

## ELEC2246 - Advanced Electronics

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|--------------------|---|
| Credits:           | 2 (1/1/0)   |
| Description:       | This course provides theory, operation and practical applications of various field-effect transistors, thyristors, photosensitive devices, sensing devices and wave chopping circuitry.   |
| Prerequisites:     | • ELEC2211  |
| Corequisites:      |   |
| Pre/Corequisites*: |   |
| Competencies:      | <ol style="list-style-type: none"><li>1. Demonstrate safe work practices.</li><li>2. Describe variety of sensors and instruments.</li><li>3. Demonstrate proper use of sensors and instruments.</li><li>4. Describe open/closed loop control.</li><li>5. Describe proportional-integral-derivative (PID) control.</li><li>6. Use calculations to properly calibrate instruments.</li><li>7. Demonstrate ability to calibrate instruments.</li></ol> |
| MnTC goal areas:   | None  |

\*Can be taking as a Prerequisite or Corequisite.