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 In-Class Activity
- GP01 After-Class Assignment
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

  Midterm 2

  Final Documentation

  Weeks 1-5
  Weeks 5-10
  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
Required Materials

Before Class

Reading

Textbook:
Fundamentals of Engineering (OSU Edition)
Local Bookstores

Drawing Packet:
ENGR 1182 Course Packet
Local Bookstores

In Class Activity
Logging In

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

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

- 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
- Website Content
- Class Schedules

<table>
<thead>
<tr>
<th>Before class</th>
<th>1. Textbook Reading - Section 2.06, 2.07.01, 2.11.01</th>
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</thead>
<tbody>
<tr>
<td>In-class</td>
<td>Topic: Course Introduction</td>
</tr>
<tr>
<td></td>
<td>1. Instructor's Presentation - PowerPoint or PDF</td>
</tr>
<tr>
<td></td>
<td>2. Introduce Instructional Staff</td>
</tr>
<tr>
<td></td>
<td>3. Go over the 1182 Syllabus</td>
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<td></td>
<td>4. Purchase (1) the 1182 Course Packet and (2) the Textbook</td>
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<td></td>
<td>6. Explore the resources on the 1182 Content Page and the Resources Page</td>
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<tr>
<td>Topic: Isometric Sketching and Coded Plans</td>
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</tr>
<tr>
<td>1. Instructor's Presentation - PowerPoint or PDF - SolidWorks Image for Coded Plans SLDPR and SLDDRW</td>
<td></td>
</tr>
<tr>
<td>2. Optional &quot;Example&quot; Presentation of 1st In-Class GP_01 problem - PowerPoint or PDF</td>
<td></td>
</tr>
<tr>
<td>3. In-Class Activity - PDF or Word</td>
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<tr>
<td>After class</td>
<td>1. GP-01 Homework - PDF or Word - due at the beginning of Graphics 2</td>
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<tr>
<td></td>
<td>2. Register and complete the CATME survey - CATME - due at midnight</td>
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<tr>
<td></td>
<td>3. Explore the Student Resource Guide</td>
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<tr>
<td></td>
<td>4. Explore the 1182 Content Page and the Resources Page</td>
</tr>
<tr>
<td>Journal</td>
<td>Journal - due on selected Sundays at 11:59 pm - Carmen</td>
</tr>
<tr>
<td>Next class</td>
<td>Graphics 2 - Isometric Sketching from Different View Points + Inclined and Curved Surfaces in Isometric</td>
</tr>
</tbody>
</table>
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.