



Name: Roberto M Uribe-Rendon

Submission Date: 5/8/2014



Organization: Dean AEST

Course Catalog Update[<< Go back to Course Catalog Update form](#)[Print](#)**Course Catalog Update Information:**

STU0004

Reference Number: CCU007349**Date:** 08-MAY-14**Level:** of**Currently On The Worklist Of:** , unassigned**Owner:** Office of Curriculum Services, 330-672-8558 or 330-672-8559, curriculum@kent.edu

Basic Course Data		
Change type: Revise		
Faculty member submitting this proposal:		
Requested Effective Term: 201580		
Campus: Kent		
College: AT-College of Applied Engineering, Sustainability and Technology		
Department: AEST-Applied Engineering, Sustainability and Technology		
Course Subject: TECH-Technology		
New Course Subject:		
Course Number: 27210		
New Course Number:		
Course Title: INTRODUCTION TO SUSTAINABILITY		
Title Abbreviation: INTRODUCTION TO SUSTAINABILITY		
Slash Course and Cross-list Information:		
Credit Hours		
Minimum Credit/Maximum Credit: 3 to 3		
Contact Hours: Lecture - Minimum Hours/Maximum Hours: 3 to 3		
Contact Hours: Lab - Minimum Hours/Maximum Hours:		
Contact Hours: Other - Minimum Hours/Maximum Hours:		
Attributes		
Is this course part of the LER, WIC or Diversity requirements: Yes		
If yes, course attributes: 1. LADL-LER-Additional Course 2. 3.		
Can this course be repeated for credit: No Repeat	Course Limit:	OR Maximum Hours:
Course Level: Undergraduate	Grade Rule: B-Standard letter	
Rationale for an IP grade request for this course (if applicable):		
Schedule Type(s): 1. LEC-Lecture 2. 3.		
Credit by Exam: N-Credit by exam-not approved		
Prerequisites & Descriptions		
Current Prerequisite/Corequisite/Catalog Description: Introduces the students to the concepts of sustainability and its three pillars, namely, economic growth, environmental protection, and social equality. Students taking the course will understand the language and concepts of sustainability and will acquire the knowledge to further study sustainability. Prerequisite: none.		
Catalog Description (edited):		
Prerequisites (edited):		
Corequisites (edited):		
Registration is by special approval only: No		
Content Information		
Content Outline:		
Content Hours per Course	Topic Description	
Topic		

3	Introduction; the impact of human activity on environment (the IPAT equation); human consumption patterns and challenges
3	Climate and global change. Solar and El Nino cycles
6	Effect of human activity on the biosphere the biogeochemical cycles, the flow of energy in the Earth system, and the loss of species.
6	Physical resources; technologies for water, and pollution control.
3	Use of technology for the management of the environment. Systems on waste management and the Laws on the environment. e-waste
9	Sustainable energy systems. Energy sources and carrier. The conversion of biomass into biofuel; Energy uses
6	Problem solving, metrics and tools. Life cycle assessment, derivative life cycle concepts. Sustainability metrics; footprinting
6	Sustainability infrastructure. The Sustainable City; Buildings; Energy practices; transportation; stormwater management
3	Sustainability ethics, culture and history

[Display/Hide Delimited Course Outline](#)

Total Contact Hours: 45

Textbook(s) used in this course: Textbook(s) used in this course: Sustainability: A Comprehensive Foundation; University of Illinois Open Source Textbook (2012)

Writing Expectations: Writing essays about different projects related to Sustainability

Instructor(s) expected to teach: Approved AET faculty

Instructor(s) contributing to content: Yanhai Du, Michael Fisch, Darwin Boyd, and Roberto Uribe

Proposal Summary

Explain the purpose for this proposal:

Update information about the course content to add it to the Kent Core

Explain how this proposal affects program requirements and students in your unit:

No effect

Explain how this proposal affects courses, program requirements and student in other units:

No effect

Explain how this proposal affects enrollment and staffing:

The proposal will very likely increase enrollment in the course and the College. As enrollment increases we might need to hire additional adjunct faculty.

Units consulted (other departments, programs or campuses affected by the proposal):

Physics, Biological Science, Chemistry, and the College of Arts and Sciences

Revisions made to form (if applicable):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Course Content | <input type="checkbox"/> Number |
| <input type="checkbox"/> Credit by Exam | <input type="checkbox"/> Prerequisites |
| <input type="checkbox"/> Credit Hours | <input type="checkbox"/> Schedule Type |
| <input type="checkbox"/> Cross-Listed / Slash | <input type="checkbox"/> Subject |
| <input type="checkbox"/> Description | <input type="checkbox"/> Title |
| <input type="checkbox"/> Diversity | <input type="checkbox"/> Title Abbreviation |
| <input type="checkbox"/> Grade Rule | <input type="checkbox"/> Writing-Intensive (WIC) |
| <input checked="" type="checkbox"/> Liberal Education Requirement (LER) | <input type="checkbox"/> Other |

Comments (500 Character Maximum):

NOTE: Please do not use the following restricted characters: (~ * / \ --)

You must click the submit button to submit your catalog update request for approval. After the document is successfully submitted, a printable confirmation page will appear.