

ENGR 1030 – Spring 2022 Technological Systems

Instructor: Dr.Nourredine Boubekri

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Office Hours: Tuesday and Thu 2pm to 3pm by Appointment (Department of Mechanical Engineering)

Course 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:

- 1-Write reports and engage in discussion appropriate to technological topics. (g,h,k)
- 2-Develop an understanding of the importance professional ethics and apply it to real world, engineering situations. (i)
- 3-Understand the importance of diversity in the engineering field and recognize contributions (i)
- 4-Display knowledge of the economic and social impacts of engineering by using real world examples. (j)
- 5-Join an organization and/or network with a professional to increase awareness of the profession and grow relevant skills (h)

ATTENDANCE POLICY

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

Exam Schedule

Exam 1 March 10, 2022

Exam 2 May 05, 2022

GRADE CALCULATION

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

Bimonthly lectures summary reports 6 @ 5% each subtotal 30%

Exams 2 @ 33% each subtotal 66%

Resume and Cover letter 4%

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.

LAPTOPS: Students must obtain permission from the instructor before using a laptop in class.

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.

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)