Technology and Society
COMPUTER SCI 1310

EST 692/590 Research Seminar
Adapted from the course design of Dr. Deb Dwyer
PhD Students - 1 Credit or 3 Credits
Masters Students – 3 credits

Instructor: Professor Gerald Stokes
632-3402
Office Hours: M 10:00-4:00

GOAL:
The goal of this class is to introduce the craft of original research in a collegial and supportive setting. The students will be introduced to many aspects of research, from conceptualization to completed research, allowing them to their research agenda forward, regardless of the stage of their research.

DESCRIPTION: This seminar is a forum for the discussion of research methods, project ideas, proposal preparation and the written and presentation of research proposals and results. It is designed to meet the needs of early career researchers at both the Masters and PhD Level. For Masters students, final product of this seminar is an approved master's project proposal. PhD students will present progress on their own research. All students will participate in peer review of each others’ work and learn the basics of the responsible conduct of research. Pre-Requisite: Enrolled in the PhD. program in Technology, Policy and Innovation, the DTS Masters program in Technological Systems Management or instructor permission.

OBJECTIVES: Upon successful completion of this course, the student will be able to:

1. Critically evaluate journal articles.
2. Write a literature review and identify gaps.
3. Identify a feasible and significant contribution to the literature.
4. Execute basic research methodologies and approaches.
5. Understand the basics of data sources.
6. Present their research for a variety of audiences and forums – orally and in writing
7. Understand the fundamentals of Responsible Conduct of Research
REQUIRED TEXTS:


TEACHING STRATEGIES: Primary strategies will use lectures, readings, in-class discussion and hands-on assignments. Skills will be reinforced through assignments and presentations. This course will be tailored to individual circumstances.

PRE-REQUISITE: NONE

METHODS OF EVALUATION – PhD Students - 3 credits:

1. Presentation (40%)
2. 3-minute thesis (15%)
3. Referee Report (15%)
4. Peer Assessment (15%)
5. Class Participation (15%)

METHODS OF EVALUATION – PhD students 1 credits:

1. Presentation (50%)
2. 3-minute thesis (25%)
3. Class Participation (25%)

METHODS OF EVALUATION – Masters students 3 credits:

1. Presentations (50%)
2. Lit Review (25%)
3. Proposal
4. Class Participation (25%)

Presentation (PhD):

The goal of the presentation, and content, will vary based on stage of research. It is the student’s responsibility to submit reading material one week before their scheduled presentation. All presenters must also submit their goals for the talk. Students with an existing research agenda will be expected to present earlier in the semester. They will present a write-up of their progress to date as well as their goals for the talk (what they
hope to learn to move their agenda forward). Students in need of a research topic may present their referee report, which will be based on a paper they choose in their area of interest (see referee report assignment). They must submit the paper they are reviewing, why they chose this paper, and what they hope to learn from the presentation that might move them toward a research topic.

Presentations are workshop style. Students must prepare to speak for 1 hour, which will be followed by 20 minutes of Q&A.

**Presentation (Masters):**

Masters student will make two presentations. The first will be on the their search for a topic and their initial literature search and the second will be on their project proposal. Each presentation will be 15 minutes long with 5 minutes for questions and answers.

**3-minute Thesis Presentation:**

PhD students will present their 3-minute thesis twice, once in the middle of the terms and once at the end of the term. The presentation should reflect the current state of work on their research.

**Referee Report (Due on the last day of classes):**

Students are encouraged to choose their own manuscript to review, but it must be approved by the instructor. It can be a published or unpublished manuscript. Students will learn the art of reviewing articles for peer-reviewed journals in the classroom, and use the methodology taught to write their own review of an article within their area of research interest. The rubric for the referee report will be:

**Peer Assessment:**

Students will be assigned a presentation to critically evaluate based on criteria provided in the course. They will write up their assessment on a form provided.

**Class Participation:**

Given the workshop style of the course, students will be expected to come to class even when they are not scheduled to present. Students are allowed one unexcused absence without penalty. Any additional absence must be excused by the instructor – preferably in advance. Homework is assigned in order to prepare students for lectures and class discussion. It will be factored into the class participation grade for PhD-3 and Masters students.
COURSE OUTLINE FOR LECTURE COMPONENT (3 CREDITS):

The three hour class will be split into a lecture half and a presentation half. The 1 credit students are required only to participate in the first half. Topics covered in lecture will include:

1. Responsible Conduct for Research (RCR)¹
2. Critical Evaluation of the Literature – Writing a Referee Report
3. Finding a topic: Writing a literature review and identifying a contribution
4. The 3 minute, 5 minute, and 10 minute spiel
5. The 5 sentence paragraph and the elevator speech
6. Conference Style Presentation
7. Workshop/Seminar style presentation
8. Finding, curation and evaluation of data
9. Empirical Strategies
10. Professionalism and Ethics

¹This course covers the 8 hours of RCR face to face training required for research compliance purposes.
UNIVERSITY POLICIES

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, 128 ECC Building (631) 632-6748. They will determine with you what accommodations 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 Disability Support Services. For procedures and information, go to the following web site: http://www.ehs.sunysb.edu and search Fire Safety and Evacuation/Physical Disabilities.

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, as per the SHTM Academic Policies and Procedures.

Plagiarism Policy
Any act of plagiarism will be taken very seriously in this class. Plagiarism is a form of academic dishonesty. Plagiarism is the use of others’ words and/or ideas without clearly acknowledging their source. Plagiarism occurs when a writer uses another person’s words and/or ideas in a paper without giving credit to the original author. As students, you are learning about other people’s ideas in your course texts, your instructors’ lectures, in-class discussions, and when doing your own research. When you incorporate those words and ideas into your own work, it is of the utmost importance that you give credit where it is due.

Plagiarism takes many forms: The form you might be most familiar with is direct copying of another’s words without using quotation marks and/or without citing the source of those words. If you do quote verbatim from another source, always (a) use quotation marks around the words that are not yours and (b) properly cite the source at the end of the quoted material. Other forms of plagiarism are equally problematic and wrong. One such form is rewording parts of an author’s point (but not others) and not citing that source. Any portion, be it ever so small, of another author’s argument must be cited. If you ‘borrow’ phrases from an author, these phrases must be put in quotation marks and properly cited. A third form of plagiarism is when you reword an author’s words entirely but you keep the authors’ original sentence structure and paragraph structure without proper citation. Whenever you rely on other people’s work (which we all do), just make sure to cite their ideas. See the following sites for help understanding plagiarism:

http://www.indiana.edu/~wts/pamphlets/plagiarism.pdf

Plagiarism, intentional or unintentional, is considered academic dishonesty and all instances will be reported to the Academic Judiciary. To avoid plagiarism, you must give the original author credit whenever you use another person’s ideas, opinions, drawings, or theories as well as any facts or any other pieces of information that are not common knowledge. Additionally quotations of another person’s actual spoken or written words; or a close paraphrasing of another person’s spoken or written words must also be referenced. Accurately citing all sources and putting direct quotations – of even a few key words – in quotation marks are required. For further information on plagiarism and the policies regarding academic dishonesty go to the Academic Judiciary website at http://naples.cc.sunysb.edu/CAS/ajc.nsf.
**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 (see plagiarism policy, above). Faculty are required to report any suspected instances of academic dishonesty, as per the SHTM Academic Policies and Procedures.

**Academic Dishonesty**
Intellectual honesty is a cornerstone of all academic and scholarly work, including in an on-line format. Penalties for misconduct may vary according to the circumstances of each particular case. Penalties may range in severity from verbal warning to expulsion from the University with the reason recorded on the student’s permanent transcript. Academic dishonesty is a serious offense and will be treated in accordance with the University’s Policies and Procedures Governing Undergraduate Student Academic Dishonesty, which can be located at [http://www.uhmc.sunysb.edu/studserv/bulletin/03_SHTM2006.pdf](http://www.uhmc.sunysb.edu/studserv/bulletin/03_SHTM2006.pdf)

**Writing Center**
The Stony Brook University Writing Center, located in Humanities room 2009, supports writing at Stony Brook University. Trained undergraduate and graduate writing tutors help writers through one-on-one tutoring sessions that focus on each individual writer's needs. Writers of all skill-levels at any stage of the writing process are invited to make appointments at the Writing Center. Writers can bring in anything they're working on, be it a creative piece, a personal statement, or a paper for class. Tutors will help writers brainstorm, organize, focus, and develop their written works. To make an appointment on-line, go to [http://stonybrook.edu/writrhet/wcabout.shtml](http://stonybrook.edu/writrhet/wcabout.shtml).