Date: Feb. 15, 2013

To: Marshall Jones, Undergraduate Curriculum Committee
From: Dr. Laszlo Baksay, Head, Dept. of Education & Interdisciplinary Studies
Via: Dr. Hamid Rassoul, Dean, College of Science
Re: Proposed new Bachelor of Science in Sustainability Studies

The following transmittal documents have received approval by the COS Dean’s office, Office of Institutional Compliance, and first approval by the Chief Operating Officer.
- New Program Major Form, Bachelor of Science in Sustainability Studies
- New Course Forms (x3) with syllabi

The following supplementary materials are attached:
- Program Summary
- Full Program Proposal

Thank you for your consideration.
**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**: 0

**COURSE NO.**: 0

**CREDIT HOURS**: 0

**TERM TO BE ADDED TO THE FILE**: Fall 2013

**CLASS HOURS**: 0

**LECTURE HOURS**: 0

**LAB HOURS**: 0

**CONTACT HOURS (CEU ONLY)**: 0

**DEPARTMENT**: Education & Interdisciplinary Studies

**SCHEDULE TYPE**: Lecture [A]

**COLLEGE OF AEROSPACE - 23**

**COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS - 25**

**NATHAN M. BISK COLLEGE OF BUSINESS - 24**

**COLLEGE OF SCIENCE - 26**

**COLLEGE OF ENGINEERING - 3**

**EXTENDED STUDIES DIVISION / NATHAN M. BISK COLLEGE OF BUSINESS - 90**

**COMPUTER TITLE**: Restricted to 25 characters, including spaces. Nonprofit Operations

**catalog Title**: Nonprofit Corporate Operations

**catalog description**: Restricted to 250 characters, including spaces. Details the fundamental operational principles of nonprofit corporations. Examines administrative, legal and functional comparisons with for-profit corporations. Covers the theory and practice of the diverse roles of nonprofits in the achievement of sustainability products. Explores the evolution of nonprofits in terms of potential innovations.

This description has been approved by the catalog office.

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**Restrictions**: Restricted to 250 characters, including spaces.

**REQUIREMENT**: Restricted to 250 characters, including spaces.

**FINISHED**: Restricted to 250 characters, including spaces.

**ADDITIONAL RESTRICTION**: Restricted to 250 characters, including spaces.

**FINISHED**: Restricted to 250 characters, including spaces.

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**APPROVALS**

On completion of description and course number verification, attaching appropriate signatures as indicated, and submit completed form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval.

**Chair, Graduate Council**: 2/12/3

**Chair, Undergraduate Curriculum Committee**: 2/13/3

**Dean of Graduate Studies**: 2/13/3

**Dean of Undergraduate Studies**: 2/13/3

**Associate Vice President for Institutional Compliance**: 2/13/3

**REGISTRAR'S USE ONLY**

**SCGRSFS**: SCAHRI

**SCAMLQ**: SCAHAE

**SCGRSB**: Operator Init., Date

**Catalog Director**: 2/13/3

**DISTRIBUTION**

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FIGURE 102
Non-profit Corporate Operations (ISC 3200) - Syllabus

Course Description:
Fundamental operational principles of non-profit corporations are examined with a focus on past and current trends. Diverse examples of NGOs and civil-society organizations are examined in the U.S., Europe, South America, Asia and elsewhere. Best practices in administration, board management, and strategic planning are detailed. Comparisons with for-profit corporations are developed. The interdisciplinary roles of non-profits in the achievement of sustainability products are examined in theory and practice. The recent evolution of non-profits is explored in terms of future challenges and innovations.

Class Information and Instructor
Credit hours: 3
Pre-Requisites: ISC 1500, Introduction to Sustainability
Days/Time: Spring semester
ANGEL will be the course web portal for registered students.
Instructor:
Office Hours:

Reading Materials
Textbook:

Reading will also be used from materials including:
The course will also include technical journal articles, government and NGO reports, and current articles from print media. These readings and assigned chapters from the books will be posted on ANGEL.

Student Learning Outcomes include
- Ability to distinguish fiscal, legal, and administrative attributes of non-profit and for-profit organizations.
- Understanding of the historical role of non-profits and civil society organizations in US and global sustainability initiatives.
- Experience with non-profit business plan construction
- Experience with deliverable prioritization, campaign planning and messaging.
- Familiarity with principles of board of director management and strategic planning.

Grading:
30% Homework and Quizzes
20% Midterm
25% Project – Build a non-profit corporate business plan
25% Final exam
– Students can sharpen your writing skills with this tutorial: http://www.bristol.ac.uk/arts/exercises/grammar/grammar_tutorial/index.htm
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 CODE: 1500 C 09 COURSE NO.: 9999 CREDIT HOURS: 1
TERM TO BE ADDED TO THE FILE: Fall 2013

CLASS HOURS: 15 LECTURE HOURS: 15 LAB HOURS: 0 CONTACT HOURS (REL ONLY):

DEPARTMENT: Education & Interdisciplinary Studies
SCHEDULE TYPE: Lecture (A)

☐ COLLEGE OF AERONAUTICS - 33
☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS - 25
☐ NAMANIA BUSH COLLEGE OF BUSINESS - 24
☐ COLLEGE OF SCIENCE - 26
☐ COLLEGE OF ENGINEERING - 1
☐ EXTENDED STUDIES DEPARTMENT / NAMANIA BUSH COLLEGE OF BUSINESS - 91

COURSE TITLE: Sustainability Proj Design
DUAL/PRE- H, B, H-Level, Full-Load? ☐ Yes ☑ No

CATALOG TITLE: Sustainability Project Design

CATALOG DESCRIPTION: (Resided max 350 characters, including spaces)

Develop basic components of project and team management. Requires design of a sustainability project by a team or individual in preparation for the sustainability capstone project in ISC 4000. Includes evaluation of multiple alternatives and presentation of a schedule and cost estimate.

This description has been approved by the catalog office

Catalog Director

In addition, please attach a course syllabus for more detailed description.

RESTRICTIONS
☐ Prerequisite: ISC 1500 ☐ Corequisite: Course Number
☐ Corequisite: Course Number and or or
☐ Corequisite: Course Number and or or

ADDITIONAL RESTRICTION

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: Interdisciplinary Studies COURSE NO.: 9999 TERM TO INACTIVATE:

☐ Yes ☐ No Will this course be used to measure program-level student learning outcomes? If 'yes,' indicate vice president for institutional accreditation signature required.

APPROVALS: On completion of description and course number verification, affix appropriate signatures as indicated, and submit completed form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval.

Chair, Graduate Council
Date: 2/13/13

Chair, Undergraduate Curriculum Committee
Date: 2/13/13

Associated Vice President for Institutional Accreditation

Catalog Director

These changes/additions have been made for the University Catalog and entered into the BANNER term listed above.

Catalog Director

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SCANRS: ☐ Operative link Date:

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Sustainability Project Design (ISC 3999) - Syllabus

Course Description:
Basic components of project management are developed to support the initial design of an individual or team sustainability project. This 1 credit course prepares students for the sustainability capstone project in ISC 4000. The project planning can be on or off the F.I.T. campus. Students evaluate multiple alternatives and develop a detailed product, timeline, cost-estimate, and long term operations plan.

Class Information and Instructor
Credit hours: 1
Pre-Requisites: ISC 1500; ISC 3200
Days/Time: Fall semester
ANGEL will be the course web portal for registered students.
Instructor:
Office Hours:

Reading Materials

Course readings will also include:
- Technical journal articles, government and NGO reports, and significant current articles from print media.
- These readings and assigned chapters from the books will be posted on ANGEL.

Student Learning Outcomes include
- Understanding of the theory and the practice of project design and planning.
- Experience with scoping of alternatives and the building of sustainability best practices into project design.
- Experience with the building of timelines and cost-estimates for projects.
- Understanding of the roles of internal and external communication in successful project development, funding and implementation.

Grading:
30% Homework
20% Midterm
20% Project Updates
30% Final Project – Design of capstone sustainability project to implement in ISC4000.
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ADDING A NEW COURSE TO THE CURRICULUM

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

SUBJECT ____________ 8  C  COURSE NO. ____________ 4  5  9  CREDIT HOURS ____________ 9  TERM TO BE ADDED TO THE FILE ____________ Fall 2013

CLASS HOURS ____________ 45  LECTURE HOURS ____________ 45  LAB HOURS ____________  CONTACT HOURS (CLEU ONLY) ____________

DEPARTMENT ____________________________ SCHEDULE TYPE ____________________________ (A)

☐ COLLEGE OF AERONAUTICS - 73  ☐ COLLEGE OF PSYCHOLOGY AND LIBERAL ARTS - 75
☐ NATANAM M. RISK COLLEGE OF BUSINESS - 74  ☐ COLLEGE OF SCIENCE - 26
☐ COLLEGE OF ENGINEERING - 71  ☐ EXEMPTED STUDIES DIVISION / NATANAM M. RISK COLLEGE OF BUSINESS - 70

COMPUTER TITLE Restricted to 25 characters, including spaces ____________________________ Sustainability Economics

CATALOG TITLE ____________________________ Sustainability Economics

CADASTRAL DESCRIPTION OF COURSE Restricted to 350 characters, including spaces Survey of emerging topics in sustainable business and ecological economics. Includes measurement of social and environmental capital via triple bottom-line accounting and other tools. Covers the economics of renewable and fossil energy and carbon accounting, and the behavior of coupled systems when externalities are included.

This description has been approved by the catalog office.

Catalog Director

GRADING TO BE ISSUED
☐ A, B, C, F, D, P  ☐ A, B, C, D, E, F, S, U, S, U, CR/DR
☐ CEU  ☐ CRN
☐ S, U  ☐ R, F
☐ Other

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

SUBJECT ____________ 8  C  COURSE NO. ____________ 4  5  9  TERM TO INACTIVATE ____________

☐ Yes  ☐ No

Will this course be used to measure program level student learning outcomes? If yes, associate vice president for institutional compliance signature required.

APPROVALS: On completion of description and course number verification, attach appropriate signatures as indicated, and submit completed form to Chair, Graduate Council, or Chair, Undergraduate Curriculum Committee for approval.

Chair, Graduate Council

Department Head/Program Chair

Chair, Undergraduate Curriculum Committee

Associate Vice President for Institutional Compliance

CATALOG DIRECTOR

These changes/additions have been made to the University Catalog and entered into the BANNER term listed above.

Catalog Director

REGISTRAR'S USE ONLY

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ORIGINAL - Registrar

CAMPUS - Academic Unit

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BOR 05/05/10
Sustainability Economics (ISC 4350) - Syllabus

Course Description:
Available to undergraduate and graduate students wishing to learn the theory and practice of sustainability economics (often termed ecological economics) within their specific areas of interest. Surveys emerging topics in sustainable business and ecological economics. Examines the measurement of social and environmental capital via triple bottom line accounting, corporate social responsibility, and other approaches. Details the socioeconomics of renewable and fossil energy, including carbon accounting. Examines the behaviors of coupled systems when externalities are included: flow-stock dynamics, feedback loops, limits, critical loads, tipping points, and resilience. Indicators to measure sustainability within differing disciplines will be examined and utilized. Emphasis will be on applications within and across differing disciplines.

Class Information and Instructor
Credit hours: 3
Pre-Requisites: MTH 1001 or MTH 1702; BUS 4426 (allowed as a co-requisite)
Days/Time: Spring semester
ANGEL will be the course web portal for registered students.
Instructor:
Office Hours:

Reading Materials

Course readings will also include technical journal articles, government and NGO reports, and significant current articles from print media. These readings and assigned chapters from the books will be posted on ANGEL.

Student Learning Outcomes include
- Ability to qualitatively or quantitatively characterize the issues in the course description.
- Experience with the measurement of business sustainability using indicators and other tools.
- Ability to quantitatively report on sector-specific sustainable business practices
- Recognition of uncertainty envelopes and constraints on predictive knowledge.
- Experience in abstract and applied economic evaluation of challenges and solutions.
- Messaging skills needed to deliver business sustainability information to diverse audiences.

Grading:
30% Homework and Quizzes
25% Midterm
20% Project – triple bottom line accounting project with focus on carbon accounting.
25% Final exam

Students can sharpen your writing skills with this tutorial:
http://www.bristol.ac.uk/arts/exercises/grammar/grammar_tutorial/index.htm

Classroom Protocol
- Students should enter class prepared to critically assess the latest assigned reading.
- Class participation is important. All students should contribute to classroom discussion.
- On-time attendance at each class meeting is expected.