

ECHT 22 SLO #1 Upon successful completion of this course, students will be able to identify and safely operate/manipulate various types of electronic hand tools and test equipment

ECHT 22 SLO #2 Upon successful completion of this course, students will be able to incorporate data and analysis reporting protocols, using either “paper” and “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations

ECHT 22 SLO #3 Upon successful completion of this course, students will be able to produce a functional Low Voltage, (DC), direct Current Power Supply project sample, that meets predetermined specifications, which could be potentially “mass” produced

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ECHT 22, Basic Electronic Fabrication

Week	Lecture Topics and Assigned Labs	Assignment
1-2	Orientation , Safety, Basic Schematic Symbols	
3-4	PCB Design, Reverse Engineering, and Basic Soldering Techniques	Assign 1
5-6	Circuit Board Fabrication Techniques, Etching, and Chemical use	Assign 2
7-8	Basic Mechanical Package Design,(Orthographic, Isometrics, and Pictorials)	Assign 3
9-10	Basic Sheet metal Fab (Chassis Construction and Modifications Protocols in Developing a “Planner’s Guide	
10-14	Student Build of Final Project	
15-16	Submission of Final Project and Documentation Package	Evaluation of Deliverables

Evaluation Process:	Chassis Fab	20 pts	A= 270 - 243
	Wiring Techniques	20 pts	
	Soldering Techniques	20 pts	B= 242- 216
	Documentation	40 pts	
	Attendance	20 pts	C = 215- 189
	Accuracy of Documentation	10 pts	
	Final Exam	135 pts	D = 188- 162
			F= 161 -0

Disability Statement Students with disabilities are an integral part of the El Camino Community. Our goal is to provide accommodations necessary to assist students in achieving their educational goals