

**Phone: 713-688-1361 Website: www.houstonisd.org/waltrip
Manufacturing Engineering Technology I**

Instructor: Mr. Vo **Email:** lvo1@houstonisd.org **Room:** 1106 / TEAMS
Office Hour: Monday 3:25 – 4:10 ***** Tuesday – Friday 1:50 – 2:35

Course Content

In Manufacturing Engineering Technology, I (MET), students will gain knowledge and skills in the application, design, production, and assessment of products, services and systems and how those knowledge and skills are applied to manufacturing. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply and transpire academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in a manufacturing setting.

Text

The textbooks for the course is Core Curriculum: Introductory Craft Skills Trainee Guide 5th Edition

About the Teacher

I began my teaching career as a math teacher in 2009 in Chicago, IL. In 2014, I relocated to Houston to teach mathematics at Waltrip High School. I'm currently an Engineering and Fabrication Program teacher. I married my wife in 2015, and we're proud parents to Jacob (07/30/17) and Josiah (07/15/19).

Ongoing Objectives

- Become a Certified SolidWorks Associate (CSWA) and Certified SolidWorks Associate (CSWP)
- Become certified in Autodesk
- Earn Core NCCER Certification
- Developed Hard and Soft Skills for Employment

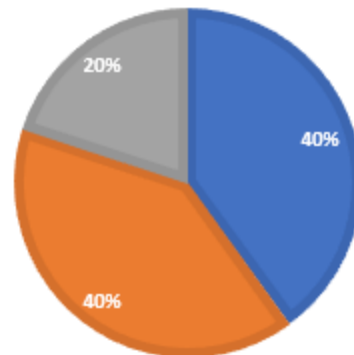
Portfolio

Students are required to maintain an organized digital portfolio for the course. It will be submitted as a grade during each project cycle. Portfolios are digital and are created on Google Site a sample portfolio is available at <https://bit.ly/3gScEwg>

Grading Scale

GRADING SCALE

■ Major ■ Daily ■ Participation



Daily 40%
Major 40%
Participation 20%

Attendance and Participation

Attendance and participation are required; it is difficult to learn the content if you are not present in class. Your class participation and attendance can be a deciding factor if your class average straddles two grades. Be sure to see me about any missed work if you are absent. In the event of an unexpected absence (i.e. illness, emergency, etc.), the student is responsible for ensuring that the absence is excused before assignments (available on the HUB) can be turned in and graded. Student will have three (3) days to turn in completed work. Students will be given at least one opportunity to submit late work following an absence. Grade penalties and the amount of time allowed to complete the assignment are as follows:

Late Work related to an absence:

3 days to turn in the assignment no points deducted full credit eligible

Late Work NOT related to an absence:

- 1 day late -10 points max 90
- 2 days late -20 points max 80
- 3 days late -30 points max 70
- 4 days late -40 points max 60
- 5 days or later - zero assigned to the grade book

ASSESSMENT RETAKE POLICY

A student will be permitted to retake any major test. The retest must occur within five (5) school days of the date the grade was received. The higher of the two test grades will be recorded. This does not apply to final exams. CSWA retakes must wait at least 30 days per SolidWorks policy.

Online Norms

- Camera on (preferred)
- Dressed for class
- Microphone muted when not speaking
- Raise hand for questions
- Participate in chat – on task / on topic
- Attentive – Sitting upright
- Engage in discussion and activities

Daily Required Materials

1.laptop2. Writing Utensils 3. Project materials4. Homework (late work by 11:59 PM)

Course Overview

Unit 1: Employability Skills

Unit 2: Computer Aided Design Manufacturing (CAD/CAM)

Unit 3: Computer Numeric Control (CNC)

Unit 4: Programmable Logic Controls (PLC)

Unit 5: Electrical Controls and Wiring

Unit 6: Pneumatics and Hydraulics

Unit 7: Thermal Science

Unit 8: Analyzing Quality Control Systems