

ENGR 1030 – Fall 2020
Technological Systems
Monday and Wednesday including Canvas learn

Instructor: Dr. Nourredine Boubekri

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Office Hours: Mechanical Engineering Department (Remote by appointment)

Appointment

DESCRIPTION:

Introduction to technological systems with focus on past, present and future trends and influences and impact of the systems of technology on society. Satisfies the Discovery requirements of the University Core Curriculum.

CANVAS

Together with the syllabus, *Canvas* is used as “home base” for reading assignments, writing assignments, student questions, and grade recording. Sign into *Canvas* often for assignments and announcements.

*****All Assignments and announcements from the instructor will be sent via Canvas.*****

COURSE LEARNING OUTCOMES:

Upon completion of this course, students will be able to do the following activities, given the appropriate parameters:

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Upon successful completion of this course, students will be able to do the following activities, given the appropriate parameters (ABET Student Outcomes appear in parentheses):

1. Investigate the Internet and utilize campus library periodicals and other publications to access information appropriate to the course. (g) (3)
2. Locate a museum-quality item of technology that represents the 20th century, research its history and its effect on society and complete a presentation that includes the results of your research and the item. (g) (3)
3. Write reports and engage in discussion appropriate to technological topics and submit on time via Canvas. (g,h,k) (3)
4. Develop an understanding of the importance professional ethics and apply it to real world, engineering situations. (i)
5. Understand the importance of diversity in the engineering field and recognize contributions (i)
6. Display knowledge of the economic and social impacts of engineering by using real world examples. (j)
7. Join an organization and/or network with a professional to increase awareness of the profession and grow relevant skills (h) (1)

b) Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course:

The ETAC ABET Mapping of Student Outcomes supported by the specific outcomes is given by the following table:

ETAC ABET 2019-2020	ETAC ABET 2017-2018, ETAC ABET 2018-2019
An ability to apply written, oral, and graphical communication in broadly defined technical and non-technical environments, and an ability to	An ability to apply written, oral, and graphical communication in both technical and non-technical environments, and an ability to identify and use appropriate technical literature. (Abet g)

identify and use appropriate technical literature, (ABET 3)	
CURRICULUM	an understanding of the need for and an ability to engage in self-directed continuing professional development. (ABET h.)
CURRICULUM	an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity. (ABET i.)
CURRICULUM	a knowledge of the impact of engineering technology solutions in a societal and global context. (ABET j.)
CURRICULUM	a commitment to quality, timeliness, and continuous improvement. (ABET k.)

ATTENDANCE POLICY

Class attendance is mandatory. Regular attendance and participation is expected. Arrive on time so class can start promptly. Students are responsible for all information dispersed in class and all assignments due.

GRADE CALCULATION

Each student will be responsible for all assignments. Grades will be earned based on successful completion of the following:\

Class Requirement	Points
Research reports(2@5% each)	10%
Written Reports (5@ 5% each)	25%
Quizzes	10%
Exams /2 @25%	50%
Resume and Cover Letter	5%
Total	100%

ASSIGNMENTS

All assignments must be submitted via CANVAS by **midnight of the due date** . **Late assignments will not be accepted.**

CELL PHONES

Use of cell phones, whether talking or texting is prohibited during class. Cell phones should be turned off and put away before class begins unless approved in advance by the instructor.

LAPTOPS (NOT APLICABLE IN REMOTE TEACHING).

Students must obtain permission from the instructor before using a laptop in class. Students who are given permission, but use the laptop for any purpose, other than to take lecture notes, will lose that privilege.

ADA STATEMENT

The University of North Texas is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 – The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act of 1990 (ADA) as amended, pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As faculty members, we are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at www.unt.edu/oda. Also, you may visit the Office of Accommodation in the University Union or call (940) 565-4323.

CHEATING AND PLAGIARISM

Students caught cheating or plagiarizing will receive a "0" for that particular assignment . Additionally, the incident will be reported to the Office of Student Rights and Responsibilities for further penalty. According to the UNT catalog, the term "cheating" includes, but is not limited to: a. use of any unauthorized assistance in taking quizzes, tests, or examinations; b. dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; c. the acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the university; d. dual submission of a paper or project, or resubmission of a paper or project to a different class without express permission from the instructor(s); or e. any other act designed to give a student an unfair advantage. The term "plagiarism" includes, but is not limited to: a. the knowing or negligent use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment; and b. the knowing or negligent unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

ACCEPTABLE STUDENT BEHAVIOR

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Center for Student Rights and Responsibilities to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at www.unt.edu/csrr.

Topics Covered include:

Introduction and Course Objectives
Technology and Technology Systems Overview
First Industrial Revolution
Second Industrial Revolution
Third Industrial Revolution
Fourth Industrial Revolution
Technology Development and Application Challenges
Technology and Society
Fields of study/Training and Job Requirements challenges
Career Decision Making
Continuous Learning (Education and Training)

NOTES

- 1-Quizzes will be on either Monday or Wednesday at class time (Not announced)
- 2-All written assignments; including quizzes should be scanned and submitted on Canvas
- 3-All assignments will be posted the week before they are due.

- 4-Synchronous (live) sessions in this course will be recorded for students enrolled in this class section to refer to throughout the semester. Class recordings are the intellectual property of the university or instructor and are reserved for use only by students in this class and only for educational purposes. Students may not post or otherwise share the recordings outside the class, or outside the Canvas Learning Management System, in any form. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.