INSTRUCTOR: Matthew Mione  
Campus Office: O’Connell 414  
Campus Phone: 530-898-5374  
mionem@csuchico.edu  
Office Hours: W 11:00 AM – 1:00 PM, R 2:00 – 4:00 PM  
Additionally, by appointment in person or on Zoom.  
*Subject to change

CLASS Online – No Meeting Location

CO-REQUISITES: MECH 100L Laboratory (Note: a separate course)  
MECH 100L Information (Online)  
M. Ankeney  
MECH 100L-02 M 5:30-8:20 PM  
MECH 100L-03 M 5:30-8:20 PM  
MECH 100L-04 M 2:00-4:50 PM  
MECH 100L-05 M 5:30-8:20 PM

Course Description and Goals
Graphics 1 is the first course in Engineering Graphics which includes the fancy stuff, computer aided drafting or computer aided design (CAD), but also the old school method of hand sketching.

Sketching techniques is covered in lecture and exercised in the homework. The CAD software is SolidWorks, the bulk of which is covered in MECH 100L. The generic issues of CAD are covered in MECH 100 and include visualization, design intent, construction and assembly methods, and design communication.

A necessary skill is visualization, the mental task of converting 2-D representation to 3-D and vice-versa. The PSVTR (Purdue Spatial Visualization Test—Rotation), a useful tool to enhance this skill, is frequently used in a modified form.

Course Content Learning Outcomes – Student learning objectives

<table>
<thead>
<tr>
<th>Student Learning Outcome</th>
<th>Description</th>
<th>Course Objective</th>
<th>Methods of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Knowledge</td>
<td>Students will demonstrate knowledge and concepts related to:</td>
<td>• ... Enhanced sketching and visualization skills though the PSVT:R - Purdue Spatial Visualization Test: Rotations tests.</td>
<td>• Weekly timed quizzes</td>
</tr>
<tr>
<td>Student Learning Outcome (Cont.)</td>
<td>Description (Cont.)</td>
<td>Course Objective (Cont.)</td>
<td>Methods of Assessment (Cont.)</td>
</tr>
</tbody>
</table>
Content Knowledge

Students will demonstrate knowledge and concepts related to:

- … Principles of mechanical component design.
- … The meaning of design intent.
- … Drawing standards.
- … The proper use of dimensioning and tolerancing.
- … The basic principles of GD&T.
- … The principles and connection of design to sustainable engineering and manufacturing.
- … The basic techniques of hand sketching.
- Periodic Quizzes related to the weekly Lectures and Readings.
- Midterm Test.
- Final Test.
- Homework assignment.
- Periodic Sketching Homework.

Course Usage of Blackboard Learn

Copies of the course syllabus and major assignments may be found on Blackboard Learn. You are responsible for regularly checking the online resources, which is accessed through the Chico State Portal at http://portal.csuchico.edu. Support materials for the course will be provided via the portal and it is expected that you will either have hardcopies or electronic access to the materials during in-class activities.

Required Texts/Readings


Communication

If you need to meet or contact me, please attend office hours or email. Please use my contact information listed on the first page to communicate, and do not go through the Blackboard channels. 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 (schedule, assignment, 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 deadlines and penalties for adding and dropping classes. I do not handle adding into the course, you need to see or email our MMEM Administrative Support Coordinator, Martha Layne (mlayne@csuchico.edu), to do so. You are the only one responsible for dropping the class.

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 via the communication protocol described above. The schedule is posted on Blackboard and is updated if changes happen.
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 Blackboard 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 the Late Assignment Policy Agreement is filled out and meets its criteria. This Agreement can be found on Blackboard.

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:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework /Participation</td>
<td>25%</td>
</tr>
<tr>
<td>PSVT:R Exercises</td>
<td>10%</td>
</tr>
<tr>
<td>On-line Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
<th>F</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>93.33</td>
<td>90.00</td>
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<td>80.00</td>
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<td>73.33</td>
<td>70.00</td>
<td>65.00</td>
<td>60.00</td>
<td>0.00</td>
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</tbody>
</table>

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 Information**

All students are required to complete their COVID-19 Vaccination Self-Certification by 8/15/2022. For additional information regarding this requirement please visit [https://www.csuchico.edu/coronavirus/vaccine-certification-student.shtml](https://www.csuchico.edu/coronavirus/vaccine-certification-student.shtml).

Chico State may at any time require the use of an approved face covering which covers the nose and mouth in all indoor campus spaces and in order to participate in this course when in person. When face coverings are optional, they are always welcome on campus. You will be notified if face coverings are required.
Policies and requirements regarding COVID-19 are subject to change pursuant to campus, local, state and/or federal guidelines. Please note that dishonesty relating to the vaccination policy and/or your failure to comply with any COVID-19 related safety policy or mandate may result in disciplinary action against you through the office of Student Conduct, Rights and Responsibilities, which can include suspension or expulsion from the California State University system.

It is very important for students to contact the COVID-19 hotline if they become symptomatic, believe they have been exposed, or have tested positive for COVID-19. The hotline is (530) 898-2222 or covidhotline@csuchico.edu.

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 course work. 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.

Campus Policy in Compliance with the American Disabilities Act
If you need course adaptations or accommodations 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 accommodations must register with the DSS Office (Disability Support Services) to establish a record of their disability.

Special accommodations 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 (http://www.csuchico.edu/itss)
The CAD lab with SolidWorks installed is located in OCNL 438. Other (non-CAD) 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.

Student Services (http://www.csuchico.edu/current-students)
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.

Americans with Disabilities Act (http://www.csuchico.edu/arc)
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.
Student Learning Center (http://www.csuchico.edu/sl)

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 course work 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 University Writing Center has been combined with the Student Learning Center.