

**ELEC 98 Course Outline as of Fall 2019****CATALOG INFORMATION**

Dept and Nbr: ELEC 98 Title: INDEPENDENT STUDY

Full Title: Independent Study in Electronic Technology

Last Reviewed: 5/8/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	0	17.5	Lecture Scheduled	0
Minimum	1.00	Lab Scheduled	0	4	Lab Scheduled	0
		Contact DHR	1.00		Contact DHR	17.50
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	8.00		Non-contact DHR	140.00

Total Out of Class Hours: 0.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

Independent study on a chosen area of electronic or mechatronic technology through independent study and research.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:**

Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.

**Schedule of Classes Information:**

Description: Independent study on a chosen area of electronic or mechatronic technology through independent study and research. (Grade Only)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment: Approval of the project proposal by sponsoring faculty, Department Chair and Supervising Administrator.

Transfer Credit: CSU;  
Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective:	Fall 1981
		Inactive:	
<b>UC Transfer:</b>		Effective:	
		Inactive:	

**CID:**

**Certificate/Major Applicable:**  
Not Certificate/Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Expand their knowledge base in a chosen area of Electronic or Mechatronic Technology through independent study and research.

### **Objectives:**

During this course, the student will:

1. Perform research on a topic of their choice in the field of Electronic or Mechatronic Technology.
2. Present the results of their research in written, visual, and/or oral form.

### **Topics and Scope:**

Varies with the student based on the their special interests and abilities.

### **Assignment:**

As agreed upon in the student's proposal for the study.

### **Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Specified in student's proposal.
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Writing 5 - 100%
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**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Specified in student's proposal.

Problem solving  
0 - 95%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Specified in student's proposal.

Skill Demonstrations  
0 - 95%

**Exams:** All forms of formal testing, other than skill performance exams.

Specified in student's proposal.

Exams  
0 - 95%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Specified in student's proposal.

Other Category  
0 - 95%

### **Representative Textbooks and Materials:**

Instructor prepared materials