

Las Positas College
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Course Outline for ENGR x56

ELECTRONIC POWER SYSTEMS

I. CATALOG DESCRIPTION:

ENGR x56 — ELECTRONIC POWER SYSTEMS — 3.00 units

Switching power supply systems. Alternative energy systems. Advanced power bus management and control systems. Power supply transformer, rectifier and filtering circuits. Measurement of line and load regulation, ripple, and efficiency in linear and switching power supply systems. Linear regulation techniques and troubleshooting.

2.00 Units Lecture 1.00 Units Lab

Grading Methods:

Discipline:

	<u>MIN</u>
Lecture Hours:	36.00
Expected Outside of Class Hours:	72.00
Lab Hours:	54.00
Total Hours:	162.00

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT:

III. PREREQUISITE AND/OR ADVISORY SKILLS:

IV. MEASURABLE OBJECTIVES:

Upon completion of this course, the student should be able to:

V. CONTENT:

VI. METHODS OF INSTRUCTION:

VII. TYPICAL ASSIGNMENTS:

VIII. EVALUATION:

Methods/Frequency

IX. TYPICAL TEXTS:

X. OTHER MATERIALS REQUIRED OF STUDENTS: