

Engineering and Entrepreneurship

Mr. Schmidt

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Classroom phone: 520-232-5653

Welcome to University High School's Engineering and Entrepreneurship course. This class will be an advanced class based around using the T8 MakerSpace tools and facility to solve people's problems and meet their needs. I try my hardest to make all of my classes enjoyable for you the student, as well as for myself. I feel that education is far more beneficial for both of us if we can have a good time doing it. I am confident that if we work together all my expectations for you and your expectations for this class will be met.

Throughout the school year, if either students or parents need to reach me email is always the preferred option: robert.schmidt@tusd1.org Normally, I will respond within one school day. Sometimes I can't reply to late Friday emails until Monday morning. However, if you need to speak with me in person, I'm almost always available during conference periods, and will make myself available after school, by appointment.

Please read the course syllabus as a family, familiarize yourself with my policies and then sign and return the signature portion of the syllabus. I'm expecting to have a great year, let's make it a fun, educational, and memorable experience.

Class Syllabus

I. Course Description:

A. Overall Learning Objectives

- Be able to use **the design process** to meet expressed needs.
- Become effective **team** members.
- Become effective **communicators**.
- Create career plans and develop the personal management skills necessary to become **self-reliant professionals**.
- Understand the fundamental principles that support **learning** and become lifelong learners.
- Learn the **safe** use of MakerSpace tools and facility.

II. My Goals for the Year:

Obviously, the major goal for the year is to always keep my students as safe as I can in the while also completing the curriculum for this course and meeting the needs of our RUHS customers. I also want my students to achieve some of their individual MakerSpace design and construction goals. My secondary goal as a teacher is to try to have as much fun as I can while still teaching you everything you need to know and be safe! Let's try to make this year enjoyable and make something that we can both be proud of!

III. Policies and Procedures:

A. Attendance, Tardy, Discipline, and Dress Code Policies:

These school/district-wide policies are taken from the UHS Student Handbook and TUSD policy. I follow the given guidelines as closely as possible.

B. Classroom Behavior:

My behavior policy is very simple. Students have the right and responsibility to learn. I, as the teacher, have a right and responsibility to teach. Anything that keeps either of us from doing our job is a deterrent to the educational well-being of the classroom and shall be dealt with accordingly.

The only specialized rule of the MakerSpace when it comes to classroom behavior is one of safety. In the shop, students will be using tools that could cause serious injury to themselves or others. No inappropriate or dangerous use of the tools will be tolerated. There is a zero-tolerance policy for knowingly engaging in these behaviors. If they are observed in class, the student will be exited from the course or required to sit-out from any future activities involving the MakerSpace equipment.

C. Conference Periods:

The conference periods on Mondays and Tuesdays are time for the MakerSpace club to meet. During this time, there will be open use of the MakerSpace facilities. Any student that has completed the requisite safety tests can use the tools they have been cleared to use at their own risk.

D. Cell Phones:

Many of you will bring cell phones to school. You will not always be allowed to answer a call during class nor will you always be able to make one. I do understand that many of you carry cells so that your parents can get a hold of you quickly. **In case of an emergency, parents should call the UHS office at 232-5900. If they call your cell phone, you will not necessarily be allowed to answer it.** If your cell phone disrupts my class, or if I ever have to ask you to put your phone away (which includes you pulling it out to play games or take pictures) I will refer you to the administration for disciplinary action.

E. Grading:

Group Projects:

40% Participation points – earned by working on the project in some capacity awarded every week
20% Production points – earned from the customer satisfaction survey about the quality of the product and the customer service
40% Presentation points – earned from the quality, accuracy, and appropriateness of the culminating presentation

Individual Projects:

50% Participation points – earned by working on the project in some capacity awarded every week
50% Presentation points – earned from the quality, accuracy, and appropriateness of the culminating presentation.

The grading scale for your semester grade is as follows:

100% - 90%	A
89% - 80%	B
79% - 70%	C
69% - 60%	D
Below 60%	F

For every tool in the shop, there will be an online safety test followed by a practical test to demonstrate mastery. These tests **DO NOT** affect a student's grade. Upon successful completion of both tests, students obtain permission to use that tool during class time or during Conference Period.

F. Cheating/Honor Code:

If it is found that a student has violated the honor code in any way (including; homework, quiz, test, project, or final exam) a grade of zero will be recorded for that assignment. If the assignment has more than one component part, cheating on one portion will warrant a zero on all parts of the assignment. **Please note that submitting the name of another student on any assignment in which that student did not contribute equally or did not participate in EVERY portion of the assignment will be considered and honor code violation.**

I have a zero-tolerance policy for cheating. I will be very clear about my guidelines for class work, tests, and projects. If those guidelines are violated, you will earn a zero on the assignment with no possibility of make-up points.

G. Homework:

Homework does not really apply to this course. There may be times where a student misses a portion of a group project and is asked by their group to complete an individual portion on that student's own time. Any other out-of-class time needed for completion of an individual project will need to happen during Conference Periods. The MakerSpace facility and tools will be available at those times.

H. Make-up Work:

The only time Make-up work might apply is for the situations listed above when an individual student needs to make-up a portion of their group activity work.

I. Texts:

At times, we will have online videos or readings to prepare for in class safety tests. These can be accessed by computer or phone.


IV. Materials

Everyday, I expect you to come to class prepared. Here's what I want you to bring to class everyday:

1. Provide own materials for any project above and beyond the basic available supplies
2. A positive attitude!

I want you to learn the intermediate and advanced techniques in the use of the MakerSpace equipment to solve problems around the RUHS campus and meet the needs of our RUHS customers. Additionally, I want you to make something that you can be proud of and to have a good time doing it. If you find that for any reason you are having troubles, come and talk with me. Though you might not want to believe it, I am a compassionate human being, and your happiness and success in this course is important to me. I want you to have a great year here at RUHS and to make some to make projects of which you are proud!

Let's have a great year,



Mike Schmidt