

Las Positas College
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Course Outline for ENGR x57

ROBOTIC SYSTEMS

I. CATALOG DESCRIPTION:

ENGR x57 — ROBOTIC SYSTEMS — 3.00 units

Integration of sensors, indicators, controllers and final control elements for Programmable Logic Control and robotic systems. Control loop theory, PID, loop tuning, and control loop troubleshooting Process control system design and tuning

2.00 Units Lecture 1.00 Units Lab

Grading Methods:

Discipline:

	MIN
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: