**IE 1035 – Engineering Management**

**Fall 2019**

**Course Syllabus**

(Subject to be changed)

# Instructor

Dr. Steve H. Wang (email: steve.wang@scu.edu.cn)

Office: Zone 4, 221

Office Hours: Wednesday 09:10 to 11:55 and 13:50 to 16:25; Thursday 13:50 to 16:25

# Teaching Assistant

Emily Wang （王睿瑞） (email:2016141523002@stu.scu.edu.cn）

Office: TBA or WeChat

Office Hours: TBA or WeChat

**Lecture**

Mondays, 5th to 7th Periods; Zone 4 Room: 201 (Section II)

# Course Description

This course focuses on management theory which may be applied to engineering and technical organizations. Specific topics include: the management process and management functions (planning, organizing, leading, and controlling); project management; managing technical people; engineering ethics, globalization, and/or other contemporary management concepts. In addition to basic lecture of textbook materials, these concepts are strengthened through classroom exercises and discussions of case studies and current events as well as a required book report and group project. Participation in classroom discussions is required. Three credit hours.

**Course Prerequisites**

IE junior status or instructor's permission.

# Course Objectives

1. Learn to work and manage in an engineering environment, i.e., at the intersection of the engineering and management disciplines.
2. Understand and be able to apply the management functions of planning, organizing, leading, and controlling.
3. Learn how to manage the three dependent elements of any project: cost, schedule, and technical performance.
4. Develop an appreciation of the importance of life-long learning.

# Applicable ABET Outcomes

1. An ability to function on multi-disciplinary teams
2. An understanding of professional and ethical responsibility
3. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
4. A recognition of the need for, and an ability to engage in life-long learning
5. A knowledge of contemporary issues

# Textbook

Morse, L.C. and Babcock, D.L. (6th Edition, 2014), *Managing Engineering and Technology*, Pearson Higher Education, Inc., New York.

# Grading

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| --- | --- | --- |
| Participation in Classroom Discussions/Exercises: |  | 10% |
| Assignments: |  | 20% |
| Book Report: |  | 10% |
| Group Project: |  | 20% |
| Examination # 1: |  | 10% |
| Examination # 2: |  | 10% |
| Final Examination: |  | 20% |

# Exams

There will three exams, all are CLOSED BOOK, CLOSED NOTES, CLOSED COMPUTER. If you must miss an exam, you should make alternative arrangements with the instructor before the exam is given. If you miss an exam without prior notification, you will receive a score of

“zero” for that exam except under extenuating circumstances.

# Assignments

Six to eight regular assignments will be given and will be collected at the beginning of class on the due date. Late assignments will not be accepted without prior approval. For problems, show all work for each problem. For case studies or essay style assignments, your responses must be typed and presented in a professional, readable format in an 11 or 12 pt. font (handwritten responses to essay questions will not be accepted). Failure to complete the assignments can have an adverse effect on your final course grade while completing all assignments can improve your final course grade. Because many questions in this course are qualitative in nature and grading of responses can often be somewhat subjective, these assignments are graded as follows:

* 3 points is given for exemplary work
* 2 points is given for good work (no errors and done completely)
* 1 point is given for deficient work (errors and/or incomplete) 1
* 0 points for no submission

By obtaining a 2 on every assignment, you will earn 100% on them. If you average greater than a 2, you can earn up to a maximum of 110% on assignments and offset other grades on exams and project work. If you receive 0s or 1s on any assignment your grade will be lowered accordingly.

# Group Project and Individual Book Report

Each of these will be described in separate handouts as they are assigned.

# Participation

Regular attendance as well as active classroom participation is expected. Any required student absences should be reported to the instructor in advance via email or if not possible in advance, shortly thereafter.

# Avoiding Plagiarism

1. Unacknowledged direct copying from the work of another person, or the close paraphrasing of somebody else's work, is called plagiarism and is a serious offence, equated with cheating in examinations. This applies to copying both from other students' work and from published sources such as books, reports or journal articles.
2. Paraphrasing, when the original statement is still identifiable and has no acknowledgement, is plagiarism. A close paraphrase of another person's work must have an acknowledgement to the source. It is not acceptable for you to put together unacknowledged passages from the same or from different sources linking these together with a few words or sentences of your own and changing a few words from the original text: this is regarded as over-dependence on other sources, which is a form of plagiarism.

# Tentative Course Schedule

