



## **ENG GEN 101 – Introduction to Science, Engineering and Technology – Syllabus**

Spring 2025 (February 10 – June 9)

Section #: 14111 LEC

(10:00 AM to 12:05 PM on Saturdays) Room:CMS 021

Prerequisite: None

### **Course Description:**

This course introduces students to the field of engineering and presents skills necessary to succeed as engineers. The different branches/disciplines of engineering and the nature of engineering work are explored. Also, as part of the preparation for an engineering career, the steps needed to achieve that goal starting with engineering school curriculum, job searching techniques and interview preparation will be discussed to equip students with the basic knowledge to succeed in their endeavor of becoming an engineer. Communication skills for technical presentations and reports are developed through practical engineering scenarios and class projects.

### **Student Learning Outcomes:**

Upon completion of the course, the student should be able to:

- 1) Apply systematic method to solving an engineering problem.
- 2) Identify engineering fields of interest and develop a plan that will lead to career success in an engineering field.
- 3) Understand the differences between the major disciplines within engineering and know what area of engineering he/she might consider as a major to study engineering.
- 4) Design and construct a solution to a problem using engineering design process.
- 5) Develop both verbal and written communication skills for presenting technical information.
- 6) Demonstrate technical report writing techniques and presentation skills.

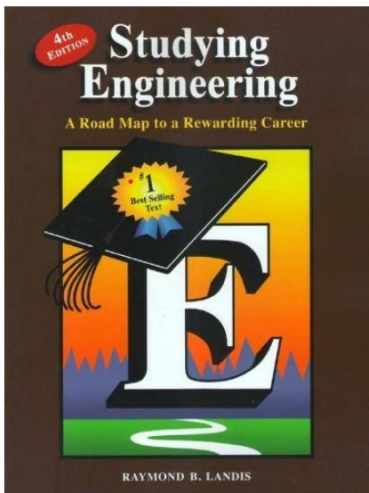
**Instructor:** A. Anwar – Use canvas internal message system to send me an email and I will respond by the next day. If for some reason, you are unable to access canvas, then as a last resort, you may send email me to my school email.

**Email:**[anwara@lamission.edu](mailto:anwara@lamission.edu)

**Website:** <http://www.lamission.edu/~anwara>

**Office Hours:** Instructor will be available to answer any questions you might have about the course material or assignments via email or during the scheduled office hours. The office hours will be held immediately after class from 12:00 to 12:30 PM on Saturdays.

**Textbook:** Studying Engineering: “A Road Map to a Rewarding Career”  
Author: Raymond B. Landis, 4<sup>th</sup> Edition  
Publisher: Discovery Press, Los Angeles, California  
ISBN 978-0979348747



**LA Mission College Bookstore:** <https://eagleslanding.lamission.edu>

**Grading:** Each student’s grade will be calculated as follows:

- 10% - Weekly Homework Assignments (Six H.W Assignments Total)
- 10% - Personal Statement
- 20% - Midterm Exam
- 20% - Project #1 & Presentation
- 10% - Team Discussions & Participation in Class Discussions
- 10% - 4 Year Engineering Plan & Resume
- 20% - Airplane Design Project & Report

**100% Total Grade**

**Gradebook Access:**

To view your grade in the course at any time during the semester, click on the “Grades” in Canvas.

## SPRING 2025 IMPORTANT DATES

February 10, 2025	Instructions begin for Spring 2025
February 23, 2025	Deadline to add using an add permission code
February 23, 2025	Deadline to drop without a “W” notation
May 11, 2025	Deadline to drop with a “W” notation on record

### **Accommodations for DSPS students:**

LAMC students with verified disabilities who are requesting academic accommodations should use the following procedure:

1. Obtain documentation of your disability from a licensed professional. You can use the [LAMC Disability Verification Form](#). Students exiting high school can use their IEP as a qualifying document.
2. Make an appointment with a Disabled Students Programs and Services (DSP&S) Counselor or Specialist to review your documentation and discuss reasonable accommodations. Please call DSP&S at (818) 364-7732 or use the Online Counter Support on the [DSP&S page](#) to schedule an eCounseling appointment.
3. Bring your disability documentation to your DSP&S eCounseling appointment, which will be held through Cranium Café. Be sure to use a laptop or computer with Chrome or Firefox (no smart phones) and a working video camera and microphone.
4. Every semester, you are required to meet with your DSP&S Counselor to review your academic progress and accommodation letter. After meeting with them, your written accommodation agreement will be emailed to your professor(s).

Please complete this process in a timely manner to allow adequate time to provide accommodation. Students who have questions with technology accessing Cranium Café or the webpage should send an email to Online Counter Support for further assistance; contact Adrian Gonzalez at [gonzala@lamission.edu](mailto:gonzala@lamission.edu) or Rachel Povolotsky at [povolor@lamission.edu](mailto:povolor@lamission.edu).

## Management of Stress and Mental Health:

If you, or someone you know is in distress due to pressure of succeeding in school and contending with work, financial issues, relationships, managing time effectively, getting enough sleep, etc., please visit the Student Health Center (SHC), which offers a broad range of confidential student services including counseling and mental health services. The SHC is located in the Administrative Services Building. The SHC webpage is [lamission.edu/healthcenter](http://lamission.edu/healthcenter) and the phone number is 818-362-6182. The National Suicide Prevention Lifeline number is 800-273-8255.

## Student responsibilities:

Students are responsible for being aware of all announcements that are made in class, such as changes in exam dates, due dates of homework, and cancellation of discussion sessions due to instructor's absence. **Students are responsible for announcements made on days that they are absent.**

Students are expected to adhere to all school policies, and to abide by the standards of student conduct as described in the *2024-2025 Los Angeles Mission College Catalog*.

## Resources:

- **Bookstore:** For hours of operation, book availability, buybacks, and other info. Call (818) 364-7798 or 364-7768 or visit <http://eagleslanding.lamission.edu/>
- **Counseling Department:** For appt. and info call (818) 364-7655 or visit <https://www.lamission.edu/counseling/>
- **Extended Opportunity Programs and Services:** For appt. and info. Call (818) 364-7645 or visit <http://www.lamission.edu/eops/>
- **Financial Aid:** For info. & applications call (818) 364-7648 or visit <http://www.lamission.edu/financialaid/>
- **Library:** For info. on library hours, resources, workshops, and other services contact (818) 364-7105 or 364-7106 or <http://www.lamission.edu/library/>
- **Tutoring Services in Learning Center:**  
Laboratories for Learning, Writing, Math & Science. Walk-in and appointment services offered. Call (818) 364-7754 or visit <http://www.lamission.edu/learningcenter/>
- **STEM Program:** For those interested in pursuing a science, technology, engineering and math, please call the STEM counselor at (818) 364-7600 (ext4161) or visit <http://www.lamission.edu/stem/>

## Class Policies:

1. **Attendance:** Attendance for an in-person class is the basis for learning; without good attendance you cannot build the foundation necessary to pass a class.
2. **Withdrawals and Exclusions:** If you fail to login to Canvas and complete the orientation and the expected assignments during the first week of the course, you will be excluded from the course as a NO SHOW. After that, I may still drop you for lack of activity (not logging into Canvas and not submitting assignments). If you wish to drop the class, you must drop the class yourself, *officially*. Failure to do so may result in a grade of "F" in the class. A new state policy in effect as of 2012 limits students to **three attempts per course**. Receiving a grade or a "W" for a course counts as an attempt, **regardless of when the course was taken**. Withdraw by the deadline to avoid a "W". For spring 2025 the deadline to avoid a "W" is **Sunday February 23rd**.
3. **Cell Phone:** No cell phones or other electronic devices will be allowed during exams/or zoom lecture sessions. You may receive an F on an exam if your cell phone or other electronic devices are out during the exam (For in Person Classes).
4. **Standards for Student Conduct:** Dishonesty, such as cheating or knowingly furnishing false information to instructors and college personnel, turning in work that is not one's own will be grounds for disciplinary action at LAMC according to the Standards of Student Conduct as described on the LAMC Catalog. The penalty may range from no credit for the assignment up to an "F" grade and disciplinary action. Students are expected to adhere to all school policies, and to abide by the standards of student conduct as described in the LAMC catalog. Any infringement upon the rights of other students in the class will not be tolerated. Please refer to [LACCD Board Rule 9800](#) for further information.
5. **Communication Policy:** Pay attention to my emails and canvas announcement, which will be my main channel of communication with you. You can use the inbox option in Canvas to communicate with me. I will respond to emails within 24 hours with the exception of weekends and holidays.

## AI Policy:

You may use Generative AI Tools to help you do the work in this class. If you use AI as a tool, explain which AI tool you used, how you used it, what prompts you provided to the AI tool, and what other contributions you made. It is your job to ensure your work meets the standards of the class.

Bottom line:

- you can use AI to help you better understand concepts in the lecture material (no need to report)
- you can use AI to help you write assignments (but you can only use it to HELP you write it; it needs to ultimately be your own work — and you must include how you used AI in your submission)

## **COVID-19 Safety On Campus**

Please read the instructions below carefully in case you need to visit the campus.

### **Check-In Before Arriving**

To keep our students, employees, and visitors safe, LACCD requires all students, employees, and visitors to be assessed for COVID-19 symptoms each day before entering any LACCD campus or facility. Please complete the campus check-In questionnaire using your 'Cleared4' link and obtain your daily pass. Once on campus don't forget to complete the check-in process by scanning your pass at the station set up in the main entrance of CMS building.

### **Wearing Masks on Campus**

In compliance with Health Orders from the Los Angeles County Department of Public Health, the Los Angeles Community College District, Board Policy 2800, approved August 4, 2021, all students, employees and visitors, regardless of vaccination status, shall wear a surgical grade mask or N-series mask (no cloth masks) while inside any District building, classroom, library, gymnasium, facility or other indoor setting. These requirements are in place to fulfill the Board's statutory obligation to protect its students, faculty, employees, and visitors from the risks associated with the spread of infectious diseases, including the spread of the COVID-19 virus and its variants.

If you test positive for COVID19 please follow the up-to-date procedures for Covid19 positive students: [EOC Updated Message January 27 2022.pdf \(laccd.edu\)](#)

For COVID19 updates please visit: [Coronavirus \(laccd.edu\)](#)

**TENTATIVE SCHEDULE**

February 10th thru June 9th- 2025

Meeting	Date	Topic	Assignments	Assignments Due
Week 1	February 22, 2025	Highlights of Syllabus & Chapter 1- Keys to Success in Engineering Study	HW #1	N.A
Week 2	March 1, 2025	Online-Distance Eduaction & Chapter 2-The Engineering Profession	Personal Statement	Homework #1 Due
Week 3	March 8, 2025	Chapter 2- The Engineering Profession (Cont'd) Discussion of Engineering Plan & Engineering Resume	HW #2	N.A
Week 4	March 15, 2025	Chapter 3-Understanding the Teaching-Learning Process Part 1 & 4 Year Engineering Plan Demo & Math to Engineering Relationship Demo	4 Year Engineering Plan & Resume	Homework #2 Due
Week 5	March 22, 2025	Chapter 3-Understanding the Teaching-Learning Process - Part 2 & Project #1 Review and Formation of Teams & Solder Joint Fatigue Presentation	HW #3	Personal Statement Due
Week 6	March 29, 2025	Chapter 4-Making the Most Out of How you are Taught	Project #1	4 Year Engineering Plan & Resume Due
Week 7	April 5, 2025	Chapter 5- Making the Learning Process Work for you	HW #4	Homework #3 Due
<b>Break Week</b>	<b>April 12, 2025</b>	<b>SPRING BREAK</b>	<b>NA</b>	
Week 8	April 19, 2025	<b>Midterm Review &amp; Project Status Discussion (Midterm will be posted on Canvas and a 2 hour time will be given)</b>	HW #5	Homework #4 Due
Week 9	April 26, 2025	Chapter 6-Personal Growth and Development	NA	Midterm
Week 10	May 3, 2025	<b>Project #1 Charts are due &amp; Presentation</b>	HW #6	Homework #5 Due
Week 11	May 10, 2025	Chapter 7-Broadening your Education	NA	Project #1 Charts Due
Week 12	May 17, 2024	Review of Airplane Design Excel Spreadheet	Airplane Design Project	Homework #6 Due
Week 13	May 24, 2024	Chapter 8-What is Engineering - Summary	NA	N.A
Week 14	May 31, 2024	Q & A session for students to ask about Engineering, Course Material & Airplane Design Project	NA	N.A
Week 15	June 7, 2025	<b>Final Report for Airplane Project Due (No late submission)</b>	NA	Airplane Design Project Report Due