



Mechanical Engineering 100 - Graphics 1  
Course Syllabus – Fall 2023  
August 21st, 2023

**MECH 100, Graphics I, Section 01, FA 2023**

<b>Instructor:</b>	Mr. Tristen Svendsen
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<b>Office hours:</b>	See Canvas for OHs OHs also available outside OCNL 416
<b>Class days and times:</b>	Online
<b>Classroom:</b>	ONLINE
<b>Co-requisites:</b>	MECH 100L
<b>MECH 100L Information</b>	
<b>Lab Instructor:</b>	Mr. Tristen Svendsen, MECH 100L Section 04 Mr. Matthew Mione, MECH 100L Sections 02,03,05
<b>Lab days and times:</b>	MECH 100L-04: Thur 2 - 4:50 PM O'Connell 438 MECH 100L-02: Mon 5:30-8:20 PM O'Connell 438 MECH 100L-03: Tues 5:30-8:20 PM O'Connell 438 MECH 100L-05: Thur 5:30-8:20 PM O'Connell 438

## Course Description and Goals

Introduction to engineering graphics, including the following; orthographic projection, auxiliary views, isometric views, dimensioning, tolerancing, drawing standards, working standards, and solids modeling.

Hand sketching activities paired with quizzes that replicate the *Purdue Spatial Visualization Test – Rotations or PSVT-R*, will be deployed to enhance or help develop visualization skills.

## Student Learning Objectives

Students will gain understanding of mechanical design and mechanical drawing standards and processes for the mechanical, mechatronic, and manufacturing industries. Upon satisfactory completion of this course, students will understand basic graphical principles and apply these principles with precision, adhering to associated engineering standards.

## Course Content Learning Outcomes

Upon successful completion of this course, students will demonstrate:

- A. The principles of mechanical component design.
- B. The principles of solids modeling.
- C. The drawing standards for the department.
- D. The use of dimensioning, tolerancing, and GD&T in drawings.
- E. The principles and connection of design to sustainable engineering and manufacturing

## Required Texts/Readings

Lecture: <b>Required</b>	Lieu, D.K., and Sorby, S.A., <i>Visualization, Modeling, and Graphics for Engineering Design</i> , Cengage Publishers, 2016. ISBN: 978-1-2851-7295-8.
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## Communication

If you need to meet or contact me outside of class hours please attend office hours or email. Please use my contact information listed on the first page to communicate, and do not go through Canvas. For laboratory-based concerns, it is also suggested that you seek out your laboratory instructor for assistance.

In the event that I need to contact the class members for matters between class meetings (schedule, assignment, or class changes, etc.), it will be done via your university email account linked to the Portal. University policy requires students to monitor campus email accounts and it is suggested that you set up email forwarding if you have another preferred email account.

## Dropping and Adding

You are responsible for understanding the policies and procedures about add/drops, academic renewal, etc. found <http://www.csuchico.edu/catalog/>. You should be aware of the new deadlines and penalties for adding and dropping classes.

## Assignments and Grading Policy

Assignments are due according to the class schedule and are subject to change depending on course progress through the semester. Changes to the schedule will be announced during class or via the communication protocol described above.

Homework assignments are due by a set date and time, all of which are on the Assignment submission or the page prior to starting a Test/Quiz/PSVT-R. The assignments assigned in Week 1 will be due at the end (Friday 11:59 PM) of the 2nd week of class. Starting Week 2 all assignments will be due on Mondays by 11:59 PM.

Homework assignments are to be done by hand and will be submitted on Canvas by either scanning your work with a scanner or your phone or taking a CLEAR picture of your work. Refer to the “Homework Requirements” document for formatting. Work is considered late if it is not submitted before its due date and time. Late work will only be considered for credit if you connect with me and outline the reason for the delay.

Assigned readings are to be completed before that week’s lecture. Online lectures will be used to review topics covered within the reading and expand on the topics through real-world applied examples. To ensure that students are conducting their assigned readings, there will be quizzes posted on BBL that will test their knowledge of the presented material.

Quizzes and PSVT:R exercises will remain open after the week they are assigned and due. They can be retaken for study purposes. The first attempt is the grade that is recorded. Late quizzes and PSVT:R will not be accepted. They should be taken on a computer to ensure that the images within the quizzes and PSVT:R will show correctly. Taking them on a mobile device can result in them not working correctly.

### Course Grade Breakdown:

Homework /Participation	25%
PSVT:R Exercises	10%
On-line Quizzes	15%
Midterm Exam	25%
Final Exam	<u>25%</u>
	100%

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
	93.33	90.00	86.67	83.33	80.00	76.67	73.33	70.00	65.00	60.00	0.00

**MECH 100 and MECH 100L are two (2) separate classes. They are graded separately and the work, scores, and final grades for each course do not affect the other.**

## COVID-19 Protocols

**Reminder:** The CSU strongly encourages students to be fully vaccinated and boosted against COVID-19 while enrolled at the university. Anyone experiencing symptoms of COVID-19 should self-isolate and get tested. Please do not “push through” and show up to class if you may be ill. Email me and/or your lab instructor to notify me(us) of your absence and illness, so that we can work out required make up work.

Policies and requirements regarding COVID-19 are subject to change pursuant to campus, local, state and/or federal guidelines. For more information about, please visit the [Chico State COVID-19 News & Information](#) page.

## University Policies and Campus Resources

### Academic integrity

Students are expected to be familiar with the University's Academic Integrity Policy. Your own commitment to learning, as evidenced by your enrollment at California State University, Chico, and the University's Academic Integrity Policy requires you to be honest in all your academic coursework. Faculty members are required to report all infractions to the Office of Student Judicial Affairs. The policy on academic integrity and other resources related to student conduct can be found at: <http://www.csuchico.edu/sjd/integrity.shtml>.

### Artificial Intelligence

AI writing tools are not permitted for any stage or phase of work in this class. If you use these tools, your actions will be considered academically dishonest, and a violation of [Chico State's Integrity Policy](#) and you may be reported to the [Office of Students Rights and Responsibilities](#).

### Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodation because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Students with disabilities requesting accommodation must register with the DSS Office (Disability Support Services) to establish a record of their disability.

Special accommodation for exams require ample notice to the testing office and must be submitted to the instructor well in advance of the exam date.

### IT Support Services

Computer labs for student use are located on the first and fourth floor of the Meriam Library, Room 116 and 450, Tehama Hall Room 131, and the Bell Memorial Union (BMU) basement. You can get help using your computer from IT Support Services; contact them through their website, <http://www.csuchico.edu/itss>. Additional labs may be available to students in your department or college.

### Student Services

Student services are designed to assist students in the development of their full academic potential and to motivate them to become self-directed learners. Students can find support for services such as skills assessment, individual or group tutorials, subject advising, learning assistance, summer academic preparation, and basic skills development. Student services information can be found at: <http://www.csuchico.edu/current-students>.

### Americans with Disabilities Act

If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Please also contact Accessibility Resource Center (ARC) as they are the designated department responsible for approving and coordinating reasonable accommodations and services for students with disabilities. ARC will help you understand your rights and responsibilities under the Americans with Disabilities Act and provide you further assistance with requesting and arranging accommodations.

#### Accessibility Resource Center

<http://www.csuchico.edu/arc>

530-898-5959

Student Services Center 170

[arcdept@csuchico.edu](mailto:arcdept@csuchico.edu)

## **Student Learning Center**

The mission of the Student Learning Center (SLC) is to provide services that will assist CSU, Chico students to become independent learners. The SLC prepares and supports students in their college coursework by offering a variety of programs and resources to meet student needs. The SLC facilitates the academic transition and retention of students from high schools and community colleges by providing study strategy information, content subject tutoring, and supplemental instruction. The SLC is online at <http://www.csuchico.edu/slc>. The University Writing Center has been combined with the Student Learning Center.