I. Description of Course:

1. Department/Course: ENGI - 131D
2. Title: Review of Engineering Concepts
3. Cross Reference:
4. Units: 1.00
   Lec Hrs: 1.00
   Lab Hrs: 0.00
5. Repeatability: Yes Times: 3
6. Grade Options:
   Credit/No Credit Only (CR)

7. Degree/ Applicability:
   Credit, Not Degree Applicable (C)
8. General Education:
9. CAN Numbers:
10. Field Trips: Not Required
11. Requisites:

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