

**CS 401-01 - Contemporary Issues in Computer Science**  
**CS 501-01 - CS Research Seminar**

**Instructor:** Dr. Paul W. Oman (JEB 233; 885-6899; oman@cs.uidaho.edu)

**Meeting Time & Place:** Thursdays at 3:30 in BEL 205

**Seminar Credits:** 1 credit

**Intended Audience:** CS Undergraduate and Graduate Majors

**CS 401 Catalog Description:** Ethical, legal, and intellectual property issues; current research topics; and other issues of importance to the professional computer scientist. Graded P/F. Prereq: Sr standing in CS.

**CS 501 Catalog Description:** Seminar. {While that is the extent of the catalog description, the purpose of the research seminar is to introduce CS students to the ongoing research efforts of CS faculty and students.}

**Seminar Description:** This seminar is intended to satisfy the ABET/CSAB accreditation requirements for coverage of professional issues related to ethics, professional conduct, open research issues, and societal impacts of computer science. We will also cover practical matters like job interviewing, career planning and placement, publishing, internships, cooperative education, etc. The seminar includes lectures, readings, panel discussions, demonstrations and student presentations involving all aspects of computer science.

**Course Grading:** The course is Pass/Fail based on a point system. Throughout the semester you will have the opportunity to earn points. Your semester grade will be based on the cumulative number of points you have earned by the last day of classes. You can stop earning points whenever you have achieved a passing grade. Grades will be assigned as follows:

**CS 401 Students**

**Pass:** 25 or more points including:  
(a) a 5 point (max) essay on ethics  
(b) a 5 point (max) essay on social issues  
(c) 2 speaker reviews @ 2 pts. each (max)  
**Fail:** < 25 points

**CS 501 Students**

**Pass:** 30 or more points including:  
(a) a 5 point essay on ethics  
(b) a 5 point essay on social issues  
(c) 3 speaker reviews @ 2 pts. each (max)  
**Fail:** < 30 points

**In addition to the essays and speaker reviews, other points can be earned as follows:**

Attending this seminar <sup>1</sup>	1 pt.	Attending a UI CAPP seminar	1 pts.
Attending ACM or IEEE Meetings	1 pt.	Participating in a CS Conference	5 pts.
Attending any CS related seminar	1 pt.	Giving a formal in-class presentation <sup>2</sup>	10 pts.
Attending a CS thesis defense	1 pt.	Presenting a formal conference paper	10 pts.

Course work, activities, and points must be recorded in an electronic engineering logbook that will be discussed in class. Essays, speaker reviews, and logbooks will be submitted in hardcopy using templates that will be provided. **Anyone caught falsifying a record or claiming an activity in which they did not participate will be failed from the course.**

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<sup>1</sup> Students should not be enrolled in both the CS seminar and the SFS seminar in the same semester.

<sup>2</sup> The presentation cannot be a required part of any other class in which you are registered.

## CS 401/501 Rules and Guidelines

1. Essays must be 2 typed pages using 12 point Times New Roman font (or similar) with 1 inch margins. The title of the essay should appear at the top of the page along with your name. The title should clearly indicate if the essay is on the ethical use of computing machinery or on the social affects and implications of computers in our society. Essays should be written for your peers (other CS students) so you will only have to define and explain uncommon jargon and acronyms. Essays must have the following organization and sections: Title, Author, Problem Statement, Discussion, Conclusion, and References. References (in IEEE or ACM styles) are needed whenever citing other works, opinions, or non-obvious facts. Essays will be graded on a 0 - 5 point basis. An essay template will be available on the CS 401/501 web page. **At least one essay must be submitted before Thanksgiving break. Only one essay will be accepted after Thanksgiving break. Only hardcopy essays will be accepted.**
2. Speaker Reviews are 1 page typed reactions to in-class speakers. Only CS 401/501 speakers can be reviewed and **all reviews are due within 25 hours of the speaker's presentation (i.e., 5:00 Fridays). Only hardcopy reviews will be accepted.** Reviews must follow the following organization and sections: Your name and date that you wrote the review, the date of the talk, the speaker's name, the title of the talk, a summary of the presentation, a summary of the speaker's conclusions or results, your reaction to and evaluation of the presentation. Speaker Reviews will be graded on a 0 - 2 point basis. Only 1 Speaker Review may be submitted in any given week. A Speaker Review template is available on the CS 401/501 web page.
3. Other course activities must be entered into an electronic engineering log where each entry includes the following: Date of activity, Type of activity, Location of activity, (short) Description of the activity, Your participation in the activity, and What you gained from the activity. Logged activities will earn 0 - 10 points, based on the type of activity and the completeness of your log entry. The logs are chronologic and cumulative - you enter each logged activity sequentially and never erase an entry. A logbook template will be available on the CS 401/501 web page. **Logbooks must be submitted in hardcopy by 5:00 on Monday, December 10.**
4. In general, any CS-related activity will count toward your logbook points, but when in doubt you should check with the instructor prior to participating in the activity. Also, you **cannot** earn logbook points for any activity that is required for another course.

**CS 401/501 Computer Science Seminar  
Fall 2007 Tentative Schedule**

<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Speakers</b>
1	Aug. 23	Welcome & Introduction	Dr. Paul Oman
2	Aug. 30	UofI Information Assurance Research and Education Overview	Dr. Jim Alves-Foss, UofI CS Dept.
3	Sept. 6	Implementing and Testing SCADA Security Policies via SE-Linux Object Type Enforcement Cells	Mr. Ryan Bradetich, Schweitzer Engineering Labs
4	Sept. 13	UofI Career and Professional Planning Services	Ms. Cynthia Mika UofI CAPP Office
5	Sept. 20	Ethics and Social Issues w.r.t. Computers	Dr. Paul Oman
6	Sept. 27	A Hands-on "Tour" of RADICL (in JEB 6)	Ms. Katie Smith & Mr. Kris Watts, UofI CS Dept.
7	Oct. 4	ACM and IEEE Codes of Conduct	Dr. Paul Oman
8	Oct. 11	The SmartSignals Research Project	Dr. Richard Wall & Mr. Dustin DeVoe, UofI ECE Dept.
9	Oct. 18	Using NS-2 to Model Wireless Rail Communications	Mr. Paul Craven, Simpson College
10	Oct. 25	Group Key Agreement Algorithms for Ad hoc Networks	Mr. David Manz University of Idaho
11	Nov. 1	Evidence for Self-Organized Criticality in Internet Attacks	Mr. James Conrad, Hewlett Packard
12	Nov. 8	Interesting Results in Brain Simulations	Mr. Daniel Evans UofI
13	Nov. 15	Security Policy Design and Implementation in High Assurance Computer Systems	Mr. Lu'ay Wahsheh University of Idaho
14	Nov. 22	<b>Thanksgiving Break</b>	
15	Nov. 29	Reconfigurable Computing	Mr. Frank Jones University of Idaho
16	Dec. 6	Semester wrap-up.	Dr. Paul Oman
17	<b>Dec. 10</b>	<b>Monday 5:00: Final deadline for all work.</b>	