EST 441 Interdisciplinary Senior Project
Fall 2018
M. & Fr. 1:00-2:20
Old Comp Sci 1310

Instructor:
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Office Hours: M/Fr 11:30-1:00
or by appointment (check my calendar on my door)

Course Description (from the catalog):
Students carry through to completion their own research, development or product evaluation project
based on the proposal submitted and approved in EST 440. Requires practical steps including garnering
faculty mentorship, creating a schedule, assembling resources, conducting research or working on
prototype, and a final paper and presentation.

Students will select a technology-oriented topic, one that could be related to sustainability. Students will
work individually on the topic and present on their research. A paper will also be produced. We will
closely read a book on what “technology” is, and how new technologies develop.

Learning Outcomes:
Students will improve research and oral and written presentation skills.
Students will learn to carefully analyze a piece of writing in their skill area.
Students will refine their understanding of how technology develops.
Students will improve their ability to speak extemporaneously on technical matters, and in a substantive
fashion.

Book:
Available on-line, through Amazon, etc.

Also:
Posted on BlackBoard.
## Course Schedule

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<tr>
<th>Date</th>
<th>Monday</th>
<th>Date</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>8/27</td>
<td>Intro</td>
<td>8/31</td>
<td>Sustainability Lecture</td>
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<tr>
<td>9/3</td>
<td><strong>Labor Day: No Class</strong></td>
<td>9/7</td>
<td>Referencing discussion</td>
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<td></td>
<td>Read Remote Sensing Report</td>
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<tr>
<td>9/10</td>
<td>Seminar Ch 1</td>
<td>9/14</td>
<td>Select topic</td>
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<td>9/17</td>
<td>Seminar Ch 2</td>
<td>9/21</td>
<td>Research Day</td>
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<td>9/24</td>
<td>Seminar Ch 3</td>
<td>9/28</td>
<td>Research Day</td>
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<tr>
<td>10/1</td>
<td>Seminar Ch 4</td>
<td>10/5</td>
<td>Research Day</td>
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<tr>
<td>10/8</td>
<td><strong>Fall Break: No Class</strong></td>
<td>10/12</td>
<td>Research Day</td>
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<td>10/15</td>
<td>Seminar Ch 5</td>
<td>10/19</td>
<td>Research Day</td>
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<td>10/22</td>
<td>Seminar Ch 6</td>
<td>10/26</td>
<td>Research Day</td>
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<td>10/29</td>
<td>Seminar Ch 7</td>
<td>11/2</td>
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<td>11/5</td>
<td>Seminar Ch 8</td>
<td>11/9</td>
<td>Research Day</td>
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<td>11/12</td>
<td>Seminar Ch 9</td>
<td>11/16</td>
<td>Research Day</td>
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<td>11/19</td>
<td>Seminar Ch 10</td>
<td>11/23</td>
<td>Thanksgiving: No Class</td>
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<td>11/26</td>
<td>Seminar Ch 11</td>
<td>11/30</td>
<td>Research Day</td>
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<tr>
<td>12/3</td>
<td><strong>Presentations</strong></td>
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<td><strong>Presentations</strong></td>
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<td>12/10</td>
<td>Presentations</td>
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<td>12/17</td>
<td><strong>Paper Due, 5 pm</strong></td>
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### Grading Basis:
- **Homework:** 10%
- **Seminar participation:** 10%
- **Presentation:** 30%
- **Paper:** 50%

**Homework:** handing 1 page summary-talking points on readings earns 1 pt ea.

**Participation:** Attending and participating the reading seminars will earn 1 pt (ea.).

**Presentations:** to be 10-12 minutes long. The order of presentations will be determined through a random number generator. There will be 3-4 presentations per class in December. Presentations will be graded based on technical content (50%), organization (25%), aesthetics (20%), and originality (5%+).

Not attending a presentation session will cost 3 pts on your overall grade.

**Papers:** I will provide notes to each presenter, intended to assist in improving the material for the paper. The paper is to be 10-20 pp. long. **Papers are due Dec. 17 at 5 pm.** Papers will be graded based on technical content (50%), organization (25%), aesthetics (20%), and originality (5%+). Paper must be submitted through BlackBoard.

### Grading:
- 90+ = A
- 85-89 = A-
- 80-84 = B+
- 75-79 = B
- 70-74 = B-
- 65-69 = C+
- 60-64 = C
- < 60 = F
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.

There are four reasons why plagiarism should be avoided:

1) University Policy
2) Intellectual Honesty (your name is on the paper, not the source you copy from)
3) Learning Process (explaining things in your own words causes you to think more and more completely about these concepts and facts)
4) We will catch you (there are dire penalties)

Do not plagiarize.

University Required Statements

Americans with Disabilities Act:
If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Academic Integrity:
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 are 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/uaa/academicjudiciary/

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 Judicial Affairs 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.