonal Skill Development (Chose one)***

ENGR 6003 Org Behavior for Technical Prof \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ENGR 6010 Effectiveness in Tech Organizations \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ENGR 6012 Innov and Design Thinking \_\_3\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ENGR 6050 Fundamentals of Leadership \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

MGMT 7014 Leadership & Organization \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OLHR 6050 Teams \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OLHR 8029 Individual Behavior in the Workplace \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OLHR 8084 The Diverse Workforce \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

OLHR 8090 Strategic Leadership \_\_3\_\_\_ \_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***EECS Capstone (Indicate credits taken in each semester) Credits Grade***

EECE 9060 EECS MEng Capstone (Fall Term) \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECE 9060 EECS MEng Capstone (Spring Term) \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Fall Credit Hours \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Spring Credit Hours \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EECS Graduate Director