

COURSE: Engineering 100
Introduction to Engineering and Design

TIME: TTH 9:30 – 11:20AM

INSTRUCTOR: Eleanor (Ellie) Christensen
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OFFICE HOURS: TBA

COURSE

DESCRIPTION: This course introduces students to the engineering profession and to the engineering design process. The class uses an active learning environment. Group and team activities are used to help students learn how to become creative problem solvers. Communication skills and teamwork techniques are developed in a positive and supportive environment. The class also includes guest speakers, use of journals, and poster presentations and sketching.

COURSE

OBJECTIVES: A student should be able to:

- Understand the engineering design process
- Utilize effective techniques to define problems, gather information, analyze data, perform critical evaluations, implement solutions and communicate the results
- Understand how group functions and how individual differences contribute produce dynamic and creative solutions
- Learn to participate and function in team roles such as team leader, recorder, reporter, reflector and explorer
- Recognize and learn techniques to develop creativity in themselves and others.
- Recognize and learn strategies to improve team and group performance.
- Utilize journals for personal and team record keeping
- Improve and utilize techniques to communicate technical solutions using posters, oral presentations and overhead transparencies
- Develop support systems and networking skills
- Learn about the engineering profession
- Plan two year class schedule
- Use legos in designing robots and robotic devises

EQUIPMENT: Journal (4x4 Quadrille notebook, in bookstore)

GRADES: DECIMAL GRADES (4.0-0.7) will be assigned in the following manner:

Team	50%
Individual journal	30%
Team participation	20%

Any student who registers for this course and stops attending class will receive one of the following grades:

"V" For a student who does not officially withdraw from the class--
computed as a 0.0 G.P.A.

"Z" For a student who does satisfactory work prior to officially
withdrawing from this class. This is a hardship grade and no
credit is received for the course. Not used in computing
G.P.A. A written request is required for this grade.

"W" For a student who officially withdraws from the class---
Deadline: May 11, 2009.

**PLAGIARISM
& CHEATING:**

Cheating is defined as the use of unauthorized help on tests or homework.
Cheating or plagiarism will result in a "0" grade for each infraction. I
encourage you to work together but please do not copy work.

DISABILITY:

Students with disabilities who believe that they may need accommodations in
this class are encouraged to contact the Office of Special Services, FOSS
building, room 5229, as soon as possible to ensure that such accommodations
are implemented in a timely manner. OSS can also be reached at (206-546-
4545).

WEATHER:

During inclement weather conditions, stay tuned to local radio and television
stations for school closure information---KOMO, KIRO, (SchoolReports.org).
Also check Shoreline's web site.

HOLIDAYS:

May 25th Memorial Day Holiday

**LAST DAY
OF CLASS:**

June 8th (M)

PREP DAY:

June 9th (T)

FINAL EXAM:

June 11th (TH) 8:45 - 10:15AM