

ET-100: Introduction to Engineering Technology

Fall 2009

I. Course details:

Class hours: T,Th 3:00 pm – 4:15 pm

Class number: 3357

Class room: DVIC-210

Prerequisites: None

Text book: Robert J. Pond and Jeffrey L. Rankinen, *Introduction to Engineering Technology*, Pearson/Prentice Hall, 7th ed., 2009 + *Additional notes*

Reference books:

(1) W.C. Oakes, et al., *Engineering your future: a comprehensive introduction to engineering*, Great Lakes Press, 2006

(2) V.D. Hawks and A.B. Strong, *Introduction to engineering technology and engineering*, Prentice Hall, 2000

II. Instructor: Dr. Cris Koutsougeras

Office: Fayard Hall, Room 307C

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WWW: <http://www2.selu.edu/Academics/Faculty/ck>

Office hours: T,Th 2:00 pm – 3:00 pm, or by appointment

III. Course Description:

Introduction to a broad range of engineering technology topics and fields, such as mechanical design, engineering materials, machining, computers and programming, data analyzing and graphing, robotics and process control, and communications. Discussion includes the roles, duties and responsibilities, fundamental skills and knowledge required in the various careers in the industry. Discussion on Engineering Technology as a profession, professional ethics, professionalism, and social responsibility. Seminars on topics of special interest to engineering technologists will also be included.

IV. Course Objectives:

1. To provide students with an understanding of engineering technology as a career.
2. To provide students an introduction to the roles, duties and responsibilities, fundamental skills and knowledge required in engineering technology careers in the modern industry.
3. To familiarize students with the major tools and techniques utilized by engineering technologists, such as the calculator and personal computer, programming, data analysis and graphing.
4. To provide students with an awareness of the importance of professional ethics and professionalism.
5. To provide students opportunities in written and oral technical communications on topics from engineering technologies.
6. To provide students opportunities and facilities for class projects in engineering technology-related topics, e.g., robotics and energy technologies, and
7. To provide students with an introduction to a broad range of engineering technology topics, such as mechanical design, engineering materials, robotics and process control.

V. Topics To Be Covered:

Engineering technology as a career (Chapter 1)

Career choices in the engineering technologies (Chapter 2)

Survival skills – preparing for the engineering technologies (Chapter 3)

Test 1

Technical communications, written and oral – Notes

Introduction to engineering design – Notes

VI. Course Requirements:

1. Internet Access and Computing Facilities: Internet access is required for submission of assignments and class communication. Students are expected to check their SELU-provided email accounts, as well as the class web site on BlackBoard, at least once every class day, more often if possible. For this class, every attempt will be made to provide access to necessary software for use on your own computer, however no guarantee is made about any individual student's ability to maintain the proper working environment. If you wish to have Internet access from off-campus, you will have to provide for Internet service at your own expense. Students are personally responsible for maintaining an adequate work environment on their own computers. If you are unable to do so, please remember that adequate on-campus labs are provided at SELU with the necessary Internet access, although necessary software may only be available on a limited schedule in special laboratories. Failure to maintain an adequate off-campus work environment will not be accepted as an excuse for late or incomplete work.
2. Assignments: There will be a number of assignments and exact requirements and due date will be given with each assignment. Assignments which are late, and without receiving the consent of the instructor prior to the due date, will receive reduced credit, normally 10% less each day past the due date.
3. Attendance Policy: Attendance will be taken each day, as required by the University Regulations. This policy may be found in the Undergraduate Catalog, and you should make yourself familiar with it. In particular, note that excessive unexcused absences are considered 10% of the total classes, which for this semester and class is three (3) classes. According to the University Regulations, this may result in your being withdrawn from class by the instructor. This is not automatic however, so you should consult the instructor if you think you may have been withdrawn from class. Do not assume that you will be automatically withdrawn from class for non-attendance. Even if you are allowed to continue, please understand that your grade will suffer from lack of attendance. You will miss material that is only available in class, and classroom participation is crucial to your success in this class. In the event of an excused absence, you are responsible for providing acceptable documentation and making arrangements for making up for the lack of participation. Every student is responsible for anything covered in class, even if it is not in the text. This includes announcements of assignments or test dates, so if forced to miss class, be sure to contact the instructor and ask to be informed of those announcements.
4. Withdrawal from Class: The last day you may withdraw or resign from this class is Friday, October 23, 2009.
5. Accommodation of Disabilities: If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Office of Disability Services, Room 203, Student Union. No accommodations will be granted without documentation from the Office of Disability Services.
6. Class Decorum: Free discussion, inquiry, and expression is encouraged in this class. Classroom behavior that interferes with either (a) the instructor's ability to conduct the class or (b) the ability of students to benefit from the instruction is not acceptable. Examples may include routinely entering class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as "crossing the civility line." In the event of a situation where a student legitimately needs to carry a beeper/cellular telephone to class, prior notice and approval of the instructor is required. In an online class, like this one, civility is expected in your online communications and website submissions. Offensive themes and language, "adult" materials, or obscenity is not appropriate in materials submitted for this class.

7. Children in Class: It is the policy of the University that the classroom is not a place for children, and that students are not to bring their family members for day care or baby sitting. (Since this class does not meet physically, this policy should have little effect.)
8. Email Communication: University e-mail policy reads (in part) as follows, "[Faculty] Uses of non-Southeastern e-mail addresses for communication with students regarding University business or educational matters are not acceptable...." In compliance with this policy, please use only your SLU e-mail address when contacting me about the course. Instructors are not required to respond to non-SLU e-mail addresses in a professional capacity. Recall that your SLU e-mail accounts are accessible through the Internet via "Web-Mail" which can be reached from the SLU homepage: <http://www.selu.edu>.
9. Plagiarism: In the event that essays or papers are required as part of any assignment in this class, you should be aware that plagiarism will not be tolerated, and may be detected through the use of Turnitin.com. Students agree by taking this course that all required papers may be subject to submission for textual similarity to Turnitin.com for the detection of plagiarism. All submitted papers will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Terms and Conditions of Use posted on the Turnitin.com website.
10. Changes in Requirements: Due date changes, test postponements, etc. will be announced on BlackBoard. In case of emergencies, I may attempt to contact you by phone, so please make sure that I have your phone number, and let me know if it changes. Notices may also be given by email, or on the class World Wide Web page. This syllabus will be posted on the class World Wide Web page, and that copy will always be the official copy, even if changes are necessary.

VII. Evaluation Procedure

- A. Late Assignments: Assignments are due at the time specified in the assignment. Late assignments will receive a 10% penalty for each day of being late.
- B. Grade Calculation: Your grade will be calculated according to the following point distribution:

40%	Assignments
40%	Midterms (20% each)
20%	Final Exam

Grades will be computed by a curve method. In the event that the distribution does not present enough breaks or if it has too many breaks, letter grades should be approximately expected according to the following chart which is only given as an indication of probable expectations:

A	B	C	D	F
90-100	80-89	70-79	60-69	0-59

VIII. Academic Integrity:

Learning is a social experience, and I wouldn't dream of trying to change that. Studying with friends, and talking among yourselves about how to attack a problem is important to success in this class. But if you don't do your own thinking -- if you only take from these discussions, and never give -- then you won't understand well enough to function as a professional and will not perform on tests. Make sure that your work is your own, because you might have to pass a quiz over the content of your assignment to receive credit. **If a project is supposed to be done by a group, it will be specifically announced that way.** And if you need further help, please talk to me. I try to be as accessible as possible. If you can't make my office hours, send me an email -- if I'm not covered up with something, I'll be glad to work with you. And if we need to, we can make a special appointment.

More formally, students are expected to maintain the highest standards of academic integrity. Behavior that violates these standards is not acceptable. Examples are the use of unauthorized material, communication with fellow students during an examination, attempting to benefit from the work of another student and similar behavior that defeats the intent of an

examination or other class work. Cheating on examinations, plagiarism, and improper acknowledgement of sources in essays and the use of a single essay or paper in more than one course without permission are considered very serious offenses and shall be grounds for disciplinary action as outlined in the current General Catalogue.