

CALIFORNIA STATE UNIVERSITY, NORTHRIDGE
DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING
SPRING 2014
COURSE SYLLABUS
ECE 101/L – INTRODUCTION TO ENGINEERING

Instructor

Ben Mallard

Office: JD3335

Office Hours: Mondays and Tuesdays, 2pm – 4pm; Wednesdays and Thursdays, 2pm – 3pm

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ECE101 Moodle Site

Textbook, Tools, and Materials

Studying Engineering: A Road Map to a Rewarding Career; Raymond B. Landis; 4th Edition, Discovery Press, 2013

Student Journal/Portfolio

Class Assignments and Activities

Group Discussions

Internet Searches

Computer Simulations

Class Participation

Term Paper

Individual and Group Projects

Attendance

Attendance is mandatory and will be taken each class meeting.

Late Assignments

No late assignments will be accepted.

Grading

Classwork, 10% (Laboratory)

Student Journal/Portfolio, 10% (Lecture)

Final Projects, 40% (Laboratory)

Midterm Exams, 20% (Lecture)

Term Paper, 20% (Lecture)

<u>Class Date</u>	<u>Lecture Topics</u>	<u>Activities</u>
01/22	Introduction to ECE	Name Game
01/27	Keys to Success in Engineering	Group Discussion
01/29	Models for Viewing Your Education	Group Discussion
02/03	History of Engineering	Engineering Biographies
02/05	The Engineering Profession	Engineering Group Project
02/10	Standards and Codes	Engineering Organizations
02/12	Engineering Education	Education Forecast
02/17	Learning Processes	Learning Assessment
02/19	Engineering Ethics	Case Studies
02/24	Reading and Problem Solving	HW, Quizzes, & Exams
02/26	Writing Technical Papers	Lab Reports & Proposals
03/03	Midterm Examination 1	
03/05	Term Paper Assignments	Topics and References
03/10	Library Visit	
03/12	Numbers in Engineering	MATLAB
03/17	Electricity and Magnetism	Charge, Current, and Voltage
03/19	Electric Circuit Components	Ohm's and Kirchoff's Laws
03/24	Circuit Diagrams and Properties	PSPICE
03/26	Electronic Devices	Diodes and Transistors

03/31	Cesar Chavez Holiday - No Class	
04/02	Electronic Circuits	Amplifiers
04/07	Spring Break – No Class	
04/09	Spring Break – No Class	
04/14	Electronic Logic	Logic Gates
04/16	Power and Energy	Solar Cells and Batteries
04/21	Midterm Examination 2	
04/23	Electronic Communications	Transmitters and Receivers
04/28	Electronic Applications	Biomedical Systems
04/30	Electric Filters	LPF, HPF, BPF
05/05	Individual and Group Project Review	Project Development
05/07	Individual and Group Project Review	Project Development