Florida Institute of Technology

ADDITION A NEW COURSE TO THE CURRICULUM

This course is available for student registration only after the approval process has been completed.

SUBJECT CWE COURSE NO. 3003 CREDIT HOURS 3 TERM TO BE ADDED TO THE FILE Fall 2010

CLASS HOURS LECTURE HOURS LAB HOURS CONTACT HOURS (CEU ONLY)

DEPARTMENT Cooperative Education N/A SCHEDULE TYPE Cooperative Education (V)

☐ COLLEGE OF AERONAUTICS-23 ☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS-25
☐ COLLEGE OF BUSINESS-24 ☐ COLLEGE OF SCIENCE-26
☐ COLLEGE OF ENGINEERING-01 ☐ UNIVERSITY COLLEGE EXTENDED STUDIES-27

COMPUTER TITLE Restricted to 25 characters, including spaces Engineering Coop Ed

CATALOG TITLE Restricted to 150 characters, including spaces

CATALOG DESCRIPTION OF COURSE Limited to 350 characters, including spaces

Prepares students for professional careers. Students work on engineering projects including one or more of the following realistic constraints: economic, environmental, social, political, ethical, health, safety, security and manufacturing. Classifies student as full time. Can be used for a maximum of three credits of technical elective.

In addition, you may attach a course syllabus and/or more detailed description.

REQUIREMENTS ☒ Pre requisite CWE 2001 ☐ Corequisite Course Number

☐ Pre requisite Course Number ☐ Corequisite Course Number

☐ Pre requisite Course Number ☐ Corequisite Course Number

GRADES TO BE ISSUED ☐ A, B, C, D, F ☐ A, B, C, D, F, CEU

☐ CEU ☐ S, U ☐ P, F ☐ Other

ADDITIONAL RESTRICTION Completion of 24 credit hours, 2.5 cumulative GPA and instructor approval

If this course replaces a course currently offered in BANNER, please indicate old course information

SUBJECT Alpha Prefix (e.g., CS 3) COURSE NO. (e.g., 101)

APPROVALS: Upon completion of appropriate department approvals, submit form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval below and forward to Catalog Director.

Originate Date Chair, Graduate Council Date

Department Head/Program Chair Date

Dean or Associate Dean Date

Catalog Director Date

REGISTRAR'S USE ONLY

Those changes/additions have been made to the University/Extended Studies Catalog and entered into the BANNER term named above.

Catalog Director Date

DISTRIBUTION:

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RG-271-5068
Learning Objectives – EPE 3100/CWE 3003

Since most students enrolling in EPE 3100/CWE 3003 are returning to a previous employer, it is suggested that you begin discussing your learning objectives with your supervisor prior to leaving during your second term. If you are going to a new employer for your third term, we suggest you meet with your supervisor early on in your experience for assistance in setting up your learning objectives. Your faculty co-op advisor and your co-op program manager must approve your learning objectives.

What is a Learning Objective?

Learning objectives are statements which clearly and precisely describe what you intend to accomplish during this work term. For satisfactory completion of this course, students are required to submit at least one and no more than three learning objectives that address at least some of the following criteria:

- Applying knowledge of mathematics, science and engineering.
- Designing and conducting experiments, as well as to analyze and interpret data.
- Designing a system, component, or process to meet desired needs.
- Performing on multi-disciplinary teams.
- Identifying, formulating, and solving engineering problems.
- Using modern engineering tools, techniques, and skills.
- Communicating effectively and developing professional and ethical responsibility.

Learning Objectives are statements which clearly and precisely describe what you intend to accomplish during this work term. Each objective should be measurable and contain the following elements:

- A statement of what you expect to achieve through your work experience.
- An indication of the level of achievement which you expect to obtain, expressed if possible in numerical terms.
- How your efforts will be evaluated.

Sample Learning Objectives:

- Design an HVAC modification to a mission-essential chemical storage building at Kennedy Space Center to improve efficiency and maintain equipment safety standards using Microstation CAD software while completing a thorough study of ventilation codes for chemical storage areas.
- Learn aspect oriented programming, multithreading and agile methodology to improve software development skills.
- Design an automated process that continually runs and tests a system that enables communication between web-based programs running on different computers using Java.
• Work on a multi-disciplinary engineering team and develop professional verbal and written communication skills by learning how to convey detailed information to groups of people of various educational backgrounds and skill level.
• Create a model of a thrust measurement system using Pro-E and using mathematical formulas to develop an efficient fuel source.

LEARNING OBJECTIVES – ENGINEERING COOP III

Circle one: Fall Spring Summer Year _______

Student Name: ___________________________ Major: ______________________

Company: ___________________________________________________________

Position: _____________________________________________________________

Learning Objectives:

Approvals:

Supervisor Name: _____________________________ Signature: __________________

Faculty Co-op Advisor: ___________________________ Signature: __________________

Co-op Program Manager: ___________________________ Signature: __________________

Student Signature: ___________________________ Date: ______________________