PHYS 49 Course Outline as of Fall 2022

CATALOG INFORMATION

Dept and Nbr: PHYS 49 Title: INDEPENDENT STUDY Full Title: Independent Study in Physics Last Reviewed: 2/28/2022

Units		Course Hours per Week	Ν	br of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	0	17.5	Lecture Scheduled	0
Minimum	1.00	Lab Scheduled	0	3	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 research project in physics to provide for an enriched academic experience. UC determines credit after transfer; not counted for admission. (See a counselor for details.)

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 research project in physics to provide for an enriched academic experience. UC determines credit after transfer; not counted for admission. (See a counselor for details.) (Grade Only) Prerequisites/Corequisites: Recommended: Limits on Enrollment: Approval of the project proposal by sponsoring faculty, Department Chair

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree: CSU GE:	Area Transfer Area	I		Effective: Effective:	Inactive: Inactive:
IGETC:	Transfer Area	l		Effective:	Inactive:
CSU Transfer	:Transferable	Effective:	Spring 1983	Inactive:	
UC Transfer:	Transferable	Effective:	Spring 1983	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 upon their foundational knowledge and skills through independent research projects.

Objectives:

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

- Find relevant resources for investigating a physics research project.
 Present the results of a research project in written or oral form.
- 3. Achieve the objectives outlined in the special studies application.

Topics and Scope:

A physics topic or topics that build upon the Physics department's regular offerings. Content will vary depending on student interest and instructor availability. Typically, the course involves a project with a literature research phase, an experimentation phase, and a presentation phase.

Assignment:

Assignments will be outlined in the special studies application. Possible projects may include:

- 1. Presentation of a poster project
- 2. Submission of a research paper
- 3. Construction of a physics demo or experiment

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.

Research paper and/or poster

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Physics demonstration or experiment

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

None

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

None

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

None

Representative Textbooks and Materials:

Written resources will vary with project content.

10 - 100%
Problem solving 0 - 90%

Writing

Skill Demonstrations 0 - 0%

> Exams 0 - 0%

