



Stony Brook University

Department of Technology & Society

EST 440, Interdisciplinary Research Methods

Prerequisites: EST 391 and TSM major

Meeting Time: Tuesdays and Thursdays 10am-11:20am

Meeting Location: Computer Science 1310

Instructor: Dr. Thomas S. Woodson

Email: thomas.woodson@stonybrook.edu

Website:

https://www.stonybrook.edu/commcms/est/people/core_faculty/twoodson.php

Office Hours: Tuesdays and Thursdays

11:30am-1pm and by appointment

Office Location: Computer Science 1410

Course Description: This course uses scientific research and engineering technology problem-solving as a framework for the synthesis of diverse disciplines studied by students in the first three undergraduate years. Provides students with experience in team problem-solving. Students will work in teams to conduct a technology assessment. Examples of various types of technology assessments will be studied, and students will discuss analysis techniques and team structuring in order to plan and execute a successful project.

Learning Objectives: The ability to research a technology related topic and present the information is a basic skill expected of all students in the Technological Systems Management program. At the end of this course, students should be able to:

- Initiate, conduct, and complete research on general technological subjects, incorporating material that cuts across disciplinary boundaries
- Work together as a team to present oral and written material
- Understand the process of “technology assessment”.
- Read and analyze lengthy descriptions of complex technological processes and policies

Class Readings:

Innovation and It's Enemy's by Calestous Juma

All readings will be posted on Blackboard.

Grading Basis:

Grading will be based on attendance, participation in class discussion, and the project.

Assignments	% of grade
Project: Final Paper	40
Project: Class Lesson	10
Attendance/participation	10
Other assignments	40

GRADES

A: 94-100

A-: 90-93

B+: 87-89

B: 83-86

B-:80-82
 C+:77-79
 C: 73-76
 C-:70-72
 D: 60-69
 F: Less than 60

Late assignments:

Unless otherwise noted, assignments are due BEFORE class on the day that they are due. If the assignment is turned in late, you automatically lose 5% and you will lose another 5% each day the assignment is late. After 2 weeks, you will receive a 0% on that assignment.

Electronics Policy:

Silence/turn off your cell phones during the class. If you have an emergency where you need to keep you cell phone on, tell the professor before class. Please NO TEXTING during class. If you use a computer to take notes, please do not surf the web. It is distracting to the other students and the professor.

Plagiarism

Plagiarism is passing off some else’s work as your own. It consists of copying, intellectual property theft, and unauthorized collaboration. Do not copy material from the web or other sources. Do not use someone else’s ideas or work without sufficient attribution (this means you need to be careful and record “who, what, and where” when researching) (find examples from professional research work for referencing and use that) (do not cite generic websites – www.wikipedia.org – as that is a meaningless reference). Do not work with someone else if the work is supposed to be your own.

Semester Schedule (subject to change):

Date	Tuesday	Date	Thursday
28-Jan	Intro	30-Jan	Writing tips/plagiarism/ Paper Review
4-Feb	Topic Identification	6-Feb	Topic identification
11-Feb	American Academie's Report	13-Feb	Research Day
18-Feb	I&E Intro -1	20-Feb	I&E 2-3
25-Feb	I&E4-5	27-Feb	Research Day
3-Mar	I&E 6-7	5-Mar	I&E 8-9
10-Mar	I&E 10-11	12-Mar	Research Day
Mar 17	Spring Break	Mar 19	Spring Break
24-Mar	Research Day	26-Mar	MDG and topic
31-Mar	Team Meetings/Research Day	2-Apr	Team Meetings/Research Day
7-Apr	Team Meetings/Research Day	9-Apr	Team Meetings/Research Day
14-Apr	Research Day	16-Apr	Student Lessons
21-Apr	Student Lessons	23-Apr	Student Lessons
28-Apr	Student Lessons	30-Apr	Student Lessons
5-May	Student Lessons	7-May	Student Lessons

Student Accessibility Support Center Statement

If you have a physical, psychological, medical or learning disability that may impact your course work,

please contact Student Accessibility Support Center, ECC (Educational Communications Center) Building, Room 128, (631)632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Student Accessibility Support Center. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities>.

Academy Integrity Statement

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of University Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.