Calendar for ME 2101-3

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#1 *SES #C1-1*		*W#1* *SES #C1-2*
➢ Introduction to ME 2101-3. ➢ Introduction to the Concepts Session. ➢ Assignment # C-1: Engineering the Profession. **Reading Assignment For Con. *C1-2*** ➢ Assignment # C-1: Engineering the Profession. **Reading Assignment For Con. *C2-1*** ➢ First Day Materials focusing on Grading system and Assessment. **Assignments to be completed by Con *C2-1*** ➢ Purchase required Course Books and Supplies. ➢ Prepare for the Quiz on First Day materials, especially Grades and Assessment (white, orange and yellow packets). ➢ Sign the blue sign-off form and bring it to class.		➢ Assignment # C-1 : Engineering the Profession ➢ Introduction to Active Learning. ➢ Active Learning Jigsaw Exercise ➢ Video: The Private Universe **Assignments to be completed by Con. *C2-1*** ➢ Assignment # C – 1 is due. ➢ Purchase required Course Books and Supplies if you still have not. ➢ Prepare for the Quiz on First Day materials, especially Grades and Assessment (white, orange and yellow packets) in first day material. ➢ Sign the sign-off form and bring it to class. ➢ ***Last call: If you do not already have a TU computer account, please get an account as soon as possible.***

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#2　　　　　　　*SES #L1-1*		*W#2*　　　　　　　*SES #L1-2*
➢ Introduction to Laboratory. ➢ Presentation & Assessment of Technical Work. **Reading Assignment For next Lab *L1-2*** ➢ Presentation of Technical Work.　See pages　J1-J4 Part I of Section J in the Blue Workbook. **Assignments to be completed by next Lab *L1-2*** ➢ Purchase the Required Course Text Books and Supplies if you have not already done.		➢ The ME 2101-3 Environment. ➢ Introduction to Engineering Ethics. **Reading Assignment For next Lab L2-1** ➢Section G [Read from G-1 to G-4 Then Only Read the material for your ***expert number*** (which is the **same as** your ***team member number Pages 5-22***)]. **Assignment For next Lab L2-1** ➢Begin work on Assignment # <u>L-1</u> (Teammate Interview, due in Lab Session # L3_1).

1ˢᵗ Session (*C* =Concepts, *L*= Lab.)		2ⁿᵈ Session (*C* =Concepts, *L*= Lab.)
W#3 *SES #C2-1*		*W#3* *SES #C2-2*

➢ Quiz on First Day Material.
➢ Improve the Tutorials.
➢ Move to Semester Teams.
➢ Deliver & Assess Tutorials.
➢ Quiz Mechanics.
 	
Reading Assignment For Con. _C2-2_
    ➢ Pages 1-3 in Chapter 1 in Strategies for Creative Problem Solving book.
    ➢ Pages B5-B10 and E1-E12 in Blue Workbook.
 	
Assignments to be completed by Con _C2-2_
    ➢ Prepare for the Quiz on the assigned reading materials.
    ➢ Bring Blue Workbook to Class!
		➢ Quiz.
		➢ Burning Questions.
		➢ Exercise: The Registration Process.
		
		Reading Assignment For Con. _C3-1_
		
		    ➢ Page 12 and sections 2.3 and 2.5 of Chapter 2 in Strategies for Creative Problem Solving book.
		
		Assignment for the Next Con _C3-1_
		
		    ➢ Prepare for the Quiz on the assigned reading materials.

1st Session (*C* =Concepts, *L*= Lab.)		**2nd Session (*C* =Concepts, *L*= Lab.)**
W#4　　　　　　　*SES #L2-1*		*W#4*　　　　　　　*SES #L2-2*
➢ Team Dynamics Jigsaw Exercise. ➢ Video: View the Meetings, Bloody Meetings. ➢ Lecture on Communication **Assignment For next *Lab L3-1*** ➢ Each individual in the team is to read and complete step 1 (Promoters and Barriers to Team Performance) of Assignment L-5. ➢ Each team member should bring a package of Post-its OR index cards to class.		➢ Complete Team Dynamics Jigsaw Exercise. ➢ Creating & Maintaining your Team. ➢ View a video Team Player **Assignment For next *Lab L3-1*** Teammate Interview assignment (# L-1) is due. Prepare Design Notebook For Review (# L-2) Each individual in the team is to read and complete step 1 (Promoters and Barriers to Team Performance) of Assignment L-5.

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#5　　　　　　　　　*SES #C3-1*		*W#5*　　　　　　　　　*SES #C3-2*
- Quiz on the Reading material Assignment. - Burning Questions. - Video: Discovering the Future. - Problem Definition - Present State Desired State **Reading Assignment For Con. *C3-2*** - Pages 29-45 & 50-52 Chapter 3 in Strategies for Creative Problem Solving book. **Assignments to be completed by Con *C3-2*** - Prepare for the Quiz on reading materials of chapter 3. - Bring Strategies for Creative Problem Solving Book to Class!		- Quiz on chapter 3 - Burning Questions - Brainstorming - Organize solutions - Selecting top 6 ideas **Reading Assignment For Con. C4-1** - Pages 61-62 and sections 4.3, 4.3A and 4.3B of Chapter 4 in Strategies for Creative Problem Solving book. **Assignments to be completed by CON C4-1** - Prepare for the Quiz on Chapter 4 . - See Table 1 in Concept First day Materials for corrections & make-ups. - Bring Strategies for Creative Problem Solving to class! - Bring ONE package/student of Post-Its or index cards to class!

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#6 *SES #L3-1*		*W#6* *SES #L3-2*

➢ Developing Team Norms.
➢ Assessment using checklists.
 	
Assignment for Lab L3-2
 	
➢ Prepare Design Notebook For Review (# L-2).
 	
Assignment for Lab L3-2
 	
➢ Read project 1 Introduction Assignment (# L-3).
 	
Assignment for Lab L4-1
 	
➢ Complete Team Norm Generation (# L-5).
➢ Prepare Team Process Check (# L-4).
		➢ Complete work on Assignment L-2.
		➢ Project 1 (# L-3)
		   • Introductory remarks.
		   • Problem definition (# L-3a).
		
		Assignment For next Lab L4-*1*
		
		➢ Prepare personal name tags for each team member to be used in Team Photo. Name Tag should use large (<u>minimum</u> font size of 44), dark letters. Also prepare a Team name tag (team number, semester and year of class).
		➢ Continue working on Problem Definition work (L-3a).
		➢ Complete Team Norms (L-5) and place in Notebook.
		➢ Complete First Team Process Check (L-4) to be submitted to the instructor.

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#7 *SES #C4-1*		*W#7* *SES #C4-2*

1st Session

- ➢ Quiz.
- ➢ Brainstorming.
- ➢ Organize solutions.
- ➢ Enhanced Brainstorming.
- ➢ Select top 6 ideas.
- ➢ KT Decision Analysis Review.
- ➢ Constructing a KT DA Table.

Reading Assignment for Con. C4-2

- ➢ Chapter 5 (Intro, Section 5.1, section 5.3) in Strategies for Creative Problem Solving.
- ➢ Read Problem 9 on page 114-115 in Strategies for Creative Problem solving book

Assignment for Con. C4-2

- ➢ Prepare for the Quiz on Chapter 5 (Intro., Section 5.1, section 5.3)
- ➢ 2. Bring Strategies for Creative Problem Solving book   to Class !

Assignment for Con. C5-1

See Table 1 in Concept First Day Materials for Quiz Corrections / 'Make Up'.

2nd Session

- ➢ Quiz on Sections 5.1 and 5.3.
- ➢ Burning Questions'.
- ➢ KT Decision Analysis Review.
- ➢ Constructing a KT DA Table.

Reading Assignment for Con. C5-1

Sections 5.2, 5.4 in Strategies for Creative Problem Solving Book.
The Exxon Valdez Problem in the Handout.

Assignment for Con. C5-1

- ➢ Prepare for the Quiz on reading materials.
- ➢ See Table 1 in Concept First Day Materials for Quiz Corrections / 'Make Up'.
- ➢ Bring to Class: Strategies text book

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#8 *SES #L4-1*		*W#8* *SES#L4-2*

➢ Answering Questions Regarding:
   • Assessment using Checklists.
   • Overall framework for Project 1.
   • Problem Definition techniques.
    3. Problem Definition techniques
➢ Complete Problem Definition Work (L3-a) if necessary.
➢ Assignment # L-3b: Idea Generation.
 	
Assignment for Next Lab *L4-2*
 	
➢ If necessary, make improvements to Assignment # L-2 and Re-submit.
➢ Prepare Design Notebook for 1st Peer Assessment.
➢ Prepare for (L-3-a) Oral Presentation to Class.
Assignment for Lab *L4-2*
 	
➢ Presentation of Problem Definition Work (L-3a) is due.
		➢ Design Notebook Evaluation using first checklist.
		➢ Assignment # L-3a: presentation
		
		Assignment for Next Lab *L5-1*
		
		➢ Complete Idea Generation (# L-3b).
		➢ Prepare Design Notebook For Peer Assessment & submission.
		➢ Prepare for Oral Presentation to Class.

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#9 *SES #C5-1*		*W#9* *SES #C5-2*

1st Session		2nd Session
➢ Quiz on Chapter 5. ➢ 'Burning Questions'. ➢ KT SA Work Session (Exxon Valdez). **Reading Assignment for Con. C5-2** ➢ Chapter 6, Sections 6.1 up to 6.4 in Strategies for Creative Problem Solving book. ➢ The Solar Race Car in the CD. (Out of Class assignment). As a team construct the KT PPA for (solar car assignment). **Assignment for Con. C5-2** ➢ Prepare for the Quiz on Chapter 6, Sections 6.1 up to 6.4. ➢ See Table 1 in Concept First Day Materials for Quiz Corrections / 'Make Up'. ➢ Bring Strategies for Creative Problem Solving book to class !		➢ Quiz on Chapter 6. ➢ INDIVIDUALY read the problem statement for "Food for Thought" exercise. ➢ Perform the task, develop the work product. ➢ INDIVIDUALS read, TEAMS improve. ➢ TEAM presents ... to a neighboring TEAM. ➢ Announce the defect removal assignment **Reading Assignment for Con. C6-1** ➢ Page 151 and Sections 7.2 and 7.3 Chapter 7 in Strategies book. **Assignment for Con C6-1** ➢ Prepare for the Quiz on reading materials. ➢ Bring Blue Workbook to Class!

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#10 *SES #L5-1*		*W#10* *SES#L5-2*
➤ Presentation of your Work to Class. ➤ 2nd Design Notebook Assessment using second checklist. ➤ Assignment L3-C on KT Decision Analysis. ➤ Celebration announcement **Assignment for Next Lab *L6-1*** ➤ Fix up any NI's or NCE's you received on your first Team Process Checks (L-4). ➤ Second Team Process Checks (L-4) is due. ➤ Prepare for Oral Presentations, (even if you gave one this week).		➤ Work on Assignment L3-C. ➤ Celebration announcement **Assignment for Next Lab *L6-1*** ➤ Complete any needed corrections to L3-a & L3-b for Re-submission. ➤ L-3c is due. ➤ Fix up any NI's or NCE's you received on your first Team Process Checks (L-4) and re-submit. ➤ Second Team Process Checks (L-4) is due. ➤ Prepare for Oral Presentations, (even if you gave one this week).

1ˢᵗ Session (*C* =Concepts, *L*= Lab.)		2ⁿᵈ Session (*C* =Concepts, *L*= Lab.)
W#11 *SES #C6-1*		*W#11* *SES #C6-2*

1ˢᵗ Session — W#11 SES #C6-1

- Quiz on Chapter 7.
- Ethics Case 1013 – Hearsay: What's it Worth
- Read Case.
- Prepare KT DA Table.
- Complete KT DA table and select from alternatives.
- Report to class.
- Announce Assignment C-2

Reading Assignment for Con. C6-2

Each team has to bring its selected artifact, selected according to L3-c to class. Bring and a set of tools for dissection.

Reading Assignment for Con. C6-2
- Section H in Blue Workbook Pages H3-H12 and the 'Simple Mechanics Problem' on page J-67 in the Blue Workbook and the three solutions on pages J-68 to J-71.

Assignment for Con. C6-2
Prepare for the Quiz on reading materials.
See Table 1 in Concept First Day Materials for Quiz Corrections / 'Make Up'.
Bring Blue Workbook to class.

2ⁿᵈ Session — W#11 SES #C6-2

- Quiz.
- Assignment C-2 is due
- Assessment - An Introduction.
- LoL & DoI Example.
- Lecture on Reverse Engineering.
- Work on Reverse Engineering Assignment.
- Report out.

Reading Assignment for Con. C7-1

Assignment for next week

- See Table 1 in Concept First Day Materials for Quiz Corrections / 'Make Up'.

1st Session (*C* =Concepts, *L*= Lab.)		2nd Session (*C* =Concepts, *L*= Lab.)
W#12 *SES #L6-1* ➢ Presentation of L3-C Work to class. ➢ Design Notebook Assessment using third checklist ➢ Assignment L3-d (Situation Analysis). ➢ Assignment L3-e. **Assignment for Next Lab _L6-2_** Prepare for more Oral Presentations (even if you gave one today or before).		*W#12* *SES#L6-2* ➢ Presentation of L3-d Work to Class. ➢ Presentation of L3-e Work to Class. ➢ Design Notebook Assessment using fifth checklist. ➢ Celebration Final announcement. **Assignment for _Celebration_** ➢ Design Notebooks are due for final submission. ➢ Each team is required to give a PowerPoint presentation for the entire L3 project. All team members should participate in this presentation.

W#13 *SES #C7-1* **Will be announced in class**		*W#13* *SES #C7-2* **Will be announced in class**
W#14 *SES #L7-1* **Will be announced in class**		*W#14* *SES #L7-3* **THE END**