

- Virtual office hours will be held Wednesday 3:00 p.m. - 5:30 p.m. MST or by appointment. Please email me at salunafong@utep.edu to schedule a meeting.
- Assignments are due by 11:59 p.m. MST on the due date listed in the course schedule. Late submissions will be accepted, up 24 hours after the due date. However, a 50% of the maximum will be deducted from the assignment score.
No assignments will be accepted after 24 hours from the due date.

TENTATIVE COURSE SCHEDULE

The schedule below is subject to change. If for any reason I am required to make any amendments, I will be informing you via Blackboard, email, and MS Teams.

Tentative Schedule

Module	Date	Topic(s)	Assignment
Week 01	Jan 18 th – 24 th , 2022	Introductions and dynamics	Activity #1 deadline: 1/24th, Syllabus, dynamics and introduction.
Week 02	Jan 25 th – 31 st , 2022	Systems Engineering	Activity#2 deadline 1/31st: Article critical review
Week 03	Feb 1 st – 7 th , 2022	Development Lifecycles	Quiz#1: Week 2 and 3 – deadline: 2/7th
Week 04	Feb 8 th – 14 th , 2022	Understanding Stakeholders	Activity#3 deadline 2/14th: Project presentation - introductions
Week 05	Feb 15 th – 21 st , 2022	Review Requirements	
Week 06	Feb 22 nd – 28 th , 2022	Design Definition and Architecture Development	Quiz#2: Week 5 and 6 – deadline: 2/28th
Week 07	March 1 st – 7 th , 2022	Allocating Functions to components	Activity# 4 deadline 3/7th: Project presentation – progress I
Week 08	March 8 th – 14 th , 2022	SYSML 1	Release midterm project
Week 09	March 15th – 21st, 2022	SYSML 2	Quiz #3: Week 8 and 9, deadline: 3/21st
Week 10	March 22 nd – April 4 th , 2022	Review: Project Update	Midterm SEMP UPDATE, deadline: 4/4th Progress II
Week 11	April 5 th – 11 th , 2022	Implementation, Integration, & Transition, Interface Analysis	
Week 12	April 12 th – 18 th , 2022	Verification, Validation, Quality, Test	Quiz #4: Week 11 and 12, deadline: 4/18th
Week 13	April 19 th – 25 th , 2022	Specialty Engineering Decision Analysis and Value Functions	Activity# 5 deadline: 2/28st - Project presentation – progress III
Week 14	April 26 th – May 2 nd , 2022	Operation, Maintenance, Disposal	Quiz #5: Week 13 and 14th, deadline: 5/2nd
Week 15	May 3rd – May 9th, 2022	Project review	SEMP Final Manuscript and Presentation – deadline 5/9th

COURSE MATERIALS

Primarily, you will be searching for authoritative sources, to support the conference-level manuscript.

Example of authoritative sources:

- IEEE Journals
- INCOSE Symposium
- Institute of Industrial and Systems Engineers
- CSER (Conference on Systems Engineering Research Center)
- American Society Mechanical Engineers
- American Institute of Aeronautics Astronautics
- Conference proceedings, journal articles, news articles, government documents, among others.

You may need the following reading materials throughout this course:

- International Council on Systems Engineering. (2015). *INCOSE systems engineering handbook: A guide for system life cycle processes and activities*. Fourth edition. Eds. Forsberg, K. Roedler, G., Walden, D. et. al. Hoboken, NJ: Wiley.
 - (please see the [UTEP Library Guide for MSSE 5345](#) for instructions on creating an INCOSE account to download the handbook)
- BKCase. (2015). *Guide to the systems engineering body of knowledge (SEBoK)*. SEBoK Wiki. SeBokWiki.org. Version 1.4 (available from the [SEBoK website](#))

COURSE REQUIREMENTS

- **Attendance:** Attendance is not mandatory but recommended.
- **Assignments:**
 - A weekly quiz based on INCOSE Handbook chapter. Please see calendar to discuss relevant chapter
 - SEMP updates. Complete the respective section
- **Project(s):** 1 [Final Project](#) will be assigned.
 - Conference-level manuscript indicating contribution and implementation of systems engineering perspective to support the described need.

GRADING PROCEDURES

Grades will be based on the following weights:

Quizzes	15%
Activities	30%
Midterm Report	25%
Final Report	25%
Final Presentation	5%

Final grading rubric will be as followed:

A	90 - 100
B	80-89
C	70 - 79
D	60 – 69
F	< 60

TECHNOLOGY REQUIREMENTS

Required Software:

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint

Optional

- Cameo Systems Modeler
- MS Visio
- IBM Rational Rhapsody

LEARNING ACCOMMODATIONS

The Center for Accommodations and Support Services (CASS) aspires to provide students with disabilities, accommodations and support services to help them pursue their academic, graduation, and career goals. For more information concerning services for students with disabilities, please contact the Center for Accommodations and Support Services at <https://www.utep.edu/student-affairs/cass/>

INCLUSIVITY

Name and Pronoun Usage

As this course includes group work and class discussion, it is vitally important for us to create an educational environment of inclusion and mutual respect. This includes the ability for all students to have their chosen gender pronoun(s) and chosen name affirmed. If the class roster does not align with your name and/or pronouns, please inform the instructor of the necessary changes.

You are expected to treat your instructor and all other participants in the course with courtesy and respect. Disrespectful conduct and harassing statements will not be tolerated and may result in disciplinary actions