

ENGR 120: Introduction to Engineering

Spring Semester 2010
ISU College of Engineering
M W 9:00 – 9:50 am
Pocatello – LIBR 36, Idaho Falls – CHE 313

Course Description: Introduction to engineering problem solving, engineering design, analysis of contemporary, societal issues and methods of presenting engineering information. Design project and/or presentations of current engineering challenges.
Required course (2 credits).

Course Coordinator:

Mary M. Hofle – Mechanical Engineering
Colonial Hall #25
Phone: 282-3148
Email: hoflmary@isu.edu

Faculty Representatives:

Dan Tappan – Computer Science
tappdan@isu.edu

Chikashi Sato – Civil Engineering
satochik@isu.edu

Hossein Mousavinezhad – Electrical Engineering
mousseye@isu.edu

George Imel – Nuclear Engineering
gimel@isu.edu

Textbook: NA

Course Goals:

This course is meant to be an introduction to engineering. Students will learn about the different engineering disciplines, the design process, communication techniques, planning and organization, ethics and professionalism, contemporary issues in engineering, and the importance of life long learning.

After taking this course the students will have achieved the goals listed below.

1. Gain an understanding of the engineering profession and what it means to be an engineer, engineering challenges, and career opportunities.
2. Gain experience in solving engineering problems and understand the impact of the solution.
3. Improve communication skills.

Computer Tools:

The use of Microsoft Word , Excel, and a calculator will be required for this course.

Grading: Your grade will be based on the following:

Homework – 70% (Assigned homework, speaker summaries, reports, etc for each unit)

Class attendance and participation – 30%

(Tentative Course Outline)

Week	Dates	Topics	Lecture Responsibilities
1	Jan 11, 13	Introduction Mechanical Engineering (ME)	Mary Hofle – Design Process
2	Jan 18, 20	ME	No Class Monday, Jan. 18 th
3	Jan 25, 27	ME	
4	Feb 1, 3	Civil Engineering (CE)	Chikashi Sato - Communication
5	Feb 8, 10	CE	
6	Feb 15, 17	CE	No Class Monday, Feb. 15 th
7	Feb 22, 24	Nuclear Engineering (NE)	George Imel – Contemporary Issues
8	Mar 1, 3	NE	
9	Mar 8, 10	NE	
10	Mar 15, 17	Computer Science (CS)	Ken Bosworth – Ethics
11	Mar 22, 24	Spring Break	No Class
12	Mar 29, 31	CS	
13	Apr 5, 7	CS	
14	Apr 12, 14	Electrical Engineering	Hossein Mousavinezhad-Life Long Learning
15	Apr 19, 21	EE	
16	Apr 26, 28	EE	
17	May 3, 5	Finals Week	No final/No class

Note: Instructor reserves the right to change the schedule as deemed necessary.

Course Requirements:

1. **Any form of cheating on individual homework assignments, papers, or reports will result in an F for the course.** This includes looking at another person's exam or copying another person's work for projects or homework..
2. Homework assignments will be due at the beginning of the class period on the date assigned.
3. **Late homework** assignments will **not** be accepted.
4. Assignments should be done on engineering (green) paper (white lined paper is allowed) or word processed. The format specified in class must be followed.
5. **No cell phones** or any other communication devices in class. If you own such a device, you must turn it off during the duration of the class.
6. Attendance, good attitude, and class participation are all part of your grade. Please come prepared to class.
7. The instructor reserves the right to modify the course outline and policies mentioned in this syllabus at any time during the semester.

8. Students will be expected to participate in class discussions. Students will further be encouraged to read material from magazines and journals so as to obtain current information in their chosen field of engineering.

Students with Disability:

Our program is committed to all students achieving their potential. If you have a disability or think you have a disability (physical, learning disability, hearing, vision, psychiatric), which may need a reasonable accommodation, please contact the ADA Disabilities & Resource Center located in Graveley Hall, Room 123, 282-3599 as early as possible.

Conduct:

For guidance on student conduct and definitions of various academic terms please see the student reference handbook: <http://www.isu.edu/references/st.handbook/conduct.html#CONDUCT>