CSCI 392-01
Seminar on Computing & Society
Fall 2016

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Office Hours: Tues/Thurs 9:00 – 11:0 am or by appointment

Overview

A seminar course to prepare majors for careers in CS by discussing and studying professional, ethical, legal, and social issues and responsibilities in computing. Local and global impact of computing on individuals, organizations, and society will also be addressed. Oral presentations and written work will be required.
Prerequisites: CSCI 221.

Outcomes:

After completing CSCI 392 students will be able to:

1. Apply legal, ethics, and social consideration in computing projects.
2. Understand legal, ethical, and social issues in computing.
3. Question decisions in computing based on ethical, legal, and professional principles.
4. Present on legal, ethical, and social issues in computing.
5. Understand and apply privacy and security principles in computing projects.
6. Develop a publication or extended abstract on legal or ethical issues in cybersecurity.

Materials

Required book:
None. We will watch videos, read science fiction stories, conference articles, and online blogs related to computer ethics.

Software:
Microsoft Word and Powerpoint. You may also use any other text editor of your choice as long as you can produce pdf files for your reports.

Class Meeting times: Tues/Thurs 16:15 – 17:30
Location: SSMB Room #138

Course Website:
http://mountrouidoux.people.cofc.edu/CSCI392/

Evaluation

Class participation	20%
Homework	30%
Project	50%
Total	100%

Your weighted average will result in a letter grade assigned according to the usual scale: 100-90 (A); 87-89 (A-); 86-84 (B+); 80-83 (B); 79-77 (B-); 76-74 (C+); 73-70 (C); 69-67 (C-); 66-60 (D); else (F)

➢ **Class participation**
  ❖ Class participation will be based on your reading and attending the research presentations.
  ❖ You will need to *actively participate*, not just attend.
  ❖ Active participation means: asking questions and answering questions, participating in the debate that is related to the readings and presentations.
➢ **Homework**
  ❖ Homework will be completed by teams of two students.
  ❖ It will be based on readings and class presentations.
  ❖ You will need to create public blogs related to your reading assignments and talks that you attend.
➢ **Project**
  ❖ The project will be completed by teams of two students.
  ❖ It will include a presentation (20%) and a written essay (30%).

Late Submissions
➢ Deadlines are firm.
➢ You may submit up to two days late with 20% penalty for each day that you are late.
➢ *A score of zero will be assigned to any project/homework that has not been submitted within two days after the deadline.*

Re-grading

If you have a request for re-grading, you need to ask me to re-grade your exam or homework up to one week (five business days) after this has been returned to you. *There will be no re-grading if the test/project that is older than one week.* I reserve the right to re-grade the full test/project. This means that I will not re-grade only the part you have requested, but the whole exam/homework and add or reduce points accordingly.

Attendance
Regular attendance is expected of all students. I take attendance at the beginning of each class session;

however, I do not give you points for attendance. I do not take off points for not attending the class. For any grade to be awarded, participants must attend at least 85% of the class hours. Participants are expected to attend all sessions, **be punctual**, and remain for the duration of each class. In the rare case where some absence is required, make up work will be assigned where it is practical to do so. Attendance is also part of the grading scale. Students may be withdrawn by the instructor if absences violate these guidelines.

Schedule

The schedule is tentative and *subject to change* during the semester.

Week	Date	Topics	Readings due
Week 1	Aug. 21	Introduction to Ethics - ACM Code of Ethics	ACM code of ethics
	Aug. 23	Graduate Studies in CS - Dr. Renee McCauley	
Week 2	Aug. 28	Robots and the future of work	Skilled work without the worker
	Aug. 30	Hospital Readmissions and Other Data Mining Applications in Healthcare - Dr. Ayman Hajja	
Week 3	Sept.4	Ethics Emerging: the Story of Privacy and Security Perceptions in Virtual Reality	Ethics & VR
	Sept. 6	Virtual Production Research Lab - Dr. William Bares	
Week 4	Sept. 11	Privacy	The dead past, Asimov
	Sept. 13	Geographic Information Systems Research - Dr. Norm Levine	
Week 5	Sept. 18	Ethics in the age of Big Data	Weapons of math destruction
	Sept. 20	Data Science Research Lab - Dr. Paul Anderson	
Week 6	Sept. 25	Warbots	Drones and warfare
	Sept. 27	The Future of Cyberspace - Marina Kaljurand	
Week 7	Oct. 2	Robot & Cyborg rights	https://www.youtube.com/watch?v=0FRVMlkgF0Y&t=0s&list=ELEKt5hAOh-

			qeZKc899a_Caw&index=10
	Oct. 4	NASA Space Missions and an Introduction to Astro Statistics/Informatics - Dr. Jon Hakkila	
Week 8	Oct. 9	Social media	The machine stops, E.M. Forster
	Oct. 11	Cyber Infrastructure Research and Development Lab for the Earth Sciences - Dr. Jim Bowring	
Week 9	Oct. 16	Copyright & Intellectual property	https://www.youtube.com/watch?v=X1gmNeNzcto, https://www.youtube.com/watch?v=61lgkb9BC54
	Oct. 18	Cyber Security and Machine Learning Research Lab - Dr. Kris Gosh	
Week 10	Oct. 23	Bug Bounties & Ethical Hacking	https://mashable.com/2018/04/22/meet-ethical-hackers-who-keep-your-data-safe/#wkoRZ7nEjaqR
	Oct. 25	Cyber Security Research Lab Projects - Dr. X	
Week 11	Oct. 30	Technology interfering with genetics	Dolly, by Elizabeth Bear
	Nov. 1	Machine Learning and Biomedical Image Analysis Research Lab Projects - Dr. Brent Munsell	
Week 12	Nov. 6	No class - Fall break	
	Nov. 8	Oceanographic Sea Floor Mapping Research - Drs. Leslie Sautter and Scott Harris	
Week 13	Nov. 13	Honesty, trustworthiness, confidentiality	https://www.youtube.com/watch?v=0hLjuVyIIrs
	Nov. 15	Computer Music and Interaction - Dr. Bill Manaris	
Week 14	Nov. 20	Data, Information, Knowledge, Wisdom; Personhood	https://www.wired.com/story/excerpt-from-automating-inequality/,

			https://www.apex-magazine.com/welcome-to-your-authentic-indian-experience/
	Nov. 22	No class - Thanksgiving	
Week 15	Nov. 27	Retrospective of the class - code of ethics revisited	
	Nov. 29	Bioinformatics Research Group at Wright State University - Dr. Michael Raymer	

Honor Code

I expect you to abide by the Honor Code and the Student Handbook: A Guide to Civil and Honorable Conduct. If you have a question about how to interpret the Honor Code, ask before acting! I encourage collaboration, but you must document it. Thus, each student will submit their own homework and, when collaborating, provide a reference to those people and documents consulted.

What is plagiarism?
The unauthorized use or close imitation of the language and thoughts of another author and the representation of them as one's own original work, as by not crediting the author. *(Source: dictionary.com)*
As you noticed above, I am citing the Internet source from which I used my information. Plagiarism includes using material from the Internet without citing the website from which you got your material. Books, articles and any hard copy sources should be cited as well. Plagiarism is considered cheating.

Plagiarism and coding (what you can and cannot do!):

1. You may look up examples on the Internet.
2. You may NOT copy paste code from the Internet and present it as your own. Avoid copy pasting code from the internet and use this as a last resort ALWAYS with citation to the website that you used.
3. You may use libraries that are included in the Java API.
4. If you plan to use a library that is not on the Java API in a project, you will need to discuss this with me.

Discussing solutions with other students: Make sure you apply the **"empty hand policy",** i.e., do not copy or use material from the discussion, just interact, brainstorm. You *cannot look at someone's code and then type it. You cannot share the programs*, write code on a paper and share it with someone, or in any form whatsoever share your programs.

Collaboration in teams is allowed only if I have explicitly described in the project/homework assignment. You may collaborate based on the principles of pair programming (see below) and only if I have authorized teams. The Honor Code applies to the team members.

My actions after I suspect a cheating:

1. Contact the student and discuss the issue.
2. Consult with the honors committee and proceed to submit the issue with sufficient evidence that the student has cheated.

Pair Programming

Programming projects can be performed in teams of two members. The goal is to learn pair programming principles and extreme programming techniques that are used in industry. This allows the students to learn from each other and learn to collaborate. The main responsibilities for such collaboration are:

1. All the members of the team need to have project ownership, i.e., participate equally in the design, development and documentation. The instructor will ask in depth questions to all members of the team.
2. **All programming must be done in the pair.** Do not continue programming outside the pair. If you can't finish in one session, meet again. If that's impossible, save a copy of the code you pair-programmed for separate submission. Then work alone to finish the code. Review the part you coded alone with the other team members.
3. You need to follow the rules of pair programming, switching roles from observer to driver every 15 minutes or so.
4. All members receive the same grade.
5. A team leader will make the assignment submission. This is just to maintain one submission per team and in no way the team leader should do less or more work than the rest of the team members.
6. Students need to bring up collaboration issues early (first week of assignment) in order to switch teams.

Accommodations for Adults with Disabilities

The College will make reasonable accommodations for persons with documented disabilities. Students should apply for services at the Center for Disability Services/SNAP located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me one week before accommodation is needed.

Final Notes

➢ I have a Greek accent that may be hard to understand sometimes. Please do not hesitate to ask me to repeat something.
➢ If you need to record the class, you may do this with your phone as long as you do not disturb the class.
➢ Please respect your classmates. Put your phone on silent mode before the lecture starts.