Syllabus - CSC 495 Capstone Seminar

Term: Spring 2017
Schedule: MW from 4:00 pm to 5:50 pm in New Science Center, Room 154
First class: Mon Mar 27, 2017 @ 4:00

Noctrl Description

The Computer Science capstone course allows students to apply the many skills they have acquired during their undergraduate studies by participating as a member of a team to design, develop and present a software solution to a substantive problem. Group process and leadership skills are addressed as well as ethical considerations important to computer science professionals. ACR: Leadership, Ethics and Values.
Source: http://catalog.noctrl.edu/preview_course_nopop.php?catoid=1&coid=235

Instructor

My name is Bill Krieger. I'm a part-time professor in the Computer Science department. My email is wtkrieger@noctrl.edu, and my school website is wtkrieger.faculty.noctrl.edu.

Textbook

The textbook for our course is: *A Gift of Fire: Social, Legal, and Ethical Issues for Computing Technology (4th Edition)* by Sara Baase.

Grading

Your final grade will be comprised of:

- Class participation, 10%
- Ethics homework, 15%
- Project phase 1, 15%
- Project phase 2, 50%
- Final exam, 10%

The standard North Central College grading scale will be used. It's spelled out here: www.northcentralcollege.edu/academics/registrar-and-support-services/registrar/plusminus-grading

The college rules on academic integrity will be strictly enforced. Plagiarism is a severe offense and will not be tolerated. It is considered plagiarism if any part of the work you submit has been written by another person. North Central College link: www.northcentralcollege.edu/academics/dept-div-progs/english/plagiarism-policy

Late work will not be accepted without prior approval. Please see me if you have an issue meeting a course deadline.

Learning Outcomes

LEV Student Learning Outcomes:

- Students should be able to analyze the interdependency among leadership, ethics, and values as these relate to a specific theme, issue, or problem.
- Students should be able to apply critical thinking to a problem of leadership, ethics, or values within a major, minor, or area of special interest.
- Students should be able to reflect upon how a major, minor, or area of interest can contribute to the study of leadership, ethics, and values.

Computer Science Student Learning Outcomes:

- Our graduates should have acquired knowledge of the basic subject matter of the field and should have an understanding of the concepts central to computer science.
- Our graduates should have good programming and design skills and be familiar with at least two software development methodologies.
- Our graduates should have problem solving skills applicable to computer science and related fields.
- Our graduates should have the technical communication skills needed to function effectively as a productive member of a project or development team.

To demonstrate competency in these areas, students will be required to perform the following:

- participate in a major group programming project
- participate in user meetings, weekly updates and lab sessions (some of which may be scheduled outside class time)
- participate in class discussions on the social, legal and ethical issues in computer science and write papers that demonstrate an understanding and provide a deeper analysis of these issues
- work in a group to lead the class discussion on the assigned readings

Course expectations and work

Class attendance and participation is mandatory. A major portion of this grade is the final project where the class will work as a group on the development of a software solution for an end user. The final presentation of this product to the user will take place during the final exam period. You are expected to be able to work in groups and present your work when called upon in class.

In order to pass this course (D or better), you must:

- complete the final project task assigned to you with a grade of 80% or better
- have no more than one unexcused absence (arriving to class more than 45 minutes late will count as an absence)
- respond to all email/phone messages within 24 hours
- write a weekly update on your progress for the final project

NOTE: If any of the above conditions are not met, you will receive an F in this course. This course is required for graduation.