Welcome to the First-Year Engineering Program
ENGR 1182
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 Out-of-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

- 3 main subjects of ENGR 1182

**Graphics**
- Visualization Skills
- Hand Sketching

**SolidWorks**
- 3D Computer Aided Drafting
- 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**

**Session:** 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

Before Class  
Reading Material  
Carmen Quiz  
Preparation  
Lecture  
Practice and Assessment  
In Class Activity  
Out of Class Assignment
Required Materials

TEXT: Engineering Design (OSU Edition) Local Bookstores

In Class Activity

Reading Material

Drawing Packet: ENGR 1182 Course Packet Local Bookstores
EEIC Courses Website

- [http://eeiccourses.engineering.osu.edu/](http://eeiccourses.engineering.osu.edu/)
  - Contains all ENGR 1182 course materials
  - Arranged by class meeting periods

- Navigate to website > 1182 > Your schedule # or professor and time
  - Find **Class 1**
# Website Organization

## Class 1 – Introduction to Engineering

| Assignments due at the beginning of class:      | None                                                                 |
| Things to do / read / study / learn before class: | None                                                                 |
| In-class activities:                             | 1. Introduction to Engineering slides - [Powerpoint](#) or [PDF](#)   |
|                                                | 2. Introduce Instructional [Staff](#)                                 |
|                                                | 3. Hand out and go over the Syllabus - [PDF](#) or [Word](#)         |
|                                                | 4. Show the video - Introduction to Engineering                       |
| Assignments to be completed after class:       | Complete [TeamMaker](#) by midnight                                  |
| Link to the next class:                         | [Class 2 - Introduction to Problem Solving](#)                       |
| Link to the next lab:                           | [Lab 1 - Marble Delivery System Lab](#)                              |
Carmen

- Online tool for some course resources
  - Gradebook, quizzes, journals
  - [https://carmen.osu.edu](https://carmen.osu.edu)
  - Use OSU login
  - 24/7 access

- Communication tool between instructional staff and students
Syllabus Review

- Assignment Policy
- Makeup Exam Policy & Guidelines
- Attendance and Participation
- In-Class Activities & Homework Assignments
  (See lecturer notes for information)
- Assessment and Evaluation
- Grading
- Online Evaluation Tools
- Journals
- Team Evaluations
- Academic Misconduct

**NOTE:**
- A minimum grade of 50% is required in the following course components to receive a passing grade in this course
  - Class Activities
  - Lab Activities
  - Exams
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.