

COURSE OUTLINE

Revision: Mike Steffancin, February 2008

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|-----------------|-------------------------|
| DEPARTMENT: | Academic Programs |
| CURRICULUM: | The Natural World |
| COURSE TITLE: | Independent Study |
| COURSE NUMBER: | ENGR 299 |
| TYPE OF COURSE: | Academic Transfer |
| COURSE LENGTH: | 1 quarter |
| CREDIT HOURS: | Variable 1 to 5 |
| LECTURE HOURS: | 0 |
| LAB HOURS: | 0 |
| CLASS SIZE: | Variable |
| PREREQUISITES: | Instructor's permission |

COURSE DESCRIPTION:

Independent study of approved engineering topics.

STUDENT LEARNING OUTCOMES ADDRESSED:

Due to the nature of this course, i.e., a course designed for specific requirements, the following are important components;

1. Computation – Identify, interpret, and utilize higher level mathematical and cognitive skills.
2. Critical Thinking and Problem Solving – Think critically in evaluating information, solving engineering problems and making decisions.
3. Technology – Select and use appropriate technological tools for personal, academic and engineering tasks.
4. Personal Responsibility – Be motivated and able to continue learning and adapt to change.

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STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

5. Information Literacy – Access and evaluate information from a variety of sources and contexts, including technology. Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society.

GENERAL COURSE OBJECTIVES:

To be determined by contracting parties with SSCC.

TOPICAL OUTLINE:

APPROX. HOURS

To be determined by agreement between requesting party and SSCC. Variable

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DATE: February 2008

ENGR 299

Course Prefix and Number: ENGR 299
 Course Title: Independent Study

| SLO # | Included in Course Objective Number | SSCC Student Learning Outcomes |
|---------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| SLO 1.1 | * | Communication - Read and listen actively |
| SLO 1.2 | * | Communication - Speak and write effectively |
| SLO 2.1 | * | Computation - Use mathematical operations |
| SLO 2.2 | * | Computation - Apply quantitative skills |
| SLO 2.3 | * | Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills |
| SLO 3.1 | * | Human Relations - Use social interactive skills to work in groups effectively |
| SLO 3.2 | * | Human Relations - Recognize the diversity of cultural influences and values |
| SLO 4.1 | * | Critical Thinking and Problem Solving - |
| SLO 5.1 | * | Technology - Select and use appropriate technological tools |
| SLO 6.1 | * | Personal Responsibility - Be motivated and able to continue learning and adapt to change |
| SLO 6.2 | * | Personal Responsibility - Value one's own skills, abilities, ideas and art |
| SLO 6.3 | * | Personal Responsibility - Take pride in one's work |
| SLO 6.4 | * | Personal Responsibility - Manage personal health and safety |
| SLO 6.5 | * | Personal Responsibility - Be aware of civic and environmental issues |
| SLO 7.1 | * | Information Literacy - Access and evaluate information |
| SLO 7.2 | * | Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society |

*Variable. It depends on the topic studied.

PREPARED BY: Mike Steffancin
 DATE: May 2008