



SAINT LOUIS UNIVERSITY  
MADRID

## ESCI 1010 M01: Freshman Engineering I Fall 2017

**Class Days and Time:** M, 17:00-18:50

**Classroom:** PAH-25

**Prerequisite(s):** None

**Credit(s):** TBD

**Instructor:** Hector Barrio

**Instructor's Email:** hector.barrio@slu.edu

**Instructor's Campus Phone:** 680301847

**Office:** PAH Science Faculty Office

**Office Hours:** M, 19:00 – 20:00

### Course Description:

If you are already reading this course syllabus chances are high that you are in your way to becoming a successful engineer, but, do you really know what working as an engineer is? Do you really know what an engineer does, or is supposed to be doing? What thoughts occupy their minds? What are they thinking processes?

This introductory course will attempt to answer these questions and give you a clear, concise and realistic view of the engineering career. This course will also lay the foundation for the most basic engineering tools, both in general productivity tools and in Computer Aided Design specific tools.

**Course Goals and Student Learning Outcomes:** At the end of the course, students will:

- Understand the basic principles of engineering work
- Understand the importance of effective communication in engineering activities and practice written and verbal technical presentations.
- Deduce the consequences of engineering work and its impact in society.
- Apply engineering thought processes to new product development
- Generate 2D views of 3D object by hand drawing
- Generate 3D drawings of basic shapes using PTC-ProEngineer/CREO

Saint Louis University - Madrid Campus is committed to excellent and innovative educational practices. In order to maintain quality academic offerings and to conform to relevant accreditation requirements, the Campus regularly assesses its teaching, services, and programs for evidence of student learning outcomes achievement. For this purpose anonymized representative examples of student work from all courses and programs is kept on file, such as assignments, papers, exams, portfolios, and results from student surveys, focus groups, and reflective exercises. *Thus, copies of student work for this course, including written assignments, in-class exercises, and exams may be kept on file for institutional research, assessment and accreditation purposes.* If students prefer that Saint Louis University - Madrid Campus does not keep their work on file, they need to communicate their decision in writing to the professor.

## Required Texts and Materials:

Engineering Graphics workbook by J. W. Craig and O. B. Craig, SDC is required if you have never taken a technical drawing course.

## Attendance Policy:

Attendance is mandatory to all class sessions. Unjustified absences could result in a lowered grade.

## Course Requirements and Grading Rationale/System:

- Projects 50% (20% Midterm project, 20% Final Project, 10% Ethic Presentation)
- Exams 40% (15% Midterm, 25% Final)
- Class Participation 10%

Participation in class discussions is highly encouraged, positive additions that helps understand the topic and/or arising alternative views will be welcome. Engineering is partly based in accumulation of knowledge and the only way for this to happen is sharing your thoughts with others.

Two projects will be completed by the students, one individual engineering problem and a final group project.

There will be one midterm exam and one final exam covering the full content of the course.

Late submissions will be penalized with an automatic 15% grade reduction.

The letter grading scale will be the following:

<b>A</b>	<b>90-100%</b>
<b>A-</b>	<b>87-89%</b>
<b>B+</b>	<b>84-86%</b>
<b>B</b>	<b>80-83%</b>
<b>B-</b>	<b>77-79%</b>
<b>C+</b>	<b>74-76%</b>
<b>C</b>	<b>70-73%</b>
<b>C-</b>	<b>66-69%</b>
<b>D</b>	<b>60-65%</b>
<b>F</b>	<b>&lt; 60%</b>

**E-mail:** Campus and course announcements will often be handled by e-mail. Students should check their "@slu.edu" e-mail regularly.

**University Statement on Academic Integrity:** Academic integrity is honest, truthful and responsible conduct in all academic endeavors. The mission of Saint Louis University is "the pursuit of truth for the greater glory of God and for the service of humanity." Accordingly, all acts of falsehood demean and compromise the corporate endeavors of teaching, research, health care and community service via which SLU embodies its mission. The University strives to prepare students for lives of personal and professional integrity, and therefore regards all breaches of academic integrity as matters of serious concern.

The governing University-level Academic Integrity Policy can be accessed on the Provost's Office [website](#) at:. Additionally, SLU-Madrid has posted its academic integrity policy online: <http://www.slu.edu/madrid/academics>. As a member of the University community, you are expected to know and abide by these policies, which detail definitions of violations, processes for reporting violations, sanctions and appeals.

The professor will review these matters during the first weeks of the term. Please direct questions about any facet of

academic integrity to your faculty, the chair of the department of your academic program or the Academic Dean of the Madrid Campus.

**University Title IX Statement:** Saint Louis University and its faculty are committed to supporting our students and seeking an environment that is free of bias, discrimination, and harassment. If you have encountered any form of sexual misconduct (e.g. sexual assault, sexual harassment, stalking, domestic or dating violence), we encourage you to report this to the University. If you speak with a faculty member about an incident of misconduct, that faculty member must notify SLU's Title IX deputy coordinator, Marta Maruri, whose office is located on the ground floor of Padre Rubio Hall, Avenida del Valle, 28 (mmaruri@slu.edu; 915-54-5858, ext. 213) and share the basic fact of your experience with her. The Title IX deputy coordinator will then be available to assist you in understanding all of your options and in connecting you with all possible resources on and off campus.

If you wish to speak with a confidential source, you may contact the counselors at the SLU-Madrid's Counseling Services on the third floor of San Ignacio Hall (counselingcenter-madrid@slu.edu; 915-54-5858, ext. 230) or Sinews Multiplettherapy Institute, the off-campus provider of counseling services for SLU-Madrid (www.sinews.es; 917-00-1979). To view SLU-Madrid's sexual misconduct policy and for resources, please visit the following web address: <http://www.slu.edu/Documents/Madrid/campus-life/SLUMadridSexualMisconductPolicy.pdf>.

**Students with Special Needs:** In recognition that people learn in a variety of ways and that learning is influenced by multiple factors (e.g., prior experience, study skills, learning disability), resources to support student success are available on campus. Students who think they might benefit from these resources can find out more about:

- Course-level support (e.g., faculty member, departmental resources, etc.) by asking your course instructor.
- University-level support (e.g., tutoring/writing services, Disability Services) by visiting the Academic Dean's Office (San Ignacio Hall) or by going to <http://www.slu.edu/madrid/learning-resources>.

Students with a documented disability who wish to request academic accommodations must contact Disability Services to discuss accommodation requests and eligibility requirements. Once successfully registered, the student also must notify the course instructor that they wish to access accommodations in the course. Please contact Disability Services at disabilityservices-madrid@slu.edu or +915 54 58 58, ext. 230 for an appointment. Confidentiality will be observed in all inquiries. Once approved, information about the student's eligibility for academic accommodations will be shared with course instructors via email from Disability Services. For more information about academic accommodations, see "Student Resources" on the SLU-Madrid webpage.

Note: Students who do not have a documented disability but who think they may have one are encouraged to contact Disability Services.

**Fall 2017 Course Schedule:**

Monday, September 4	Introduction to Engineering
Monday, September 11	Intro to Engineering Continued
Sunday, September 17	Last Day to Drop a Class Without a Grade of W and /or Add a Class, choose Audit (AU) or Satisfactory/Unsatisfactory (S/U) Options
Monday, September 18	Technical Drawing
Monday, September 25	Communication Skills
Monday, October 2	Technical Reporting and Technical Research – Ethics Case introduction
Monday, October 9	Ethics Case Discussion
Thursday, October 12	Fall Break
Friday, October 13	
Saturday, October 14	
Sunday, October 15	
Monday, October 16	Midterm Project and Test
Thursday, October 19	Midterm Grades Due.
Monday, October 23	Computer Assisted Drawing (PTC-CREO)
Monday, October 30	

	Last Day to Drop a Class and Receive the Grade of W. Computer Assisted Drawing (PTC-CREO)
Wednesday, November 1	University Closed
Thursday, November 2	Spring Registration Opens!
Monday, November 6	Computer Assisted Drawing (PTC-CREO)
Thursday, November 9	University Closed
Monday, November 13	Computer Assisted Drawing (PTC-CREO)
Monday, November 20	Aerospace/Mechanical/Biomedical Engineering orientation
Monday, November 27	Computer Assisted Drawing (PTC-CREO)
Monday, December 4	Computer Assisted Drawing (PTC-CREO)
Wednesday, December 6	University Closed
Friday, December 8	University Closed
Monday, December 11	Engineering methods and trends
Thursday, December 14	Final Exam – Day 1
Friday, December 15	Final Exam – Day 2
Monday, December 18	Final Exam – Day 3 Midyear Commencement!
Tuesday, December 19	Final Exam – Day 4
Wednesday, December 20	Final Exam – Day 5
Saturday, December 23	Grades Due to Registrar

#### FINAL EXAM SCHEDULE

	14 Dec (Th)	15 Dec (Fr)	18 Dec (Mn)	19 Dec (Tu)	20 Dec (Wd)
<b>08:30-11:30</b>	Mn classes that meet at 9:00 & 9:30	Mn classes that meet at 10:00	Mn classes that meet at 11:00 & 11:30	Tu classes that meet at 9:30 & 10:00	Tu classes that meet at 8:00
<b>12:00-15:00</b>	Tu classes that meet at 11:00	Mn classes that meet at 13:00	Tu classes that meet at 14:30	Mn classes that meet at 12:00	Tu classes that meet at 12:30
<b>15:30-18:30</b>	Mn classes that meet at 14:30	Tu classes that meet at 17:00 & 17:30	Mn classes that meet at 16:00	Tu classes that meet at 15:30 & 16:00	Mn classes that meet at 17:30
<b>19:00-22:00</b>	---	---	Mn classes that meet at 19:00	Tu classes that meet at 19:00	---