



LISLE HIGH SCHOOL

1800 Short Street
Lisle, Illinois 60532



Introduction to Engineering

Course Teacher Contact Information

| Teacher | Email | Phone Number |
|----------------|-----------------------|--------------|
| Darius Bamboat | dbamboat@lisle202.org | 630-493-8368 |

DEPARTMENT MISSION

The mission of Career and Technical Education (CTE) is to provide college and career readiness instruction through a dynamic, hands-on curriculum, providing students the education and skills necessary to prepare them for a specific college major and/or career. Students will acquire the ability to work independently, as part of a team, and think creatively to solve problems.

COURSE DESCRIPTION

Engineering is a 21st Century skill set that is in high demand in today's job market. There is a skills gap that needs to be filled. A strong understanding of STEM (Science, Technology, Engineering, and Math) will put students at an advantage for college and career readiness. In this course we will study several different engineering disciplines: Mechanical, Electrical, Computer, Construction, Civil, and Industrial Engineering. Each engineering unit will provide a background of the type of Engineering and the skills that are needed to be successful in a freshmen/sophomore level class in a college/technical school or for a future career.

COURSE LEARNING STANDARDS (Standards for Technological Literacy)

Standard 1: Students will develop an understanding of the characteristics and scope of technology.

Standard 2: Students will develop an understanding of the core concepts of technology.

Standard 3: Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Standard 8: Students will develop an understanding of the attributes of design.

Standard 9: Students will develop an understanding of engineering design.

Standard 10: Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Standard 11: Students will develop abilities to apply the design process.

Standard 12: Students will develop abilities to use and maintain technological products and systems.

Standard 13: Students will develop abilities to assess the impact of products and systems.

Standard 17: Students will develop an understanding of and be able to select and use information and communication technologies.

Standard 19: Students will develop an understanding of and be able to select and use manufacturing technologies.

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COURSE GRADING POLICY

| | | |
|----------------------|--------------------------|--------------------------|
| COURSE GRADE | 20% Formative Assessment | 80% Summative Assessment |
| FINAL SEMESTER GRADE | 80% Course Grade | 20% Semester Final Exam |

- Standards are clearly communicated to students with clear indicators of proficiency and exemplars.
- If a student is absent from class, an incomplete will be the placeholder until the deadline.
- If a student does no work on the task/assignment, the teacher will assign a zero.
- Formative assessments will be given throughout the unit in preparation for summative assessments.
- Students are expected to take steps to correct errors of knowledge, understanding, or skills.

FINAL EXAM POLICY

This course includes a final exam worth 20% of your semester grade. All students take the midterm and final exam.

LATE WORK POLICY

It is the student's responsibility to ask what was missed during illness or absence. If a student is leaving for a period of time, they should contact the classroom teacher a week prior to request makeup work BEFORE said absence.

COMMUNICATION WITH COURSE TEACHER(S)

- Teachers make every effort to respond to emails and phone calls within 48 hours during the workweek.
- The best way to communicate with me is through email; however, if you have not received a response in 48 hours, please resend the email or call voicemail. Your email may have gone into the spam folder.

REASSESSMENT POLICY

Summative quizzes can be re-taken for a potentially higher grade (up to 85%). In order to reassess, all chapter homework must be completed, a reassessment request must be submitted, and a reassessment assignment must be completed. Also, the retake must take place within two weeks of when the original quiz was returned. Students will earn their best score on the reassessment, with a maximum replacement score of 85% on all reassessments.

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OTHER SUPPORT

STUDENT HELP

- Please make an appointment with your teacher before or after school, and not during class time, if you are concerned with your grade.
- Your grade is YOUR responsibility. Please keep tabs on it.

PARENTS/GUARDIANS

- Parents should actively check PowerSchool for their student's grade.
- It is the student's responsibility to ask for help when needed.
- The grades on PowerSchool will be accurate only at Quarter and Semester. Prior to those dates, the grade reflected is fluid.
- Please ask your student about their school work.
- Check with your individual teacher for classroom procedures, schedules, and daily class news.

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