

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

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