### MEASURABLE OUTCOMES

<table>
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<tr>
<th>Outcome 1</th>
<th>RESULTS &amp; ANALYSIS</th>
<th>DISSEMINATION (INDIVIDUALS RECEIVING RESULTS)</th>
<th>PLAN FOR USE OF DATA TO IMPROVE PROGRAM, UNIT OR OFFICE SERVICES</th>
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</table>
| Students will: Demonstrate a working knowledge of digital and analog electronic circuits. Identify passive components, construct, and test various DC/AC and digital circuits. | The student must satisfactorily complete the following courses:  
- ET 106B  
- ET 131B  
- ET 212B | Department Chair, School Dean, and ET Program Faculty receive this report. | Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner. |
| **Outcome 2**  
Students will, demonstrate a positive work ethics and interpersonal skills in a group environment. | Student assists in the completion of group projects and receives satisfactory participation grade from peers, based on a | Department Chair, School Dean, and ET Program Faculty receive this report. | Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner. However the reporting of |
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<th>Outcome 3</th>
<th>A final grade score of C by 75% of the students in MATH 111B that complete the courses is satisfactory.</th>
<th>Department Chair, School Dean, and ET Program Faculty receive this report.</th>
<th>Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner.</th>
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<td>Students will: Perform algebra and trigonometry operations for resolving vectors, exponents, logarithms, and complex numbers while solving electronics problems.</td>
<td>Examinations will be evaluated to determine accurate measurement of outcomes.</td>
<td>The data for this outcome should be improved.</td>
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| Outcome 4a | General electronics students will: | The student must satisfactorily complete the following courses:  
- ET 220B  
- ET 228B  
A final grade score of C by 80% of the students that complete the course is satisfactory. | Department Chair, School Dean, and ET Program Faculty receive this report. | Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner. |
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<td>Identify active analog components used to design, construct, and test various small-signal amplifier and communication circuits.</td>
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<td>76% of the students got a grade of C or higher.</td>
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| Outcome 4b | General electronics and slot repair students will: | Students must satisfactorily complete the laboratory experiments for:  
- ET 104B  
A final grade score of C by 75% of the students that complete the courses is satisfactory. | Department Chair, School Dean, and ET Program Faculty receive this report. | Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner. |
| Demonstrate a working knowledge in the use of common hand tools, and proper fabrication techniques associated with the construction of digital and analog based circuits. | | | |
| | 100% of the students got a grade of C or higher. | | |
### Outcome 4c
**Telecommunications and Slot Repair students will:**

- Perform LAN and voice network cabling installation and configuration of attached PCs

#### Assessments

- A final grade score of C by 75% of the students that complete each course is satisfactory:
  - CSCO 105B
  - CSCO 109B

In any course that uses attendance and/or participation as part of the final grade, the final exam grade will be substituted for the course grade in the assessment.

Examinations will be evaluated by the individual instructor to determine accurate measurement of outcomes.

- 87% of the students got a grade of C or higher.

#### Evaluation

Examinations will be evaluated by the individual instructor to determine accurate measurement of outcomes.

### Outcome 4d
**Telecom students will explain the signaling specifications of the telephone set, subscriber loop interface and central office commonly employed in the Public Switched Telephone Network (PSTN) along with the basic IP networking use with**

#### Assessments

- A final grade score of C by 75% of the students that complete the following courses is satisfactory:
  - CSCO 120
  - ET 276B

In any course that uses attendance and/or participation as part of the final grade, the final exam grade will be substituted for the course grade in the assessment.

#### Evaluation

Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner.
## Voice over IP (VoIP) Assessment

Examinations will be evaluated by the individual instructor to determine accurate measurement of outcomes.

66% of the students got a grade of C or higher.

## Outcome 4e

### Slot Repair

**Goal:** Students will: Demonstrate a working knowledge of a typical electronic slot machine’s operation; a working knowledge of Pseudo Random Number Generators; microprocessors and microcontrollers; a working knowledge of stepper motors, CRTs and LCDs. Design a slot machine on paper in ET2388.

### Analysis

A final grade score of C by 75% of the students that complete each course is satisfactory.
- ET 138B
- ET 238B

In any course that uses attendance and/or participation as part of the final grade, the final exam grade will be substituted for the course grade in the assessment.

Examinations will be evaluated by the individual instructor to determine accurate measurement of outcomes.

95% of the students got a grade of C or higher.

### Assessment

Department Chair, School Dean, and ET Program Faculty receive this report.

Analysis of the results suggests that our ongoing course and program improvement efforts should continue in the same manner.