Technical Elective – Project Management
Syllabus
Spring 2026

Instructor: Prof. Yang Liu
Credit Hours: 3
Phone: 028-85990100 ext. 242
E-mail: yang.liu@scupi.cn
Office Hours: Monday 4:30 PM - 5:30 PM, Tuesday 1:30 PM - 5:30 PM, Thursday 4:30 PM - 5:30 PM, or by appointment
Office: Room N415, SCUPI Building

Teaching Assistant:

> Yitian Luo
> E-mail: luoyitian@stu.scu.edu.cn
> Phone: 15982487176

Lectures

> Monday, 1:50 PM - 4:25 PM
> S201, SCUPI Building

Textbook   Kerzner Harold, *Project Management: A Systems Approach to Planning, Scheduling, and Controlling*, 10th Edition, John Wiley and Sons, Inc.

Course Description

> This course is an introductory course which provides an overview of project management. Specific topics include organizational structures, management functions, project planning, network scheduling techniques, project graphics, cost control, trade-off analysis, and risk management.

Course Objectives

1. Students will have knowledge of project management.

2. Students will have the ability to apply project management skill to solve real-world problems in different industries.

3. Students will be able to use Microsoft Project.

Learning Outcomes

(a) An ability to apply knowledge of mathematics, science, and engineering
(b) An ability to identify, formulate, and solve engineering problems

(c) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

Pre-requisites none

Grading

Mid-term Exam	20%
Final Exam	30%
Project	20%
Homework	20%
Quiz	10%

Final grades:

Level	Letter Grade	Reported Numerical Score	Grade Points
Superior Performance	A	90 - 100	4.0
	A-	85 - 89	3.7
Meritorious Performance	B+	80 - 84	3.3
	B	76 - 79	3.0
	B-	73 - 75	2.7
Adequate Performance	C+	70 - 72	2.3
	C	66 - 69	2.0
	C-	63 - 65	1.7
Minimal Performance	D+	61 - 62	1.3
	D	60	1.0
Insufficient Performance (Failure)	F	< 60	0.0

Course Policies:

- Students are expected to come prepared for each lecture by reading the appropriate material prior to class
- Questions concerning the grading of homework assignments, project-related materials, or exams must be presented to the instructor or the TA within one week (7 calendar days) after the materials have been made available for return to the student
- Late assignments will **NOT** be accepted, and all assignments, projects, and examinations must be **completed/taken at the scheduled time**. No exceptions will be made unless there are truly extenuating circumstances
- Cheating or academic dishonesty in any form will result in a grade of F for the course; there will be no exceptions to this policy.
- Professional classroom demeanor is required; in particular, all cell phones and personal electronic devices must remain off or silent during the lecture.
- Do not conduct side conversations during the lecture as it is distracting to the lecturer and other students.

Email Policy   Email will be responded as promptly as possible. For detailed technical questions, please talk to the instructor during office hour.

Project

The project is designed to apply project management skills to solve real-world problems. Detail description of the project will be provided during class. Project will be team-based. Evaluation of the project will be based onboth the presentation and the written report.

Audio-Video Recording

To ensure the free and open discussion of ideas, students may not record classroom lectures, discussions, and activities without the advance written permission of the instructor, and any such recording properly approved in advance should be used solely for the student's private use.

Make-up exam Policy

Make-up exam grading is only to replace your final exam grading. Students who pass the course after the make-up exam will receive only a passing grade as the final grade.

Special Accommodations

If the student has a disability for which the student is or may be requesting an accommodation, the student is encouraged to contact the instructor.

Tentative Schedule

Week 1: Introduction to project management
Week 2: Project management educational and
certification programs
Week 3: Project management concepts and definitions
Week 4: Organizational structures
Week 5: Staffing the project team
Week 6: Management functions
Week 7: Introduction to project management software
Microsoft Project
Week 8: Mid-term Exam
Week 9: Working with executives
Week 10: Project planning
Week 11: Network Scheduling Techniques
Week 12: Project graphics
Week 13: Cost control
Week 14: Trade-off analysis
Week 15: Risk management
Week 16: Project presentation
Week 17: Final Exam