

EGR 110 – Introduction to Engineering – Fall 2018

Credits: 2
Schedule/Room: MWF 9:15a – 10:10a or TuTh 12:55p – 2:20p in Shiley Hall 110
Instructor: DR. AZIZ INAN 215 Shiley Hall
ainan@up.edu (503) 943-7429
Office Hours: see Moodle
My Calendar: available in Office 365

Lab Coordinator: Allen Hansen, x8626, hansena@up.edu, Shiley 122. Hours: see outside Shiley 110 for posted office hours and project assistant hours.

Project Assistants: Upper-class students work in Shiley 110 to dispense materials and tools. They are also available as mentors, who can help advise you on your project.

Website: <https://sites.up.edu/egr110/> and <https://learning.up.edu/> for access to the Moodle site.

Textbook: The Pocket Cengage Handbook, 7th edition, Kirszner and Mandell, Cengage Learning, 2017.

Reading: Shiley School of Engineering *Writing for Engineers* and *Student Handbook*, as well as various assigned readings.

Course Objectives: At the end of the semester students will:

- Have an understanding of the engineering profession, the different functions and branches of engineering, the role of an engineer in society, and the purpose and form of engineering education.
- Have learned and practiced the steps of innovative engineering design.
- Know how to organize, schedule and complete an engineering design project.
- Have an understanding of engineering and computer science degree requirements and ability to monitor one's own degree progress.
- Have learned and practiced communication of relevant information in written, oral, graphical and sketched form.

UP Bulletin Description: EGR 110 Introduction to Engineering — 2 cr. hrs. An introductory exploration of engineering focused on a design project and several hands-on skills development labs covering a wide variety of engineering disciplines. Individual sections may cover additional topics including ethics, technical communication, and teamwork. Fee: \$80

COURSE DELIVERABLES AND ASSESSMENT

Requirements and Grading:

<u>70%</u>	<u>Project & Labs</u>
	Research Paper (10%)
	Project Plan (5%)
	Design Report Part 1 (10%)
	Design Report Part 2 (10%)
	Presentation/Video (15%)
	Attendance at Labs and Post-Labs (10%)
	Advanced Projects (10%)
<u>10%</u>	<u>Professionalism</u>
	Teamwork Assessment
	Professional Behavior, etc.
<u>20%</u>	<u>Other Homework and In-Class Assignments</u>
	First Day Survey
	EGR 001 Attendance and Participation
	Essays
	Homework
	Participation in Discussion
	Advising Scavenger Hunt

Tentatively, grades will be distributed according to the following scale:

A to A-	B+ to B-	C+ to C-	D+ to D-	F
100 to 90	89 to 80	79 to 70	69 to 60	< 60

Course Topics, Meeting Locations, and Due Dates: See accompanying course schedule for a list of due dates for assignments, which is also available on Moodle.

COURSE POLICIES

Late Assignments: Late assignments will lose 10% of possible credit per day for up to five days, after which it will not be accepted.

Cell Phone Use: Cell phone use is prohibited during class and lab times.

Quiz Policy: Some class sessions may include quizzes. There are no make-up quizzes and no credit for missed quizzes. There are no midterm exams and there is no final exam.

Attendance: Attendance in class is required, as well as at labs scheduled during class time. Some afternoon, evening and weekend sessions may be required.

Reading/Video Assignments: You are expected to complete reading and video assignments *before* the class period. These assignments will be covered on occasional quizzes.

Equipment Return: Certain tools and equipment are to be returned at the end of the semester. If you, or your team, does not return items, the penalty could be severe including failing the course.

Teamwork: Teamwork is expected in this course. Teams are encouraged to consult with Group Process Assistants, located in Buckley Center 163. Group Process Assistants provide help to groups to systematically think about their social, task, and procedural needs.

University of Portland's Code of Academic Integrity: Academic integrity is openness and honesty in all scholarly endeavors. The University of Portland is a scholarly community dedicated to the discovery, investigation, and dissemination of truth, and to the development of the whole person. Membership in this community is a privilege, requiring each person to practice academic integrity at its highest level, while expecting and promoting the same in others. Breaches of academic integrity will not be tolerated and will be addressed by the community with all due gravity.

Assessment Disclosure Statement: Student work products for this course may be used by the University for educational quality assurance purposes.

Accessibility Statement: The University of Portland endeavors to make its courses and services fully accessible to all students. Students are encouraged to discuss with their instructors what might be most helpful in enabling them to meet the learning goals of the course. Students who experience a disability are also encouraged to use the services of the Office for Accessible Education Services (AES), located in the Shepard Academic Resource Center (503-943-8985). If you have an AES Accommodation Plan, you should make an appointment to meet with your faculty member to discuss how to implement your plan in this class. Requests for alternate location for exams and/or extended exam time should, where possible, be made two weeks in advance of an exam, and must be made at least one week in advance of an exam. Also, you should meet with your faculty member to discuss emergency medical information or how best to ensure your safe evacuation from the building in case of fire or other emergency.

Mental Health Statement: As a college student, you may sometimes experience problems with your mental health that interfere with academic experiences and negatively impact daily life. If you or someone you know experiences mental health challenges at UP, please contact the University of Portland Health and Counseling Center in Orrico Hall (down the hill from Franz Hall and Mehling Hall) at www.up.edu/healthcenter or at 503-943-7134. Their services are free and confidential, and if necessary they can provide same day appointments. In addition, they make after-hours phone counseling available if you call 503-943-7134 and press 3 outside of business hours. Also know that the University of Portland Public Safety Department (503-943-4444) has personnel trained to respond sensitively to mental health emergencies at all hours. Remember that getting help is

a smart and courageous thing to do – for yourself, for those you care about, and for those who care about you.

Non-Violence Statement: The University of Portland is committed to fostering a community free from all forms of violence in which all members feel safe and respected. Violence of any kind, and in particular acts of power-based personal violence, are inconsistent with our mission. Together, we take a stand against violence. Join us in learning more about campus and community resources and reporting options, along with our prevention strategy, Green Dot on our Community Against Violence website, www.up.edu/cav.

Ethics of Information: The University of Portland is a community dedicated to the investigation and discovery of processes for thinking ethically and encouraging the development of ethical reasoning in the formation of the whole person. Using information ethically, as an element in open and honest scholarly endeavors, involves moral reasoning to determine the right way to access, create, distribute, and employ information including: considerations of intellectual property rights, fair use, information bias, censorship, and privacy. More information can be found in the Clark Library's guide to the Ethical Use of Information at libguides.up.edu/ethicaluse.

The Learning Commons: The Learning Commons, located in Buckley Center 163, offers a variety of peer tutoring programs that facilitate your active learning and mastery of skills and knowledge. For questions about the Learning Commons, please send all correspondence to Jeffrey White, Administrator, at white@up.edu. The Learning Commons is a program of the Shepard Academic Resource Center. **Math Resource Center:** Monday through Thursday, 6:00 p.m. through 9:00 p.m. during the first week of classes. Regular shifts begin the Sunday after the first week. For a course-specific schedule visit www.up.edu/learningcommons, or the reception desk in BC 163. **Writing Assistance:** Start brainstorming ideas for your paper with a Writing Assistant. Visit www.up.edu/learningcommons to access our Writing Center schedule. **The Language Studio:** Contact the language assistance hotlines to schedule a time to meet throughout the semester at chinesetutor@up.edu, frenchtutor@up.edu, germantutor@up.edu, or spanishtutor@up.edu. **Natural Sciences Center:** Send your tutoring requests to biotutor@up.edu, chemtutor@up.edu, or physicstutor@up.edu. **Speech & Presentation Lab:** Improve your presentations by requesting an appointment at speech@up.edu. **Group Work Lab:** Make an appointment for your group project at groupwork@up.edu. **Nursing Tutoring:** Our peer tutors for pathophysiology will begin providing peer support in BC 163 during the first week of classes to help you start the semester on the right path. Tutoring is available on a walk-in or appointment basis. Up-to-date schedule information is at www.up.edu/learningcommons/nursing. **Economics and Business Tutoring:** For support in economics, OTM, finance, accounting, and business law courses, send requests for appointments to your discipline's tutor email hotline: econtutor@up.edu, otmtutor@up.edu, financetutor@up.edu, accountingtutor@up.edu, or bizlaw@up.edu. **Learning Assistance Counselor:** Learning assistance counseling is also available in BC 163. The counselor teaches learning strategies and skills that enable students to become more successful in their studies and future professions. The counselor provides strategies to assist students with reading and comprehension, note-taking and study, time management, test-taking, and learning and remembering. Appointments can be made in the on-line scheduler available to all students in Moodle or during posted drop-in hours.