

ENGR/ETCS- 101: Introduction to Engineering, Technology and Computer Science

Section:	- 01	- 03	- 05	- 02	- 04
Time:	T 10:30 – 11:30 am	F 9:00 – 9:50 am	T 1:30 – 2:20 pm	W 7:00 – 7:50 pm	F 11:00 – 11:50 am
Instructor:	Yanfei Liu			S. Scott Moor	
Telephone:	481-6355			481-6020	
Office:	ET 327G			ETCS Room 321F	
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Office Hours:	M W 4:00 – 5:00 pm T 3:00 – 5:00 pm			M 1:00 - 2:30 W 4:30 - 6:30 F 10:00-10:50 F 3:30 - 5:00	
or by appointment or stop by, when we are in our offices. We can at least set up an appointment.					

Course Website: www.engr.ipfw.edu/~moor/101

Course Description: Introduction to the profession of engineering. Focus is on academic, career, and personal development success strategies including lifelong learning skills and professional ethics. Assignments and projects are of a multidisciplinary nature.

Required Textbook: *Engineering*, a compilation published by McGraw-Hill, Inc. (2007)

Course Outcomes

1. Understand and apply the concepts of professional and ethical responsibility (**f**)
2. Communicate effectively through essays and reports (**g**)
3. Understand the engineering profession and appreciate the contributions of engineers and engineering to today's society (**i, h**)

We will be looking at the various engineering and engineering technology majors. In addition, we will explore habits, behaviors and strategies that will lead to success in collegiate studies.

ABET Program Outcomes

Engineering programs must demonstrate that their graduates have:

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs
- (d) an ability to function on multi-disciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global and societal context
- (i) a recognition of the need for, and an ability to engage in life-long learning
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Evaluation:

- 20 % Homework & Quizzes
- 15 % Class (attendance, participation, exercises)
- 15 % Job Research Project
- 15 % Ethics Project
- 35 % Group Project

Group project grade will include peer evaluation.

The final letter grade will be assigned according to the following standards with minor adjustments of cutoffs possible during final grading:

for % Score ≥	Grade	Grade pnt. weight
93	A	4.0
90	A –	3.7
87	B +	3.3
83	B	3.0
80	B -	2.7
77	C +	2.3
73	C	2.0
70	C -	1.7
60	D	1.0
	F	0.0

Tentative Schedule:

Section			Class Topics	Assignment Due	Special Dates
1 & 5	2	3 & 4			
26-Aug	27-Aug	29-Aug	Welcome/Time Budgets plus		
2-Sep	3-Sep	5-Sep	Why Engineering /Course Intro.	Time budget	Labor Day Holiday
9-Sep	10-Sep	12-Sep	Learning Styles and Strategies	ILS & Survey	
16-Sep	17-Sep	19-Sep	Memo Format, & Tables	ILS Reflection	
23-Sep	24-Sep	26-Sep	Study Help/Class Preparation	Job Ads Topic Memo	
30-Sep	1-Oct	3-Oct	Ethics	Job Ads Memo	Bonus: Advisor Visit form
7-Oct	8-Oct	10-Oct		1st Activity Memo	
14-Oct			Fall Break		
21-Oct	15-Oct	17-Oct	College logistics / registration	Ethics Project, Group Project Survey	
28-Oct	22-Oct	24-Oct	The Engineering Profession: Examples, reverse engineering, discussion of majors, job market, and the profession.		
4-Nov	29-Oct	31-Oct		1-yr Plan	Last week to withdraw
11-Nov	5-Nov	7-Nov		Topic & Plan Memo	Priority registration
18-Nov	12-Nov	14-Nov		2nd Activity Memo	
25-Nov	19-Nov	21-Nov		Technical Memo	1 st yr. Registration
	26-Nov	28-Nov	Thanksgiving		
2-Dec	3-Dec	5-Dec	The Engineering Profession (cont.)		
9-Dec	10-Dec	12-Dec	Wrap up	Project Poster	
(1) 10:30 16-Dec.	(2) 7:00 17-Dec	(3) 9:00 15-Dec	Project Peer Review	Peer Evaluation, Poster Rating	
(5) 1:30 18-Dec.		(4) 11:00 17-Dec			

Course Policies:

- **Homework:** Homework assignments are due before the beginning of class. Under no circumstances should you interrupt the class to attempt to get your homework in.
- **Attendance:** Attendance is mandatory. If you miss a class for any reason you are responsible for determining what material was covered, what assignments were made, and what announcements were made. When possible you must notify your instructor of any expected absences no later than one class prior to the one you will miss. Missing any class will affect your participation grade. After one unexcused absences, each subsequent unexcused absences will result in an additional 10% penalty on the final grade.
- **Tardiness:** Late arrival to the classroom disturbs everyone. Please do not be late. If you are unavoidably delayed then join the class quietly, with minimal disturbance. Late attendance will affect your participation grade.
- **Integrity:** I expect you to show professional integrity throughout your work this semester. You will take care to give credit to those whom credit is due – notating clearly in written work any analysis or words that are not your own.
 - Some collaboration on homework is helpful to the learning process and encouraged. However, you must include a note on any assignment listing others with whom you worked. However, in all cases the final wording, and calculations must be your own work.
 - Copying and other forms of cheating are treated seriously. Penalties generally exceed the value of the assignment and can result in a F for the course and/or a memo placed in your advising file.
 - Assisting anyone in cheating is also a violation of your professional integrity and may also result in these penalties. This includes allowing anyone to copy your work.
- **Cell phones:** All cell phones and beepers must be turned off (off – not simply on ‘vibrate’) during class.
- **Disabilities:** If you have a disability and need assistance, special arrangements can be made to accommodate most needs. Contact the Director of Services for Students with Disabilities (Walb Union, Room 113, telephone number 481-6658) as soon as possible to work out the details. Once the Director has provided you with a letter attesting to your needs for modification, bring the letter to me. For more information, please visit the web site for SSD at <http://www.ipfw.edu/ssd/>
- **Computer use:** During class you are expected to use the computers only for activities directly related to that class session (i.e., no web surfing, working on other homework, instant messaging, etc.). Students who repeatedly violate this policy may be asked to leave the classroom.
- **Email:** I expect that you will receive and read any emails send to your IPFW email account within one day. Either check this account regularly (daily) or forward the messages to an account that you do check daily.

Please send emails to me from you IPFW account only. Other messages may be deleted or filtered as possible spam. Assignments will be counted only when sent from your IPFW account. You are welcome to email questions from your IPFW account. For any email received from a student IPFW account will be answered by the end of my next office hour at the latest.

Accessing ETCS Computer Accounts:

Computer Login for ETCS computers

University (ITS) and ET building networks are separate. They require separate login IDs and have separate network drives. For ET building network your user name and password are:

User Name: 1st letter of first name + 1st three letters of last name + last four digits of student ID.

Password: student ID with hyphens as in your SSN,
(e.g., if your ID is 900682967, your password is 900-68-2967).

Your Student ID is your randomly generated ID number not your Social Security Number. This number is listed at the top of your my.ipfw.edu page. Once you have logged in you may change your password. If you are not able to login this way please or have other technical difficulties with your student account, please email Mike Pressler at pressler@omega.ipfw.edu.

Accessing your ETCS Network Drive from outside the ET building

You can access files stored on your ETCS network drive remotely anywhere you have network access. Open your web browser and go to <https://students.etc.ipfw.edu/weblefm/login.php>. Log in using your ETCS user name and password described above.