

OHLONE COLLEGE
Ohlone Community College District
OFFICIAL COURSE OUTLINE

I. Description of Course:

- | | |
|--|---|
| 1. Department/Course: <u>ENGI - 131D</u> | 7. Degree/ Applicability:
Credit, Not Degree Applicable (C) |
| 2. Title: <u>Review of Engineering Concepts</u> | 8. General Education: |
| 3. Cross Reference: | 9. CAN Numbers: |
| 4. Units: <u>1.00</u> | 10. Field Trips: <u>Not Required</u> |
| Lec Hrs: <u>1.00</u> | 11. Requisites: |
| Lab Hrs: <u>0.00</u> | |
| 5. Repeatability: <u>Yes Times:3</u> | |
| 6. Grade Options:
Credit/No Credit Only (CR) | |

12. Catalog Description:

This course is designed to review course content in selected engineering course(s). This course introduces study techniques, problem solving techniques and more in-depth discussions of engineering principles and applications in the selected courses.

13. Class Schedule Description:

Designed to review basic engineering principles, applications and problem solving techniques in selected courses.

14. Counselor Information:

This course is designed to help students who may need mathematical and engineering backgrounds in problem solving. This course is optional to students in regular engineering courses Engi120, Engi130 and Engi140. Students should be enrolled concurrently in the appropriate engineering course.

II. Student Learning Outcomes

The student will:

1. Develop note taking skills after going over certain note-taking hints specific to engineering
2. Perform better on engineering tests and quizzes after going over and practicing the test-taking techniques specific to engineering.
3. Apply the following study strategies to their approach to learning the concepts presented in specific engineering courses. such as the use of: (1)problem-solving techniques (2)concept mapping (3)the use of small study groups. Note: Application of these study techniques will be verified by instructor observation and evaluation of student-developed materials.
4. Demonstrate a better understanding of the engineering principles introduced by correctly responding to review questions and going over more detailed explanation of various engineering concepts

III. Course Outline:

- A. Review of syllabus for concurrent enrollment course
- B. Introduce and practice study techniques
 - 1. Note-taking techniques
 - 2. Identifying the main concept from a lecture and/or reading
 - 3. Review concepts covered in concurrent enrolled course
- C. Study techniques continued
 - 1. Making concept maps
 - 2. Preparing tables and charts to summarize
 - 3. compare and contrast information covered in lecture
 - 4. Test-taking techniques
 - 5. Review concepts covered in concurrent enrolled course
- D. Study techniques continued
 - 1. Researching a topic for a written and/or lab research project
 - 2. Review concepts covered in concurrent enrolled course
- E. Review concepts covered in concurrent enrolled course
 - 1. Question-answer and problem solving sessions
 - 2. Presenting additional examples
 - 3. Reviewing study guides
 - 4. Pre- and Post-test reviews
 - 5. Discuss study techniques that will enhance the learning of specific topics in engineering

IV. Course Assignments:

Reading Assignments

Specific topics covered in concurrent enrolled course

Writing Assignments

None

Projects, Activities, and other Assignments

Solve the assigned Problems

V. Methods of Evaluation:

- A. Participation in Question/Answer.
- B. Problem solving activities.
- C. Regular attendance.

Methods of Instruction:

Discussion

Demonstration

Audiovisual

Self-Paced

Independent Study

Computer Assisted Instruction

Collaborative Learning

Other

Lecture

Solving Problems.

VI. Textbooks:

NONE

VII. Supplies:

1. Study Guides