



## **ENGR 110 Introduction to Engineering & Technology Course Syllabus: Spring 2017**

This course provides a solid foundation in fundamental skills needed for freshmen and transfer students to academically succeed and professionally prepare them for challenges within the disciplines of Engineering and Technology Management. The project-based assignments will provide students with opportunities to apply mathematics to solve engineering problems, acquire team working skills, practice written and verbal communication skills, and enhance problem solving and design skills. Early understanding of these skills will assist students throughout their undergraduate experience.

Prerequisites: MATH 142, or concurrent enrollment.

**Instructor: Perry Moler**

**Office Location: AG/IT 219**

**Office Hours: M, W, R 9:00am-10:00am, F 9:00 am – 11:00 am**

**Office Phone: 903.886.5361**

**Office Fax: 903.886.5960**

**University Email: [Perry.Moler@tamuc.edu](mailto:Perry.Moler@tamuc.edu)**

### **COURSE INFORMATION**

**Course Times:** ENGR 110 9:00-9:50 MWF

**Required Text:** None

**Learning Outcomes:**

1. Understand common engineering & engineering-related disciplines and traits of successful engineers
2. Understand engineering design process, and the importance of good written/oral communication skills
3. Understand the Code of Ethics of engineers
4. Understand fundamental dimensions, units, length-/time-/mass-/force-/temperature-related variables
5. Understand computational engineering tools and materials
6. Understand Mathematics, Statistics, and Engineering Economics

### **Course Policies:**

Course Requirements and Grading Policy

Attendance & Participation 50 points

Assignments & Quizzes 100 points

1<sup>st</sup> Presentation 50 points

2<sup>nd</sup> Presentation 50 points

3<sup>rd</sup> Presentation 50 points

Final (TEAM PROJECT) 100 points

Total 400 Points

**Late Work: Late work WILL NOT be accepted.**

Attendance Policy:

Roll will be taken at the beginning of class. If you are late you will be counted as absent

Points will be deducted from Attendance & Participation

0-1 Absent = 0 pt.

2-3 Absences= 5 pts.

4-5 Absences= 25 pts.

6-7 Absences= 50 pts.

8 = Removal from the course.

<b>TECHNOLOGY REQUIREMENTS</b>
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The following technologies will be required for this course. Internet access / connection – high speed recommended (not dial-up) Basic ability to use a personal computer required to complete assignments.

## ACCESS AND NAVIGATION

Access to the internet and software applications will be required to complete assignments. These applications are available in the Department of Engineering & Technology's computer labs if the student does not have access from home.

## COMMUNICATION AND SUPPORT

### **Interaction with Instructor Statement:**

The primary communication will be during face to face class times or office hours. However, I will be available via email. Emails replies will be sent to the students myleo email address. I will not reply to other email accounts. E.g. (Gmail, Yahoo, and etc.)

### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook.

<http://www.tamuc.edu/admissions/registrar/documents/studentGuidebook.pdf>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: Netiquette

<http://www.albion.com/netiquette/corerules.html>

### **Academic Integrity**

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures: Undergraduate Academic Dishonesty 13.99.99.R0.03

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

### **ADA Statement**

#### **Students with Disabilities**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

*Office of Student Disability Resources and Services*

Texas A&M University-Commerce

Gee Library- Room 132

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: StudentDisabilityServices@tamuc.edu

Website: Office of Student Disability Resources and Services

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

***Non-Discrimination Statement***

A&M-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

***Texas Senate Bill - 11***

(Government Code 411.2031, et al.) Authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to

(<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer).

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

## COURSE OUTLINE / CALENDAR

DATE	TOPIC/ ASSIGNMENT
Week 1	<i>LECTURE</i> Course Introduction, What is Engineering and Technology
Week 2	<i>LECTURE</i> Introduction to E&T Department, and Engineering and Technology Fields
Week 3	<i>LECTURE</i> Graduation Requirements & Degree Plans of the E&T Department
Week 4	<i>LECTURE</i> Engineering Profession & Preparation. 1 <sup>st</sup> Class Presentation
Week 5	<i>LECTURE</i> Engineering Design, Communication, and Ethics
Week 6	<i>LECTURE</i> Engineering Design, Communication, and Ethics
Week 7	<i>LECTURE</i> Mathematics, Economy, and Material
Week 8	<i>LECTURE</i> What are Variables. 2 <sup>nd</sup> Presentation
Week 9	<i>Spring Break</i>
Week 10	<i>LECTURE</i> What is Technology, Emerging Technologies
Week 11	<i>LECTURE</i> What are Emerging Engineering Technologies
Week 12	<i>LECTURE</i> What is the Impact on Society, Globalization
Week 13	<i>LECTURE</i> Emerging Technologies 3 <sup>rd</sup> Presentation
Week 14	<i>LECTURE</i> Lab safety Assign Final Project
Week 15	<i>LAB</i> Work on Final Project
Week 16	<i>LAB</i> Work on Final Project
Week 17	<i>Final Project</i>