



Waltrip Engineering and Fabrication Program of Study
Phone: 713-688-1361 Website: www.houstonisd.org/waltrip
Manufacturing Engineering Technology I

Instructor: Interim Mr. Blassingame
Email: jblassin@houstonisd.org
Room: 1104
Off Period: Periods 4 & 5

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

About the Teacher

I am a dedicated associate teacher at Waltrip high school and have been for the past nine years. I am excited to be starting the year off with the engineering and fabrication program of study. I will be working with Ms. Witherspoon (Spoony) and Mr. Rakha to ensure that you are gaining the knowledge and skills necessary to be prepared for your next course in this program of study.

Ongoing Objectives

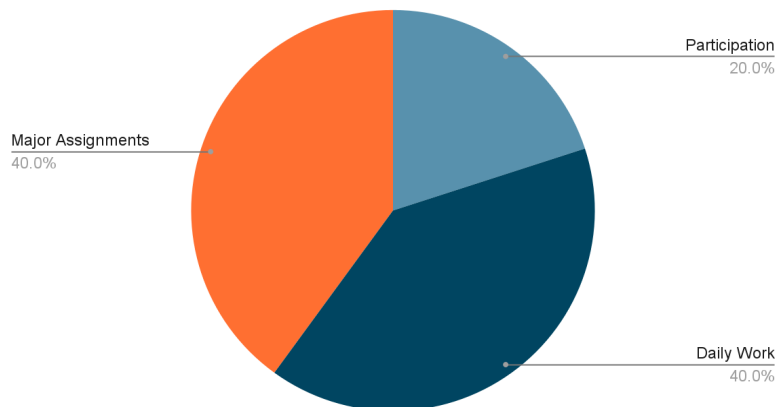
- Become a Certified SolidWorks Associate (CSWA)
- Become certified in Autodesk
- Earn Core NCCER Certification
- Developed Hard and Soft Skills for Employment

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 here is a [sample portfolio](#)

Grading:

Grading Categories



Attendance and Participation

Attendance and participation are required; it is difficult to learn the content if you are not present in class.

Scoring policy:

Absent = 0

Present = 50

Assessment of work = 60-100

If you are present you and you turn an assignment in you will be scored starting at 60 and can earn points based on the quality of the assignment up to 100 points or more if the work is superior.

Late Work related to an excused absence

3 days to turn in the assignment no points deducted full credit eligible for an excused absence

Late Work unexcused absence

For each day late for any graded assignment, 10 points will be deducted from potential points possible 50% will be scored for the grade. The lowest score on a completed and turned-in assignment is 60. Assignments will not be accepted three weeks after the due date or after the grading cycle ends whichever comes first.

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 14 days per SolidWorks policy.

Classroom Procedures

Classroom Norms

Cell phones out of site

Respect to all

Follow all school rules

Keep volume level appropriate

Professional language only

Raise hand for questions

Participate in class discussions

Stay on task / on topic

Attentive – Sitting upright

Consequences

Warning

Written Warning

Contact guardian

Referral to office

After referral, each following infraction is a referral

Daily Required Materials

Laptop with charger*.Laptop wireless or wired mouse (Optional for CAD)*Writing Utensils*Project materials

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

Students, please note that if at any time during your participation in the Engineering and Fabrication Program of Study you find that the teacher-selected project is not something you are interested in and you have an idea for a project that you would like to do and that project covers the same TEKS. You may request to complete an instructor-approved project.