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# TENNESSEE TECH UNIVERSITY

## DEPARTMENT OF COMPUTER SCIENCE

### ENGR 1020: CONNECTIONS TO ENGINEERING

SECTION 009, MW, 12:20-1:15PM, CLEM 323, REC 2 CREDIT 1, FALL 2017

#### INSTRUCTOR INFORMATION

**Instructor's Name:** William (Bill) Eberle

**Telephone Number:** 931-372-3278

**Email:** [weberle@tntech.edu](mailto:weberle@tntech.edu)

**Office:** Bruner Hall, Room 413

**Office hours:** Monday and Wednesday 1:30-3:00

#### PEER MENTOR INFORMATION

**Peer Mentor's Name:** Abigail (Abby) Collins

**Email:** amcollins42@students.tntech.edu

#### COURSE INFORMATION

##### PREREQUISITES

Freshman standing.

##### COURSE DESCRIPTION

Engages students in meaningful academic and non-academic, in-class and out-of-class activities involving engineering and technology. Emphasizes ethical behavior and the use of critical thinking in the formation of academic and social goals and support groups, and in self-management and study skills. Includes a creative inquiry project/activity which students should share.

##### COURSE STUDENT LEARNING OUTCOMES

###### *Build meaningful connections*

- ✓ With other students (develop personal and professional networks)
- ✓ With the faculty and staff in your department/program
- ✓ With the student life of the University
- ✓ With available resources and support systems for both academics and student life
- ✓ Integrate students' college experiences with their future plans and career ambitions
- ✓ Demonstrate proficiency in the identification and evaluation of information sources to support academic inquiry and introduce students to elements of creative inquiry/research.
- ✓ Exercise written and oral communication skills to discover, develop, and articulate ideas and viewpoints.

##### COURSE PROGRAM GOALS

- ✓ With other students (develop personal and professional networks)

- ✓ Foster student success, as measured through first-semester to second-semester retention rates.
- ✓ Utilize and promote support networks for a diverse student body, including at-risk and high-achieving populations.
- ✓ Support students in building personal, curricular, and co-curricular connections across the campus as part of their continued transition to the University.
- ✓ Provide pathways to address academic challenges of college transition, including the development of foundational skills in critical thinking, information literacy, and ethical reasoning.
- ✓ Cultivate a growth mindset for TTU students, including attention to articulating and achieving both short- and long-term personal, academic, and career goals.
- ✓ Promote service learning and civic engagement.

## MAJOR TEACHING METHODS

Lecture, discussion, and assignments.

## SPECIAL INSTRUCTIONAL PLATFORM/MATERIALS

The class syllabus, schedule, and other information will be available on the iLearn website as it is developed.

## TOPICS TO BE COVERED:

1. ACADEMIC SUCCESS STRATEGIES
2. TTU SUPPORT SERVICES
3. TRANSITION TO COLLEGE
4. ENGINEERING PROFESSION AND EDUCATION OPPORTUNITIES
5. ORAL PRESENTATION

## TEXTS AND REFERENCES:

**Required:** TTU Common Book: “This I Believe II” by Jay Allison & Dan Gediman (Provided in class)

**References:** (Provided in class)

## GRADING AND EVALUATION PROCEDURES

Course Grading	
Class Attendance	20%
Class Activities and Participation	45%
Event Attendance	35%

## GRADING SCALE

Letter Grade	Grade Range
A	90-100
B	80-89
C	70-79

Letter Grade	Grade Range
D	60-69
F	59 and below

**NOTE:** Half of your required Events must be completed by Fall Break. Failure to do so will may result in a deduction of 10 points from your “Event Attendance” final grade, unless coordinated with the Instructor in advance.

## COURSE POLICIES

### STUDENT ACADEMIC MISCONDUCT POLICY

Maintaining high standards of academic integrity in every class at Tennessee Tech is critical to the reputation of Tennessee Tech, its students, alumni, and the employers of Tennessee Tech graduates. The Student Academic Misconduct Policy describes the definitions of academic misconduct and policies and procedures for addressing Academic Misconduct at Tennessee Tech. For details, view the Tennessee Tech’s Policy 217 – [Student Academic Misconduct at Policy Central](#).

### UNIVERSITY PLAGIARISM POLICY (Tennessee Tech University Student Handbook – Plagiarism (Academic Regulations))

When you use (for example, quote or even summarize or paraphrase) someone else’s media, words, data, ideas, or other works, you must cite your source. You should be especially careful to avoid plagiarizing Internet sources (for example, e-mail, chat rooms, Web sites, or discussion groups). It does not matter whether you borrow material from print sources, from the Internet, from on-line data bases, or from interviews. Failure to cite your source is plagiarism. Students who plagiarize may receive an “F” or a “0” for the assignment, or an “F” for the course.

<https://www.tntech.edu/handbooks/ttstudenthandbook/academic-regulations>

### TENNESSEE TECH UNIVERSITY STUDENT EMAIL POLICY

The University sends official communications to all Tennessee Tech email addresses. All students receive a @students.tntech.edu email address. This address will receive notices about schedules, grade results, billing information, emergency alerts, important deadlines, a daily email newsletter, and all other official university information. It is your responsibility to read and manage this email.

See: <https://www.tntech.edu/its/emailinfo/studentemail>

Please add my email, [weberle@tntech.edu](mailto:weberle@tntech.edu) to your approved recipients list to ensure you will receive any correspondence in regards to this course. Please note the instructor of this course is not responsible for missed email communication directed to your spam folder.

### CLASS PARTICIPATION

The course is participatory with discussions on a variety of topics. As such, students are expected to attend and actively engage with the instructor and fellow students in the class.

### ASSIGNMENTS AND RELATED POLICY

Sexual Harassment Prevention Training:

All students are required to pass the TTU Online Sexual Harassment Prevention Training, which can be found at <https://www.tntech.edu/titleix/haven> . The training is in TWO parts, the first part of which must be completed in September, and the second part to be completed 30 days after completing the first part. **YOU MUST RECEIVE A GRADE OF >= 70 TO GET CREDIT.**

Campus Emergency Plan & Fair Use Doctrine:

All students are required to demonstrate a familiarity with the Campus Emergency Response Plan, <https://www.tntech.edu/planning-and-finance/safety/responseplan> and Fair Use Doctrine, <https://www.tntech.edu/library/faculty-resources/copyright-and-plagiarism#tab-002> .

Event Attendance:

Students must attend at least **seven** different events during the course of the semester. These events include:

- an athletic event,
- a world cultures event,
- a fine arts event,
- the Engineering Student Success Fair (September 14)
- the Career Day Job Fair (September 28),
- an engineering/computer science society meeting,
- and at least one of the following
  - ❖ a non-engineering/computer science club meeting,
  - ❖ an academic enhancement workshop,
  - ❖ or a general workshop.

The Center Stage program, <http://www.tntech.edu/centerstage/>, sponsors on-campus **fine arts events** and **multicultural events**, and Multicultural Affairs (<https://www.tntech.edu/bcc/>) also sponsors **multicultural events**.

A list of eligible **workshops** can be found on the web at <https://www.tntech.edu/studentaffairs/counsel/workshops/>.

A list of eligible societies and clubs can be found at <https://www.tntech.edu/studentaffairs/studentactivities/orgs>.

Following the attendance at any event, each student is required to submit to the Dropbox in iLearn a **written account OR 8-second video (like a Vine) WITH YOU IN IT of the experience**. You are encouraged to attend the events as a group and arrive early to get a good seat.

Three-Minute Engineer:

All students will be required to make a Three-Minute Engineer (TME) presentation to the class. (Additional details to follow – i.e., there will be a handout.)

**Class Plan by Weeks or Days:**

<b>Week</b>	<b>Dates</b>	<b>Topics</b>	<b>Location</b>
1	08/28	Introduction, Syllabus and Schedule BINGO	
1	08/30	iLearn Study Tips	
2	09/04	<b>*** Labor Day Holiday ***</b>	
2	09/06	Surf the Net	CLEM 313A
3	09/11	Time Management Discuss Online Training Modules	
3	09/13	NO CLASS – Attend “Student Success Fair” (Thursday 10-1)	STEM (Thurs)
4	09/18	Learning Styles	CLEM 313A
4	09/20	Etiquette and Communication	
5	09/25	“How to Get Good Grades in College”	
5	09/27	Career Day Prep – ATTEND Career Day Fair TOMORROW!	Hoop (Thurs)
6	10/02	Three Minute Engineer Undergraduate Basics	
6	10/04	Undergraduate Basics	
7	10/09	Essay Instructions Planning for Advisement/Tech Connect	
7	10/11	Library Instruction	Library 112
8	10/16	<b>*** Fall Break ***</b>	
8	10/18	NO CLASS – Study for Midterms!	
9	10/23	Diversity and Inclusion	
9	10/25	Study Abroad Program	
10	10/30	iCube Tour	iCube (Library)
10	11/01	SIGI	CLEM 313A
11	11/06	Activity - Common Book	Essay Due
11	11/08	Activity – Survival Simulation Game	
12	11/13	CPR/AED	Fit (West Gym)
12	11/15	Effective Presentations (Holly Mills)	
13	11/20	NO CLASS – Time to prep your presentation!	
13	11/22	<b>*** Thanksgiving ***</b>	
14	11/27	Three Minute Engineer Presentations	
14	11/29	Three Minute Engineer Presentations	
15	12/04-12/06	TBD	

**DISABILITY ACCOMMODATION**

Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). An Accommodation Request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The ODS is located in the Roaden University Center, Room 112; phone 372-6119. For details, view the Tennessee Tech’s Policy 340 – [Services for Students with Disabilities at Policy Central](#).