

## ENGR50 : Engineering Internship

### General Information

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Course Code (CB01) :	ENGR50
Course Title (CB02) :	Engineering Internship
Department:	ENGR
Proposal Start:	Spring 2025
TOP Code (CB03) :	(0924.00) Engineering Technology, General (requires Trigonometry)
CIP Code:	(15.0000) Engineering Technologies/Technicians, General.
SAM Code (CB09) :	Clearly Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000502207
Curriculum Committee Approval Date:	05/22/2024
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/22/2024
Course Description and Course Note:	ENGR 50 is a discipline-specific course which allows students to earn from 1-3 units for structured, supervised work on-campus or off-campus in the field of engineering under the supervision of a faculty advisor. It is designed to provide students with hands-on, discipline-linked work experience that will extend their knowledge and understanding of career demands in engineering. Note: This course is Pass/No Pass only. Note: This course may be taken four times; a maximum of 12 units may be earned. Students must arrange an approved internship prior to enrolling in this class.
Justification:	Mandatory Revision
Academic Career:	<ul style="list-style-type: none"><li>Credit</li></ul>
Mode of Delivery:	
Author:	
Course Family:	

### Academic Senate Discipline

Primary Discipline:	<ul style="list-style-type: none"><li>Engineering</li></ul>
Alternate Discipline:	<ul style="list-style-type: none"><li>Engineering Technology</li></ul>
Alternate Discipline:	<ul style="list-style-type: none"><li>Engineering Support (Surveying, engineering aides)</li></ul>

## Course Development

### Basic Skill Status (CB08)

Course is not a basic skills course.

Allow Students to Gain Credit by Exam/Challenge

### Course Special Class Status (CB13)

Course is not a special class.

### Pre-Collegiate Level (CB21)

Not applicable.

### Grading Basis

- Pass / No-Pass Only

### Course Support Course Status (CB26)

Course is not a support course

## General Education and C-ID

### General Education Status (CB25)

Not Applicable

### Transferability

Transferable to CSU only

### Transferability Status

Approved

## Units and Hours

### Summary

**Minimum Credit Units (CB07)** 1

**Maximum Credit Units (CB06)** 3

**Total Course In-Class (Contact) Hours** 54 - 162

**Total Course Out-of-Class Hours** 0 - 0

**Total Student Learning Hours** 54 - 162

### Credit / Non-Credit Options

#### Course Type (CB04)

Credit - Degree Applicable

#### Noncredit Course Category (CB22)

Credit Course.

#### Noncredit Special Characteristics

No Value

#### Course Classification Code (CB11)

Credit Course.

Variable Credit Course

#### Funding Agency Category (CB23)

Not Applicable.

Cooperative Work Experience

Education Status (CB10)

### Weekly Student Hours

	In Class	Out of Class
Lecture Hours	0	0
Laboratory Hours	3 - 9	0
Studio Hours	0	0

### Course Student Hours

<b>Course Duration (Weeks)</b>	18
<b>Hours per unit divisor</b>	54
<b>Course In-Class (Contact) Hours</b>	
Lecture	0
Laboratory	54 - 162
Studio	0

**Total** 54 - 162

**Course Out-of-Class Hours**

Lecture	0
Laboratory	0
Studio	0
<b>Total</b>	<b>0</b>

**Time Commitment Notes for Students**

No value

**Units and Hours - Weekly Specialty Hours**

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

**Pre-requisites, Co-requisites, Anti-requisites and Advisories**

**Advisory**

ESL141 - Grammar And Writing IV

Objectives

- Compose a 400 to 450-word thesis-based essay which: (a) summarizes and cites appropriately a reading passage provided as a prompt, (b) includes a clear thesis statement, (c) uses evidence to support the thesis, (d) shows clear organization into an introduction, body, and conclusion, and (e) uses appropriate rhetorical modes such as comparison/contrast, cause/effect, and persuasion in order to support a thesis.

OR

**Advisory**

ENGL101 - Introduction to College Reading and Composition

Objectives

- Read, analyze, and evaluate a variety of primarily non-fiction readings for content, context, and rhetorical merit with consideration of tone, audience, and purpose.

**Entry Standards**

Entry Standards

**Course Limitations**

Cross Listed or Equivalent Course



Demonstrate an understanding of the professional and educational minimum qualifications for employment and advancement within the target career/discipline.

Demonstrate effective professional practices and soft skills of a specific career/discipline.

Demonstrate basic occupational competencies (knowledge, skills and abilities) required for employment in the target career/discipline.

Analyze personal performance of specific skills related to the target career/discipline.

Compose a resume.

## SLOs

**Practice basic occupational competencies required for employment in the target career/discipline.**

Expected Outcome Performance: 70.0

<i>ENGR</i> Civil Engineering	Apply knowledge of mathematics, science and engineering; identify, form and solve engineering problems
	Demonstrate introductory skills using modern engineering tools necessary for engineering practice.
<i>ILOs</i> Core ILOs	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
	Practice ethical and responsible behavior within personal, academic, professional, social, and societal contexts; recognize and welcome diverse lifestyle choices that promote physical, intellectual, psychological, and social well-being.
<i>ENGR</i> Engineering Technology - CAD & Design Drafting	Demonstrate skills in the production of working drawings of engineering structures
	Demonstrate techniques to accomplish drawings and 3D models utilizing different various computer aided design (CAD) software
	Discuss how the design process and design/drawing techniques are used with other engineering processes to create a finished product.
<i>ENGR</i> Engineering Entrepreneurship Skill Award	Learn hands-on skills and problem solving techniques for businesses related to engineering design, installation, manufacturing, testing, technical sales, maintenance, and other such topics in engineering technology.
	Learn how the business skills of starting-up or managing their business in the engineering field.
	Learn the engineering design process and how technical products are made, assembled, and integrated into complex systems.
<i>ENGR</i> Electrical Engineering A.S. Degree Major	analyze engineering problems and make appropriate decisions with the supervision of a licensed engineer;
	demonstrate appropriate technical written, verbal, drawing, and communication skills;
	design a system, component, or process with supervision of a licensed engineer to meet desired needs.
	use science and mathematical skills required for occupational needs;
	work effectively on a team and exercise initiative and function in a leadership role;

ENGR  
Computer Engineering AS

analyze engineering problems and make appropriate decisions with the supervision of a licensed engineer;

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demonstrate appropriate technical written, verbal, drawing, and communication skills;

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design a system, component, or process with supervision of a licensed engineer to meet desired needs.

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use science and mathematical skills required for occupational needs;

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work effectively on a team and exercise initiative and function in a leadership role;

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ENGR  
Mechanical Engineering - A.S.  
Degree Major

analyze engineering problems and make appropriate decisions with the supervision of a licensed engineer;

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demonstrate appropriate technical written, verbal, drawing, and communication skills;

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design a system, component, or process with supervision of a licensed engineering to meet desired needs.

---

use science and mathematical skills required for occupational needs;

---

work effectively on a team and exercise initiative and function in a leadership role;

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## Course Content

### Lecture Content

No value

### Laboratory/Studio Content

#### Internship (54 - 162 hours)

- On-the job shadowing of current employees
- Information gathering of current industry trends

**Total Hours: 54-162**

## Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

### GCC Major Requirements

No Value

### GCC General Education Graduation Requirements

No Value

### Repeatability

Not Repeatable

### Justification (if repeatable was chosen above)

No Value

## Resources

Did you contact your departmental library liaison?

No

If yes, who is your departmental library liaison?

No Value

Did you contact the DEIA liaison?

No

Were there any DEIA changes made to this outline?

No Value

If yes, in what areas were these changes made:

No Value

Will any additional resources be needed for this course? (Click all that apply)

No Value

If additional resources are needed, add a brief description and cost in the box provided.

No Value