

## Master Syllabus

### EET 2259 - Programming for Electronics Technology

**Division:** Science, Mathematics and Engineering

**Department:** Electronics Engineering Technology

**Credit Hour Total:** 4.0

**Lecture Hrs:** 3.0 **Lab Hrs:** 2.0

**Prerequisite(s):** EET 2201 AND EET 1131

**Date Revised:** October 2012

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#### Course Description:

Computer solutions of engineering technology problems using LabVIEW. Covers the LabVIEW programming environment and virtual instruments, datatypes, debugging, sub-virtual instruments, programming structures, arrays, graphical presentation and analysis, file input/output, instrument control, data acquisition, and applications to electronic circuits. Three classroom, two lab hours per week.

#### General Education Outcomes:

- ▣ Critical Thinking/Problem Solving Competency

#### Course Outcomes:

##### Programming skills

Apply graphical programming skills using LabVIEW for problem solving and critical thinking.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Correctly answer at least 70% of exam questions

##### Interfacing and control

Apply programming skills to interface with and control electronic systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Correctly answer at least 70% of exam questions

##### Automated circuit analysis

Use LabVIEW to analyze circuits and electronic systems.

**Assessment Method:** Locally developed exams

**Performance Criteria:** Correctly answer at least 70% of exam questions

#### Outline:

LabVIEW Virtual Instruments (VIs)  
Editing & debugging techniques  
Datatypes  
Sub-VIs  
Structures  
Arrays & Clusters  
Charts & graphs  
File I/O  
Data acquisition  
Data analysis  
Instrument control  
Applications to electronic circuits