

East Los Angeles College
Engineering and Technologies Department
General Engineering - 101
Introduction to Science, Engineering and Technology



Los Angeles River Restoration Plans

Course Description: This course provides students with an understanding of the academic and professional behaviors and skills necessary to enhance their chances of success as an engineering major, and ultimately as a professional. The skills include working effectively in teams, goal setting, time management, and developing oral communication skills. Students are introduced to the campus resources available to the engineering majors. Students have an opportunity to work collaboratively with their classmates on most of the assignments and in-class design projects.

Course Objectives: Provide students with an understanding of the academic and professional behaviors and skills necessary to enhance their chances of success as an engineering major, and ultimately as a professional. The skills include working effectively in teams, goal setting, time management, and developing oral communication skills. Students are also introduced to the campus resources available to engineering majors.

Course: GE 101

Section: 3459

Time: 6:50 PM - 10:00 PM (Tuesdays)

Location: E7-106

Textbook:

- Studying Engineering, A Road Map to a Rewarding Career. 4th Edition
- Discovery Press, Raymond B. Landis
- ISBN-13: 978-0-9793487-4-7

Instructor(s): Professor & Chair: JC Ramirez; Office Hours: T 4-6:30 pm, MW 2:30 pm-3:30pm, Rm E7-104
Assistant Professor: Dr. Humberto Gallegos; Office Hours: TTh 10-1045 pm, Th 1230-230 pm, W 345-545 pm, F 105-145 pm, Rm E7-104

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Grading:	Journal/Taking Notes/Chapter Note	15%
	Homework/In Class Assignments	10%
	PowerPoint Presentation – Engineering Disciplines	20%
	Academic Advisement/Educational Plan	15%
	Projects	15%
	Final Examination	25%

Final Examination: Tuesday June 3rd, 2014 (3:10 – 6:20pm). Open book & notes. **All students are required to take final examination.**

Grade Distribution: A 90% - 100% B 75% - 89.9% C 60% - 74.9% D 50% - 59.9% F Under 50%

- Notes:**
1. **No late work is accepted**
 2. **Final Examination will include chapters 1 through 6.**
 3. **Register for moodle account**

Academic Calendar Link http://www.elac.edu/academic/calendar_spring2014.htm

HOLIDAYS:

President Day, February 14-17 (Friday-Monday)
Cesar Chavez Day, March 31 (Monday)
Spring Vacation, April 7- April 13 (Monday-Sunday)
Memorial Day, May 26 (Monday)

IMPORTANT DATES:

February 21 (Friday) last day to add classes
February 23 (Sunday) last day to drop classes without having to pay fees & last day to drop without class appearing on transcript
May 11 (Sunday) last day to drop classes with a grade of 'W'
May 27 (Tuesday) Non Instructional Day
Finals Examinations June 3 – June 9 (Tuesday-Monday)

Course Learning Outcomes:

- a) Identify and distinguish between different fields of engineering by researching information about them and further select one of them as a career.
- b) Identify effective methods to study engineering and demonstrate it in a team setting.
- c) Demonstrate the knowledge of preparing an educational plan.
- d) Understand the importance of ethnics in engineering.
- e) Employ campus resources such as; library, career center, learning center, counseling and financial aid to succeed in their educational journey in engineering transfer program.

Student Policies in East Los Angeles College General Catalog: Sexual Harassment & Standards of Conduct

Schedule of Classes & Student Services Handbook Spring 2014:
Page 6 East Los Angeles College Policy on Academic Honesty
Page 10 East Los Angeles College Attendance Policies

Students with disabilities who need reasonable accommodation should promptly alert the instructor, then provide verification of disability to the Disabled Students Program located in E1-106 or call 323-265-8787 to make an appointment. If a student with a disability feels that accommodations offered are inappropriate or insufficient, s/he should seek the assistance of the DSP&S Coordinator and/or the Vice President of Student Services.

Attendance:

It is highly recommended you attend all class lectures. Please notify instructor ahead of time when you plan to miss class. Highly recommend you plan ahead if work schedule and/or personal responsibilities at home do not allow for you to attend more than two class sessions. Instructor will try his best to make accommodations.

Participation:

Please participate. This is a form of communication which will help foster good skill sets in engineering as you continue on in your academic and professional careers. In fact, when you participate in class collaborations and/or challenge the lecture topics you help empower the instructor by enhancing his teaching skill sets too. In fact, a prerequisite to having FUN in this class is COMMUNICATION.

Notebooks:

Please purchase a three ring binder and dividers to catalogue course work completed and lecture notes. This is a form of QUALITY CONTROL which will benefit you professionally as you develop your skills towards becoming a good engineer. In fact, you will be surprised how many times one refers to his/her notes while working as a professional engineer and/or studying for the Engineer in Training (EIT) and the Professional Engineer (PE) exam or the Land Surveyor in Training (LSIT) and the Professional Land Surveyors (PLS) examination.

Assignments:

Several in class, homework and field assignments will be handed out during the semester. It is imperative that you attend all class sessions to determine assigned tasks, participate in class discussions, and to work in group assignments. Some assignments will be group effort. If this is the case, all names should be recorded on the assignments. Only one assignment is required for submittal.

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Quizzes:

Information as to what the quizzes will entail will be given out prior to quiz date.

Field Assignment:

To challenge the class, and to add practical value to this course, field assignments will be assigned to each student to complete. Field assignment criteria will be given out during class with ample time to complete.

Final Project:

You will be expected to produce a small technical report and presentation. Project will be tailored towards student's passions in the field of engineering or assigned by the instructor. This is an open ended assignment and therefore students can write and present on any type of topics as long as it pertains to their respective engineering fields and/or the assigned topic. A two page minimum report will be required for submission, double spaced, with a reference listing if required. Presentation will also be required. Please dress appropriately. Business attire recommended. Finally, I have realized that not all group team members are chosen at will. Sometimes the instructor chooses who you will be working with. If drama arises in which you feel you are not being heard then welcome to the real world of engineering business practices. But, keep in mind this is a time for you to evolve and adjust your own attitudes while focusing in getting the project assigned completed on time and with awesome quality work. Sometimes you can only control your own attitudes and not those of your team members. Work through these issues in a smart, gentle, merciful way. At the end, your team will be presenting the work while trying to persuade the audience that your design is the way to go. Keep that in mind at all times, that is, you are still a TEAM. Show that during the presentation. Nobody said the team is perfect.

Scheduled Topics*:

1. Keys to Success in Engineering Study
2. The Engineering Profession
3. Understanding the Teaching / Learning Process
4. Making the Most of How You are Taught
5. Making the Learning Process Work for You
6. Personal Growth and Student Development
7. Broadening Your Education
8. Orientation to Engineering Education

*** depending on schedule, some field trips and guest speakers will be scheduled in advance.**