



Glencoe High School
Class Syllabus for Principles of Engineering
Chris Steiner

Teacher Contact Information

Teacher Name	Chris Steiner
Teacher E-mail	steinerc@hsd.k12.or.us
Teacher Phone	503-844-1900 ext. 3596
Teacher Website	https://www.schoology.com/
Office Hours and Availability	<ul style="list-style-type: none">• In general, the best way to contact a teacher is via email. Staff at Glencoe will return phone calls and emails to parents in a timely fashion.• Teachers regularly update parentvue. Be sure to have a log-in and check your student's progress frequently.• Teachers are also often willing to work with students outside of class time; however it is up to students to arrange this time with the teacher.• I am available: 8:00-8:30am, 3:30-4:00pm

Course Information

Subject - Course Title	Industrial Technology - Principles of Engineering
Course Description	Principles Of Engineering (POE) is a high school-level survey course of engineering. The course exposes students to some of the major concepts that they will encounter in a post secondary engineering course of study. Students have an opportunity to investigate engineering and high tech careers. POE gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem solving skills based upon engineering concepts. It also allows students to develop strategies to enable and direct their own learning, which is the ultimate goal of education.
Course Content	Unit 1 Energy and Power (25 days) Lesson 1.1 Mechanisms (8 days) Lesson 1.2 Energy Sources (5 days) Lesson 1.3 Energy Applications (5days) Lesson 1.4 Design Problem –Energy and Power (6 days) Unit 2 Control Systems (23 days) Lesson 3.1 Machine Control (8days) Lesson 3.2 Fluid Power (7 days) Lesson 3.3 Design Problem – Control Systems (7 days) Unit 3 Statistics and Kinematics (7 days) Lesson 4.1 Statistics (2 Days) Lesson 4.2 Kinematics (5 Days)

	Unit 4 Materials and Structures (20 days) Lesson 2.1 Statics (7 Days) Lesson 2.2 Material Properties (5Days) Lesson 2.3 Material Testing (5Days) Lesson 2.4 Design Problem – Materials and Structures (2 Days)										
WICOR Strategies	Students will be able to identify problems, create and justify solutions, develop prototypes and testing to evaluate their solutions, and communicate their results to professionals and peers.										
Grading Scale	<table border="1"> <tr> <td>A</td> <td>90 - 100%</td> </tr> <tr> <td>B</td> <td>80 - 89%</td> </tr> <tr> <td>C</td> <td>70 - 79%</td> </tr> <tr> <td>D</td> <td>60 - 69%</td> </tr> <tr> <td>F/I</td> <td>59% and below Incompletes: Students may receive an incomplete grade from a teacher for various reasons. If an incomplete is given students must finalize their grade by completing any missing or make-up work within 2 weeks of the next semester starting. At this point any incomplete grade will become F.</td> </tr> </table>	A	90 - 100%	B	80 - 89%	C	70 - 79%	D	60 - 69%	F/I	59% and below Incompletes: Students may receive an incomplete grade from a teacher for various reasons. If an incomplete is given students must finalize their grade by completing any missing or make-up work within 2 weeks of the next semester starting. At this point any incomplete grade will become F.
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Grading Policy	<p>Grading Policy. Grades are based on a series of activities, presentations and projects which will be assigned during the term.</p> <p>All students will be given a detailed grading criteria and point value for all projects, presentations or other assignments at the start of the assignment. Each quarter will have two main projects, which the student MUST complete to receive credit for the course. Formative assessments make up 10% of the grade, summative assessments make up 90%</p> <p>Late Work. Late work is accepted for any project except for class presentations. When you are assigned a time and day to present your work to the class, being prepared and on-time is part of the assignment.</p> <p>Make-up Work and Exams. Make-up work will be handled on an individual basis. Since most work is accepted late, make-up work is not a problem. In cases where a student misses a week or more of class, or is unprepared for a presentation, we will work out something reasonable together.</p> <p>Test Retake Policy. Students may retake assessments once.</p>										

Classroom Expectations

Behavior Expectations	All students need to come to class with supplies and ready to work. Students are also expected to show respect to the teacher and fellow students.
Cell Phones and Technology	Students may use whatever form of technology is appropriate for their classwork including personal devices such as laptops, tablet, and cell phones. They are asked to put away these devices when the teacher or other students are presenting information that requires everyone's attention. Student electronic devices are only allowed in classrooms with teacher approval at

	<p>appropriate times and for appropriate uses. Misuse of technology will result in the following consequences:</p> <ul style="list-style-type: none"> ● First offense. Warning from the teacher. ● Second offense. Phone must be given to Assistant Principal's office and picked up at the end of the day by student. ● Third offense and beyond. Phone must be given to Assistant Principal's office and picked up by a parent/guardian.
<p>Attendance and Tardies</p>	<p>Students are encouraged to have over 90% attendance. Students who miss class are less likely to be successful in school. ALL absences need to be excused by parent/guardian.</p> <ul style="list-style-type: none"> ● Unexcused period absences are considered "skipping" and may result in a referral. Allowing make-up work for unexcused absences is up to teacher discretion. A student who is more than 10 minutes late is considered unexcused absent. ● For excused period absences, students have the number of days missed to make-up missing work. Exceptions to this are based on teacher make-up work policy. ● Tardies. Students who arrive to a class after the late bell rings must get a pass from the attendance office before being admitted to class. A period tardy results in lunch detention.
<p>Academic Honesty</p>	<p>Students are expected to put forth their best efforts on tests and assignments, and not deliberately underperform. Students are expected to demonstrate respect toward their instructors and peers by encouraging and facilitating learning. Engaging in various forms of cheating or academic dishonesty does not permit students to realize the full extent of the educational experience or their full academic potential. Students are encouraged to converse with others and assist other students, except when doing so is inconsistent with testing or assignment instructions.</p> <p>Prohibited events include, but are not limited to, using or sharing prohibited study aids or other written materials on tests or assignments. Academic dishonesty also includes sharing, collaborating, or communicating with others on tests or assignments, before or during tests or assignments, in violation of directions by the class instructor. Academic dishonesty may also include knowingly sharing false information or knowingly misleading another to reach a false answer or conclusion.</p> <p>Students who engage in academic dishonesty must either complete the invalidated summative assessment or an alternative assessment chosen by staff. Discipline may include detention; prohibiting the student from participating in school-sponsored activities or events; denial or revocation of school-conferred titles, distinctions, honors, or privileges; or suspension or expulsion.</p>
<p>Behavior Interventions</p>	<p>All students need to come to class with supplies and ready to work. Students are also expected to show respect to the teacher and fellow students.</p>