

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

**COURSE NUMBER – COURSE NAME
GMMD 421 – SUSTAINABILITY DESIGN**

Created by: Matt Burnett

Updated by: Matt Burnett

Canino School of Engineering Technology

Department: Graphic and Multimedia Design

Semester/Year: Fall 2018

A. **TITLE:** Sustainability Design

B. **COURSE NUMBER:** GMMD 421

C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3

Lecture Hours: 2 per week

Lab Hours: 2 per week

Other: per week

Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** Yes No

E. **GER CATEGORY:** None: Yes: GER
If course satisfies more than one: GER

F. **SEMESTER(S) OFFERED:** Fall Spring Fall & Spring

G. **COURSE DESCRIPTION:**

Sustainability Design is a cross disciplinary study of the issues and efforts surrounding ecological crisis and the move towards sustainability in contemporary design. In this seminar course, students will investigate sustainability issues through lectures from several disciplinary angles, including the sciences, legal studies, economics, humanities and engineering, Following study and discourse around the problems and goals of sustain ability, students will work with faculty to develop a semester long independent project pursuing some of these goals.

H. **PRE-REQUISITES:** None Yes If yes, list below:

CO-REQUISITES: None Yes If yes, list below:

I. STUDENT LEARNING OUTCOMES: (see key below)

By the end of this course, the student will be able to:

<u>Course Student Learning Outcome</u> <u>[SLO]</u>	<u>Program Student Learning Outcome</u> <u>[PSLO]</u>	<u>GER</u> <i>[If Applicable]</i>	<u>ISLO & SUBSETS</u>	
Evaluate contemporary theories of the issues problems and goals surrounding ecological sustainability	Content Knowledge		2-Crit Think 3-Found Skills 4-Soc Respons	IA QTR Subsets Subsets
Research, visit and share institutional and professional resources regarding sustainability	Content Knowledge		2-Crit Think 4-Soc Respons 5-Ind, Prof, Disc, Know Skills	IA ER GL Subsets
Synthesize critical questions, findings, and ideas surrounding sustainability from seminar course presentations	Design Process Interpretation		2-Crit Think 3-Found Skills ISLO	IA QTR None Subsets
Create and implement a semester long project in pursuit of identified sustainability goals.	Design Process		1-Comm Skills 2-Crit Think 4-Soc Respons	IA PS GL T
Create and present a professional presentation/paper that summarizes their research, process and results.	Professional Detail		1-Comm Skills 5-Ind, Prof, Disc, Know Skills ISLO	O Subsets Subsets Subsets
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KEY	<u>Institutional Student Learning Outcomes [ISLO 1 – 5]</u>
ISLO #	ISLO & Subsets
1	Communication Skills Oral [O], Written [W]
2	Critical Thinking <i>Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]</i>
3	Foundational Skills <i>Information Management [IM], Quantitative Lit./Reasoning [QTR]</i>
4	Social Responsibility <i>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</i>
5	Industry, Professional, Discipline Specific Knowledge and Skills

*Include program objectives if applicable. Please consult with Program Coordinator !

J. **APPLIED LEARNING COMPONENT:** Yes No

If YES, select one or more of the following categories:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Classroom/Lab | <input type="checkbox"/> Civic Engagement |
| <input type="checkbox"/> Internship | <input type="checkbox"/> Creative Works/Senior Project |
| <input type="checkbox"/> Clinical Placement | <input checked="" type="checkbox"/> Research |
| <input type="checkbox"/> Practicum | <input checked="" type="checkbox"/> Entrepreneurship |
| <input type="checkbox"/> Service Learning | (program, class, project) |
| <input type="checkbox"/> Community Service | |

K. **TEXTS:**

At discretion of the instructor

L. **REFERENCES:**

McKibben, Bill Eaarth (Making a Life on a Tough New Planet) Times Books, Henry Holt and Company, NY, NY

McKibben, Bill Deep Economy (the Wealth of Communities and the Durable Future) Times Books, Henry Holt and Company, NY 2007

Shepard, Paul Man in the Landscape University of Georgia Press 2002 Copyright 1967

Gore, Al Earth In Balance: Ecology and the Human Spirit Rodale Books 2006 Copyright 1992

Carson, Rachel Silent Spring Mariner Books, Anniversary edition 2002 copyright 1962

M. **EQUIPMENT:** None Needed: X

LCD projector and whiteboard

N. **GRADING METHOD:** A-F

Graded Essays

Participation in face to face and online reviews

Periodic presentation and revision of semester project

Checktests for lectures and readings

Evaluation of semester long project, presentation, and paper

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

P. **DETAILED COURSE OUTLINE:**

- I. - **A Brief History: The Emergence of Conservation Ideals In American Culture**
- II. **Sustainability, Technology, Resourcism and Renewable Energy**
- III. **Environmental Law: Litigation and Responsibility from the Individual to the International**
- IV. **Environmental Issues, Awareness and Media**
- V. - **The Economics of Sustainability**
- VI. **The Burgeoning Environmental Crisis: Invasive species to Climate Change**
- VII. **Project Development and Proposals, Second Reader, Timeline, Revision and Approval**
- VIII. **Project implementation and periodic review**
- IX. **Project completion and Presentation, final presentations and evaluation**

- Q. **LABORATORY OUTLINE: None Yes**