

## Master Syllabus

### EET 2278 - Electronics Project Capstone

**Division:** Science, Mathematics and Engineering

**Department:** Electronics Engineering Technology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 2.0 **Lab Hrs:** 4.0

**Prerequisite(s):** EET 2201 AND EET 2261

**Date Revised:** December 2012

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### Course Description:

Review of electronic circuits, analog and digital electronics, microcontrollers, design and layout of printed circuit board, fabricate-assemble-test-troubleshoot working prototype, write report. Two classroom, four lab hours per week.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Information Literacy Competency
- Oral Communication Competency
- Written Communication Competency
- Computer Literacy Competency

### Course Outcomes:

#### Electronic theory and relationships

Apply knowledge of electronics components to solve problems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher

**Assessment Method:** Performance appraisals

**Performance Criteria:** Score "17.5" or higher on five by five rubric

#### Assembly, testing and troubleshooting techniques

Apply assembly, testing and troubleshooting techniques to working prototypes.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher

**Assessment Method:** Performance appraisals

**Performance Criteria:** Score "17.5" or higher on five by five rubric

#### Technical communication

Communicate in a technical environment.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher

### Outline:

Review of electrical circuits  
Review of digital electronics  
Review of microcontrollers  
Design, fabrication, test of electronics project  
Presentation and demonstration of working prototype  
Preparation and submission of written report