

FOLSOM CORDOVA UNIFIED SCHOOL DISTRICT
Folsom High School 2019-2020
COURSE EXPECTATIONS

COURSE: INTRODUCTION TO ENGINEERING
INSTRUCTOR: Tyler Johnstone
PHONE: (916) 294-2400 x 415300
CLASSROOM: HS 205
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COURSE DESCRIPTION:

1. Students learn the engineering design process, and learn how this process is used to develop products and solve engineering problems. This process very closely parallels the process of scientific inquiry. In the case of engineering, the process is a means to efficiently solve problems.
2. Students will understand and follow a variety of design constraints, including physical (volume, mass, density, and the connection between material strength and design), functional (design features and device functions) and marketing-based (cost, target market, price-point, etc.)
3. Students learn various methods of technical sketching as a means to communicate design ideas.
4. Students learn how to create a working drawing with accurate dimensioning, tolerances, and necessary annotations (materials, manufacturing methods, standards, etc.) This includes learning to create a variety of different drawings (isometric, perspective, oblique and orthographic) and views (multi-view, auxiliary view, section and detail views).
5. Students will understand different measurement systems and standards and the importance of precision in design.
6. Students will learn the visual design elements and principles that apply to engineering design.
7. Students will learn structural and functional analysis in order to better understand the function of a device, and then innovate on the original design.
8. Students will learn to work in teams. Students will experience virtual teaming, and will better understand the challenges involved in teaming.
9. Students will develop a better understanding of ethical and environmental issues connected to engineering design.

EQUAL OPPORTUNITY:

Folsom High School is committed to equal opportunity for all individuals. Activities shall be free from discrimination based on gender, race, color, religion, national origin, ethnic group, marital or parental status, physical or mental disability or any other unlawful consideration.

METHODS OF EVALUATION:

Homework is used as method of practice and evaluation. Homework is not optional. Students not completing their homework will fall behind in learning objectives. As a teacher, I need to see how students perform on homework to identify where I need to help individual students or practice more with concepts prior to a final evaluation. Tests and quizzes will be administered on a regular basis to assess student learning. Students should expect at least one quiz and test to cover each chapter or unit of study.

Quizzes or tests will be administered in a variety of ways to assess student learning.

Project assessment will follow industry standard of 65%, 80%, 90%, and 100% completion. If a student is behind at one of these check points, they will be given a punch list of tasks that will need to be remedied prior to the next check point.

The grade breakdown is as follows: A= 90-100% B= 80-89% C= 70-79% D= 60-69% F= 59% or below

POWERSCHOOL:

Grades are updated on PowerSchool throughout the year. Parents and students should be aware of grades there. Citizenship and grades change throughout the year. This is the place for students to see their most updated grade.

SCHOOL RULES:

Campus rules and policies in the PAWSPORT will be adhered to in this classroom; see appropriate pages for a detailed list. Remember that no food, drink, or gum will be allowed; all iPods, cell phones and accessories must be turned off and placed out of sight during class; and all staff will be enforcing the school dress code throughout the entire school day.

CITIZENSHIP:

Grades shall be assigned by each teacher. These marks set behavior standards that describe an appropriate educational environment for all students. See PAWSPORT for marking system.

MAKE-UPS:

See your PAWSPorts. Policies regarding makeup work due to unexcused absences are adhered to in this class. LONG TERM ASSIGNMENTS ARE STILL DUE ON THE DATE ASSIGNED, REGARDLESS OF ATTENDANCE ON THE DUE DATE. It is the student's responsibility to acquire any work missed during an absence. If you are absent on a day that a test or quiz is given, you will immediately take the test or quiz upon your next arrival to class. All late work will need to be submitted via the procedures outlined to the class.

ATTENDANCE/TARDIES:

Students are expected to attend class every day to ensure success. Students cannot receive the same quality education when they are not in the classroom. Students are expected to be on time to class every day. "On time" means you are inside the classroom when the bell rings. **School-wide late policy will be in effect and will be strictly enforced, as late students cause a disruption to the class, and to teaching.**

EXTRA CREDIT:

Students are expected to do all classwork. Extra credit is for students doing additional learning, not a grade replacement for students missing assignments. Extra credit is very rarely given in class and is NEVER given in place of missing assignments.

MATERIALS:

- Scientific Calculator- Cell phone, iPods, etc. will NOT be allowed for use as a calculator. Please be prepared for class with a PENCIL, PEN – Blue or Black Ink only.
- Lined Binder paper, your student ID and student PAWS Port. You must have your PAWS Port to leave class for any reason. A highlighter is also recommended.
- **Graph paper notebook. This is an engineering class. Your class notebook must have graph paper. You can look into getting an official engineering notebook online, but this isn't required.**
- Glue stick(s)
- A folder for storing work that is handed back and graded is strongly suggested.
- Textbook to be checked out from school library: Introduction to Engineering

We recognize that many families wish to provide supplies for their own student or donate materials to the school and are welcome to do so at any time. The supplies listed are suggested materials and are not required of any student or family to fully participate in the school's academic program. All required materials and supplies will be provided by schools to students at no cost.

DONATIONS:

State law does not allow school districts to charge fees to students for educational activities; many of our programs rely on financial contributions from participating families. Please know that a donation is not required to participate, and families that choose to contribute may do so at any amount. A suggested donation can help sustain school wide programs.

[Suggested donation for the cost of 3D printing and other building materials in this class is \\$25.00. This can be paid by check or online through FHS.](#)

TEXTBOOK/MATERIALS RESPONSIBILITY:

Students are responsible for having their materials and keeping those materials in good condition and secure.

ACADEMIC DISHONESTY/PLAGIARISM:

All students at Folsom High School are held accountable to the school wide Academic Honesty Policy as stated in the PAWSPORT(p21). Please consult the policy for a detailed list of what constitutes cheating and consequences for each step. A single instance of cheating counts as a Step 1 Offense and follows a student throughout their entire class schedule and through all of their years at Folsom High. The next instance (even if in a different class or years later) counts as Step 2 and or 3. All grade levels (9-12) across the disciplines will have access to use Turnitin.com as an educational tool to help support academic accountability. For further information related to our Academic Honesty Policy, please review the PAWSPORT.

Cheating will be defined as using someone else's efforts in place of your own or providing work for someone else. All individuals, both receivers and providers, involved in cheating will receive a zero on the assignment in question. Examples include letting a friend copy your work, providing answers to a test, or printing two copies of work produced on a computer. This has been a consistent challenge for students in the past. Students need to do all their own work in its entirety. Copying from the internet is never allowed.

CLASSROOM EXPECTATIONS:

In a class period, this will be the order of discipline:

1st offense – warning (this can also be a NONVERBAL warning from the teacher as well if you are interrupting during direct teaching).

2nd offense – private consultation with teacher

3rd offense – class suspension (due to defiance)

4th offense – Parent conference, an Administrator may be present

If these behaviors are continually repeated and behavior is not changed, IMMEDIATE suspension will result.

PLEASE NOTE that during class, severe offenses including but not limited to: blatant disrespect or defiance, foul or offensive language (even jokingly), endangering another person or threatening to endanger another person, fighting, property damage, etc., will result in IMMEDIATE class suspension and escort to the V.P.

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To the Student's Family: Please sign below indicating that you have reviewed course expectations and grading policies for this course and return this form to me. I appreciate your time and support.

Please feel free to email me at tjohnsto@fcusd.org or call me at (916) 294-2400 ext. 415300 if you have any questions. I'm much better at responding to email quickly, rather than checking voicemail.

**This signature is in addition to parents and students completing
the welcome survey on MrJohnstone.com,
Checkin.MrJohnstone.com**

Student Name (PRINT) _____

Student Signature _____

Parent Name (PRINT) _____

Parent Signature _____

A donation to the Career Technical Education/Engineering department is appreciated to help offset costs for this program and to maintain the quality of the engineering programs we have here at FHS. Checks can be sent with the students and will be used to support only students in this course.

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