Welcome to the
Department of Engineering Education!
ENGR 1182 – Introduction to Engineering II Graphics 01
Today’s Objectives

- Teaching Team Introduction
- Course Structure & Expectations
- Course Syllabus
- Graphics 01
  - Develop visualization skills using coded plans and snap cubes
  - Use coded plans to sketch objects in isometric view
- GP01 Activity
- GP01 Application
Teaching Team Introduction

- Faculty Leader
- Graduate Teaching Associate - GTA
- Undergraduate Teaching Associates - UTA

Get to know us, we’re here to make you successful!
ENGR 1182 Course Structure

- Three Components of ENGR 1182

Graphics
- Visualization Skills
- Hand Sketching

SolidWorks
- 3D CAD
- Real World Application

Advanced Energy Vehicle (AEV)
- Team Engineering Design Project
- Autonomous Robot using an Arduino micro-controller
- Semester Long Project
- Final Competition

Midterm 1
- Weeks 1-5

Midterm 2
- Weeks 5-10

Final Documentation
- Weeks 3-16
Structure & Expectations

The Flipped (or inverted) Classroom

- Students watch lectures/study materials online before class.
- Concept engagement takes place in the classroom with help of instructional team (same as 1181).
Learning Modules

**MODULE EXAMPLE**

**TOPIC:** GRAPHICS 02  
**QUIZ:** GP02 (ON CARMEN)  
**LECTURE:** GRAPHICS 02 (ON WEBSITE)

**TOPICS:**
- ISOMETRIC SKETCHING FROM DIFFERENT VIEW POINTS
- INCLINED AND CURVED SURFACES IN ISOMETRIC SKETCHING

**IN-CLASS ACTIVITY:** GP02-IN  
**OUT-OF-CLASS ASSIGNMENT:** GP02-OUT

**Graphics 02**

- Isometric Sketching + Inclined Surfaces in Isometric
- Curved Surfaces in Isometric
Required Materials

Before Class

Reading

Local Bookstores

Drawing Packet: ENGR 1182 Course Packet
Local Bookstores
Logging In

- Press <CTRL> + <ALT> + <DELETE>

- Enter OSU credentials
  - OSU lastname.#
  - OSU Password
Carmen

- [https://carmen.osu.edu](https://carmen.osu.edu)

- Online tool for some course resources
  - Gradebook, quizzes, journals
  - Use OSU login
  - 24/7 access

- Communication between instructional staff and students
OSU Email

- Check your OSU email daily for important information and updates.
- Use OSU email for all communication with your instructional team.
- We cannot email private or personal information to you via non-OSU email addresses.
The eedcourses website

Course website:

- Type in [http://eedcourses.engineering.osu.edu](http://eedcourses.engineering.osu.edu)
  - Contains all ENGR 1182 course materials
  - Arranged by class meeting time and schedules

- Navigate to > 1182 > your Schedule Number or your instructor and time
  - Click on the link called "Graphics 1"

- Helpful hint: Bookmark your class schedule page ! ! !
Website Organization

Graphics 1 - Isometric Sketching and Coded Plans

1182 Website Home
1182 Website Content
1182 Class Schedules

Before class:  
1. Textbook Reading - Section 2.06, 2.07.01, 2.11.01

In-class:  
Topic: Course Introduction

1. Instructor’s Presentation - Powerpoint or PDF
2. Introduce Instructional Staff
3. Go over the 1182 Syllabus
4. Purchase (1) the 1182 Course Packet and (2) the Textbook
5. Explore the resources on the 1182 Content Page and the Resources Page

Topic: Isometric Sketching and Coded Plans

1. Instructor’s Presentation - Powerpoint or PDF - SolidWorks Image for Coded Plans SLDPRS and SLDRLW
2. Optional "Example" Presentation of 1st In-Class GP_01 problem - Powerpoint or PDF
3. In-Class Activity - PDF or Word

After class:  
1. GP_01 Homework - PDF or Word - due at the beginning of Graphics 2
2. Register and complete the CATME survey - CATME - due at midnight
3. Explore the Student Resource Guide
4. Explore the 1182 Content Page and the Resources Page

Journal:  
Journal - due on selected Sundays at 11:59 pm - Carmen

Next class: Graphics 2 - Isometric Sketching from Different View Points + Inclined and Curved Surfaces in Isometric
Syllabus Review

- Assignment Policy
- Makeup Exam Policy and Guidelines
- Hands-on Laboratory
- Attendance and Participation
- Assessment and Evaluation
- Grading
- Online Evaluation Tools
- Journals
- Team Evaluations
- Academic Misconduct

**NOTE:**
In order to receive a passing grade in this course, a minimum grade of 50% is required in all three course components:
- Class Assignment
- Design Project
Team Formation

- You will work in teams of four on many assignments during the semester.
- Teams are created using a Team-Maker tool.
- You should have received email with a link.
- This survey needs to be completed soon.
Methods of Getting Help

- UTA Tutoring
  - Available in First-Year Engineering computer lab (HI 324)
  - Staffed Mon-Thurs 9-7, Fridays 9-3

- GTA
  - Make an appointment or stop by office hours, they’ll appreciate it!

- Instructor
  - Make an appointment or stop by office hours.