

IED

Engineering

AY: 2020 - 2021

James Madden:
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1800 H Street
Union City, CA 94587
Room Number: 61
Periods 1, 2 and 3
Office Hours= Wednesdays 3:30 To- 4:00pm

- First Three Days of School, we will use the Monday schedule.
 - **Period 1:** Mondays 9:50-10:20 am (30 mins)
Tuesdays & Thursdays 9:50-11:10 am (80 mins)
 - **Period 2:** Mondays 10:25-10:55 am (30 mins)
Wednesdays & Fridays 9:50-11:10 am (80 mins)
 - **Period 3:** Mondays 11:00-11:30 am (30 mins)
Tuesdays & Thursdays 12:30-1:50 pm (80 mins)

Course Description

Introduction to Engineering Design (IED) is a high-school-level foundation class in the Project Lead the Way (PLTW) Engineering Program. In IED students will learn hand sketching, hand drafting and concepts related to Autodesk Inventor Software in order to design and document solutions for major course projects. Using the activity, project and problem based (APB) teaching and learning pedagogy, students' progress from completing structured activities to solving open-ended projects and problems, will require students to develop planning, documentation, communication, and other professional skills.

Note: Pandemic COVID 19, adjustments are being made to the curriculum to utilize an online class and accommodate lab activities and Autodesk Inventor software. Currently it is a work in progress. It is for this reason there will be some flexibility to the assignments since, California may go to a hybrid system of online and face to face. Auto Desk Inventor and lab activities were designed for face to face interaction. Most exams and quizzes will be given on Wednesday's (which is a minimum day). Exams will be on Mondays. I allow students to use their notes, and (Phones for calculators and to login and take test) and calculators. Please use your weekends to study as that will make up for the short time.

Exams and Quizzes:

Socrative.com: Login as student, go to the class prompt and type the following:

Madden 625. Begin exam or quizzes.

Goformative.com is another exam and warm up activity site for students. The password will be given during the first day you join the class.

Google Classroom The code will be given during the first day you join the class.

Kahoot It! The code will be given during the class activity.

Notebook Checks / Math

Students will be required to keep daily notes and binders in order. Points are given for table of contents organized properly, each page having the appropriate entry number, date, and content numbered. It is important to state that there will be an emphasis with Advanced Algebra (Statistics) and Common Core Connections Geometry by providing basic theorems about circles, and using the language of set theory to compute and interpret probabilities for compound events:

†

Key common core standards addressed in this course are:

Congruence G-CO

Understand congruence in terms of rigid motions

Prove geometric theorems

Make geometric constructions

Similarity, Right Triangles,

Circles G-C

Understand and apply theorems about circles

Geometric Measurement and Dimension G-GMD

Explain volume formulas and use them to solve problems

Visualize relationships between two-dimensional and three-dimensional objects

Modeling with Geometry G-MG

Apply geometric concepts in modeling situations

GRADING POLICY:

100- 94%= A

91-90%=B+

84-83%= B-

80-76%= C

73-72%=D+

66-65%= D-

93-92%=A-

89-85%=B

82-81%= C+

75-74%= C-

71-67%=D

Below 65%=F

Activities	%	Timeline	Points	
Lab Projects	20	Monthly/ Can vary	Can vary	
Quizzes/Problem Sets	15	Weekly/Can vary	Can vary	
Class Assignments/Projects/Homework	15	Weekly/Can vary	Can vary	
Engineering Notebook	15	Monthly/ Can vary	Can vary	
Warm up activity	5	Daily	5	
Exams	30	Monthly	Can vary	
End of Course Exam	Can raise grade With a score of 3 or 4. Cannot lower grade			
Vocabulary Sheets represents homework	15		20	

Assignment	Minutes	Quarter 1 Aug 12 – Oct 9	
Signed Syllabus is worth 60 points with parent's e-mail and phone number!	30	Given WED 8/12/20 Due WED 8/26/20 Periods: 1,2 and 3	Class Assignments/Projects
Strength Identification Multiple intelligence paper	30 Min	Given Thurs 8/13/20 Due Mon 8/17/20 Periods: 1, 2, and 3	Class Assignments/Projects
Strength Identification Multiple intelligence paper, Intro PLTW, Go Formative, Google class, Socrative	30 Min	Given FRI 8/14/20 Due Mon 8/17/20 Periods:1,2 and 3	Class Assignments/Projects
Activity 1.6-Discover Engineering	30 Min	Given Mon 8/17 Periods:1,2 and 3	Class Assignments/Projects
Notebook notes Introduction Entry 1 Activity 1.6-Discover Engineering Review PLTW, Go Formative, Google class, Socrative	80 Min	Given Tue 8/18 Periods 1,3 Due Period 1 and 3	Class Assignments/Projects
Notebook notes Introduction Entry 1 Activity 1.6-Discover Engineering Review PLTW, Go Formative, Google class, Socrative	80 Min	Given WED 8/19 Period 2 Due Wed 8/19	Class Assignments/Projects

Self-Investigation paper Vocabulary Sheet 1 Notebook notes Introduction Entry 2	80 Min	Given Thurs 8/20 Periods 1,3 Due Monday 8/24	
Self-Investigation paper Vocabulary Sheet 1 Notebook notes Introduction Entry 2	80 Min	Given Friday 8/21 Period 2 Due Mon 8/24	Class Assignments/Projects
Quiz 1 Syllabus, unit activities and notes	30 Min	Monday 8/31 Periods: 1,2 and 3	Quiz-1
Activity 1.6 b engineering and related Careers Notebook notes Introduction Entry 3	80 Min	Given Tues 9/1 Periods:1,3 Due Fri 9/4	Class Assignments/Projects
Activity 1.6 b engineering and related Careers Notebook notes Introduction Entry 3	80 Min	Given Wed 9/2 Periods:2 Due Fri 9/4	Class Assignments/Projects
Quiz 2, unit activities and notes	30 Min	Thursday 9/3/2020 30 mins before the end of the period Periods: 1 and 3	Quiz-2
Quiz 2, unit activities and notes	30 Min	Friday 9/4/2020 30 mins before the end of the period Periods: 2	Quiz-2
Problem Set 1= EXAM-1 Notebook notes Introduction Entry 4	80 Min	Given Tue 9/8/2020 Periods: 1,3	EXAM-1

Problem Set 1= EXAM-1 Notebook notes entry 4	80 Min	Given Wed 9/9 Periods 2	EXAM-1
Activity 3.5 Applied Statistics Notebook notes entry 5	80 Min	Given Thurs 9/10 Periods 1,3 Due Mon 9/14	Class Assignments/Projects
Activity 3.5 Applied Statistics Notebook notes entry 5	80 Min	Given Fri 9/11 Periods 2 Due Mon 9/14	Class Assignments/Projects
Activity 1.7 What is it?	30 Min	Given Monday 9/14 Periods 1,2 and 3	Class Assignments/Projects
EXAM-2 Notebook notes entry 6	80 Min	Tue 9/15 Periods 1, and 3	EXAM-2
EXAM-2 Notebook notes entry 6	80 Min	Wed 9/16 Period 2	EXAM-2
Activity 3.7 Statistical Analysis with Excel Notebook notes entry 7	80 Min	Given Thur 9/17 Periods 1,3 Due Mon 9/21	Class Assignments/Projects
Activity 3.7 Statistical Analysis with Excel Notebook notes entry 7	80 Min	Given Fri 9/18 Periods 2 Due Mon 9/21	Class Assignments/Projects
Activity 1.4 product Improvement	30 Min	Given Mon 9/21 Periods 1,2 and 3	Lab
Activity 1.4 product Improvement Notebook notes entry 8	80 Min	Due :Tues 9/22 Periods 1 and 3	Lab

Assignment		Quarter 1 Aug 12 – Oct 9		
EXAM-3 Notebook notes entry 9	80 Min	Given Thur 9/24 Periods 1, 3		EXAM-3
EXAM-3 Notebook notes entry 9	80 Min	Given Fri 9/25 Periods 2,		EXAM-3
Quiz-3 Activity 1.5 The Deep Dive	30 Min	Given Monday 9/28 Periods 1,2 and 3		Quiz-3 Class Assignment
Activity 1.5 The Deep Dive Vocabulary Sheet 2 Notebook notes entry 10	80 Min	Due Periods 1,3=Tuesday 9/29 Given Tuesday 9/29 Due Thurs 10/1/		Class Assignment Class Assignment
Activity 1.5 The Deep Dive Vocabulary Sheet 2 Notebook notes entry 10	80 Min	Given Wed 9/30 Period 2 Due Fri 10/2/		Assignments/Projects Class Assignment
Activity 1.9 Design innovation	30	Given Mon 10/5 Periods 1,2and 3 Due TBD/Final Exam Schedule	20	Class Assignments/Projects
Due TBD/Final Exam Schedule		Due TBD/Final Exam Schedule		Due TBD/Final Exam Schedule

Lab Projects:

- Behavior and safety is paramount If a student has demonstrated unsafe behavior, they will not be allowed to participate in lab activity or use certain tools. They will Complete work sheets on construction and math assignments.

Recommended Materials for Students*

- Lined paper & graph paper
- Pens and pencils
- Calculator
- 3-ring binder (3") with 3-page dividers
- A section for Math in the common binder for the following:
 - a. Course Syllabus
 - b. Assignment/ Handouts
 - c. Quizzes/Exams

Netiquette (School Expectation):

First off, let us just be clear: when anyone engages online, it is essential that everyone behaves appropriately. As a quick reminder, when you are online, be sure to:

- Use respectful behavior and language.
- Stick to appropriate topic discussions.
- Send only appropriate video transmissions.
- Use only appropriate icon, emoji, and avatar submissions.
- Wear school appropriate clothing if you are attending meetings via video.
- Be honest and do not plagiarizing or copying others' work -- in other words, use academic integrity.
- Not falsify information about yourself or impersonate others online.

When everyone remembers to act kindly, show consideration for others, and treat one another online as you wish to be treated in person, we will all be able to focus on learning.

DISTANCE LEARNING Expectations:

- Login to zoom on time and wait until you can join.
- Stay in class with your camera on, so I will know if you are engaged.
- Join our class discussion, take notes, and do all the assigned classwork.
- Work with your teams during Zoom breakouts and submit all groupwork on time.
- Respect your teacher and your classmates. Raise your hands if you want to speak.

DISTANCE LEARNING Attendance:

- You will be marked tardy if you are 15 minutes late logging in our zoom class.
- You will be marked absent if you are more than 30 minutes late logging in our zoom class. Unless your parents send an excuse email to the school and cc me.

ON CAMPUS Expectations:

- Line up outside the classroom come in **quietly**.
- Be on time and bring all required materials to class with you.
- Be ready to begin when the bell rings.
- The teacher will dismiss you, not the bell.
- Be respectful.
- Be your best!

Responsibilities:

- Wear appropriate clothing at all times. Refer to the JLHS dress code.
- You will work cooperatively during group activities. Each team members should do their individual roles.
- Insulting or inappropriate language will not be tolerated.
- Harassment of any kind (bullying, sexual, etc.) will not be tolerated.
- Follow school wide rules and policies in the classroom.

Late work/ Make up work:

Student must complete missing work within 1 week (7 school days). It will be done after school with an appointment made. If the students is 15 minutes late in their appointment, the test/assignment will be canceled. Student will be given a “0” on the assignment.

If a student is absent/does not complete the assignment, it is considered homework:

- It is the student’s responsibility to go to the website maddensclass.com find the assignment and submit it to me. Student can email the teacher or ask a classmate what assignments were missed after attempting to find it on their own.
- Homework will consist of work not completed in class to be done at home (See curriculum mapping for specifics)
- If a student misses an assessment (test or quiz), they have one week to make it up and submit it the next Monday at 4:45 PM.

Cheating/Plagiarism

All work submitted for grading must be your own. If cheating is detected on any piece of work submitted for credit, a grade of 0 will be given to this piece of work and further actions will be performed as dictated by administration.

Additional Information

- Appointments and phone conferences with the teacher will be available after school on Wednesdays 3:30 To 4:00pm .

Sincerely,

James Earl Madden Jr
M.A Ed Administration

Please sign and return this page by **Wednesday, August 26, 2020**
Or send me an email indicating that you have read the course syllabus.

Student's Name: _____ Class Period: _____

I have read the course syllabus, and I have shared its contents with my parents. Furthermore, I am aware of the grading policy that will form the basis of my evaluation and how my grade will be computed. I am aware that homework is an extension of the regular classwork. I realized that I am required to maintain a binder containing all notes, classwork, homework, and other assignments. **I understand that my participation in this class is not optional. I am committed to completing all assignments, exams, and quizzes.**

I have read the expectations, and I am aware of what is expected of me to be successful in this class.

Student Signature: _____ Date: _____

Parental support is requested to make sure that all assignments are completed and turned in on time. Parents are also asked to sign below, indicating that they understand the all information on this course syllabus.

I have read the expectations, and I am aware of what is expected of my child to successfully complete this course.

Parent/Guardian Name _____

Contact number/s _____

Email _____

Signature _____ Date _____

Parent/Guardian Name _____

Contact number/s _____

Email _____

Signature _____ Date _____

Together we can make a difference!