

College of San Mateo
Official Course Outline

1. **COURSE ID:** MGMT 307 **TITLE:** Sustainable Facility Management

Units: 3.0 units **Hours/Semester:** 48.0-54.0 Lecture hours; and 96.0-108.0 Homework hours

Method of Grading: Letter Grade Only

Prerequisite: MGMT 306

Recommended Preparation:

Eligibility for ENGL 100, or Eligibility for ENGL 105

2. **COURSE DESIGNATION:**

Degree Credit

Transfer credit: CSU

3. **COURSE DESCRIPTIONS:**

Catalog Description:

An overview of the challenges of leading and managing the change process for existing facilities, as well as the operational aspects of new sustainable sites and facilities, including the equipment, operating procedures, suppliers, and requirements that a facility manager will encounter. This course addresses how organizations are setting new policies for incorporating “green” or sustainable practices into their asset management strategies.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**

Upon successful completion of this course, a student will meet the following outcomes:

1. Articulate the terminology of sustainable facility management.
2. Describe the methodologies for designing the site and facility for sustainability.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**

Upon successful completion of this course, a student will be able to:

1. Convey the importance of a sustainability perspective and the value of this both in a social perspective and in relation to the individual real estate development and facility management.
2. Apply relevant academic terms and concepts related to sustainable facility management in a professional and scientific manner, and have a well-developed understanding of academic and ethical integrity and critical reflection.

6. **COURSE CONTENT:**

Lecture Content:

- a. Facility Management roles and responsibilities
- b. Standards and regulations for sustainable operations
- c. Sustainable site management practices
- d. Sustainable design of facilities & systems
- e. Commissioning and Re-commissioning
- f. Operations & maintenance practices
- g. Energy management
- h. Waste management
- i. Water management
- j. Indoor air quality
- k. LEED evaluation & certification

7. **REPRESENTATIVE METHODS OF INSTRUCTION:**

Typical methods of instruction may include:

- A. Lecture
- B. Directed Study
- C. Discussion
- D. Field Experience
- E. Guest Speakers
- F. Observation and Demonstration
- G. Work Experience

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

Written project: Evaluation of current LEED certified site or building and retrofit plan for non-sustainable facility.

Reading Assignments:

Textbook and case studies.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

- A. Class Participation
- B. Class Performance
- C. Class Work
- D. Exams/Tests
- E. Field Trips
- F. Group Projects
- G. Homework
- H. Oral Presentation
- I. Papers
- J. Projects
- K. Quizzes
- L. Research Projects
- M. Written examination

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

- A. Mendler, S.F., Odell, W., Lazarus, M.A.. *The HOK Guidebook to Sustainable Design*, 3 ed. Hoboken: Wiley, 2017

Other:

- A. Whole Building Design Guide, National Institute of Building Sciences

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Course Originator: Peter von Bleichert