

## Master Syllabus

### EET 1116 - Electronics Schematics & Fabrication

**Division:** Science, Mathematics and Engineering

**Department:** Electronics Engineering Technology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 3.0

**Date Revised:** October 2013

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#### Course Description:

Draw circuits using Multisim. Compose directories using Windows commands. Identify schematic symbols and components. Produce a technical document with text, graphs and schematics. Assembly of circuits. Three classroom, three lab hours per week.

#### General Education Outcomes:

- ▣ Written Communication Competency
- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency
- ▣ Computer Literacy Competency
- ▣ Information Literacy Competency

#### Course Outcomes:

##### Electronic Drawings

Create electronic drawings using software.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or better

**Assessment Method:** Performance appraisals  
**Performance Criteria:** 70% or better

##### Component and Symbol Identification

Identify electronic components and symbols.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or better

##### Windows Navigation

Use Windows software tools for file preservation and information storage.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or better

##### Technical Documents

Create a technical document with imported schematics, graphs, and text.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or better

##### Assembly

Apply assembly concepts and skills to build or repair circuits.

**Assessment Method:** Locally developed exams  
**Performance Criteria:** 70% or better

#### Outline:

Use Multisim to draw and edit schematic drawings  
Use MS Word, Excel, and Multisim to create a report  
Properly scale a drawing  
Introduction to LabVIEW  
Identify nodes in a circuit  
Assembly principles and standards  
Elements of printed circuit boards  
Identify components and schematic symbols