Florida Institute of Technology

ADDING A NEW COURSE TO THE CURRICULUM

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

SUBJECT: EGN
COURSE NO.: 3050
CREDIT HOURS: 1-3
TERM TO BE ADDED TO THE FILE: Spring 2012

CLASS HOURS: 1-3/week
LECTURE HOURS: 1-3/week
LAB HOURS: 
CONTACT HOURS: (CEU ONLY)

DEPARTMENT: College of Engineering
SCHEDULE TYPE: Special Projects/Topics (S)

☐ COLLEGE OF AERONAUTICS – 23
☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS – 25
☐ NATHAN M. BISK COLLEGE OF BUSINESS – 24
☐ COLLEGE OF SCIENCE – 26
☒ COLLEGE OF ENGINEERING – 1
☐ EXTENDED STUDIES DIVISION / NATHAN M. BISK COLLEGE OF BUSINESS – 90

COMPUTER TITLE: Restricted to 25 characters, including spaces
Undergraduate Research

CATALOG TITLE: Undergraduate Research in Engineering and Applied Sciences

CATALOG DESCRIPTION OF COURSE: Restricted to 350 characters, including spaces

Includes students conducting research under faculty supervision in programs offered by the College of Engineering. Requires students to complete a project proposal and present results in a final report. (Requirements: GPA of 3.4 or higher and college faculty and associate dean approval.)

This description has been approved by the catalog office

Catalog Director

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

Restrictions:
☒ Prerequisite: MTH 1002
☐ Corequisite: 
Course Number

☒ Prerequisite: PHY 1001
☐ Corequisite: 
Course Number

☐ Prerequisite: 
Course Number

GPA ≥ 3.4 and Deans approval

Grades to be issued:
☒ A, B, C, D, F
☐ A, B, C, D, F, CEU/audit
☐ CEU
☐ S, U
☐ P, F
☐ Other

Additional Restrictions:

If this course replaces a course currently offered in BANNER, please indicate old course information and the date/term the course may be removed from the system.

SUBJECT: EGN
COURSE NO. (e.g., 1201)
TERM TO INACTIVATE:

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.

Chair, Graduate Council

Dean of Associate Dean

Catalog Director

These changes/additions have been made for the University Catalog/policy management system and entered into the BANNERterm named above.

Catalog Director

Florida Institute of Technology • Office of the Registrar
150 West University Boulevard, Melbourne, FL 32901-6975 • (321) 674-8114 • Fax (321) 674-7827

COLLEGE OF ENGINEERING
2012-13 Catalog Data: EGN 3050 Undergraduate Research. (1-3 credits). Includes students conducting research under faculty supervision in programs offered by the College of Engineering. Requires a project proposal and results presented as a final report.

Required: Elective

Prerequisites by Topic: GPA equal to or above 3.4 and college faculty and Associate Dean approval.

Textbook (T) and References (R): (T) None; (R)

Course Learning Outcomes: The student will be able to:
1. Examine and interpret an engineering problem.
2. Prepare a proposal to conduct research.
3. Develop alternatives and complete tasks.
4. Identify and analyze requisite components of a research project.
5. Prepare appropriate figures and graphs using modern engineering tools.
6. Organize and function as a member of a team.
7. Organize and deliver effective verbal, written and graphical technical communications.
8. Describe and evaluate ethical, and safety issues encountered or foreseen.
9. Demonstrate knowledge of contemporary issues contained or caused by selected research.
10. Demonstrate an understanding of life-long process as it relates to the engineering profession.

Topics Covered:
Topics will vary as a function of the project. Students may work in the laboratory and/or field while others may do computer simulations or analysis of data.

Class Schedule:
Minimum of one meeting per week with faculty or research team.

Contribution of Course to Meeting the Professional Component:
Engineering Science: 1-3 credits
Design Content: none

Relationship of Course to Program Outcomes: See next page.

Prepared By: Edward H. Kalajian, PhD, P.E., Professor of Civil Engineering, 11/3/2011
Stephani B Cuddie

From: Marshall Jones
Sent: Friday, April 06, 2012 12:48 PM
To: Stephani B Cuddie
Subject: FW: Couple of courses tabled at UGCC - ENG 3050 and ECE 3442

fwi

From: Edward Kalajian
Sent: Friday, April 06, 2012 10:40 AM
To: Marshall Jones
Cc: kaner; Rhoda Baggs; Edward Kalajian; Howell Heck; Ivica Kostanic; James Brenner; Kevin Johnson; Chelakar Subramanian; Sheila Marie Rodriguez; William Arrasmit
Subject: RE: Couple of courses tabled at UGCC - ENG 3050 and ECE 3442

Dear Marshall,

With respect to the requirement for pre-requisites for ENG 3050, please add MTH 1002 and PHY 1001 as pre-requisites. Please also share with the committee that a requirement for enrollment in EGN 3050 is a GPA = or > 3.4 and approval of the COE Dean's office.

Ed

Very Truly Yours
Edward H. Kalajian, Ph.D, P.E.
Professor, Civil Engineering
Associate Dean, College of Engineering
Florida Institute of Technology
150 W. University Blvd., Melbourne, FL, 32901-6975
321-674-8020 FAX 321-674-7270
kalajian@fit.edu

From: Marshall Jones
Sent: Monday, March 26, 2012 9:42 AM
To: John Hadjiilogou
Cc: Edward Kalajian
Subject: Couple of courses tabled at UGCC - ENG 3050 and ECE 3442

Hello Gentlemen,

I wanted to email about the revision to prerequisites for ECE 3442 (Electromagnetic Waves) and the new course ENG 3050 (Undergraduate Research) which we both tabled in past UGCC meetings.

ECE 3442 was tabled waiting for a rationale of the removal of the prerequisite ECE 2112. There was not anyone at the meeting who knew the details.

EGN 3050 was tabled because it is a new upper level course with no prerequisite. We have been requesting upper level new courses have either a prerequisite or articulation why there is not a prerequisite.

We meet this Friday and then gain next month to end the year. I wanted to make sure to check with you and get them back on the agenda. I will be sending the agenda tonight or in the morning so if you want to send me rationales, or ask
the appropriate person to do so, I will gladly put on for this month. Otherwise we can put it on the end of year meeting in April.

Regards

Marshall Jones