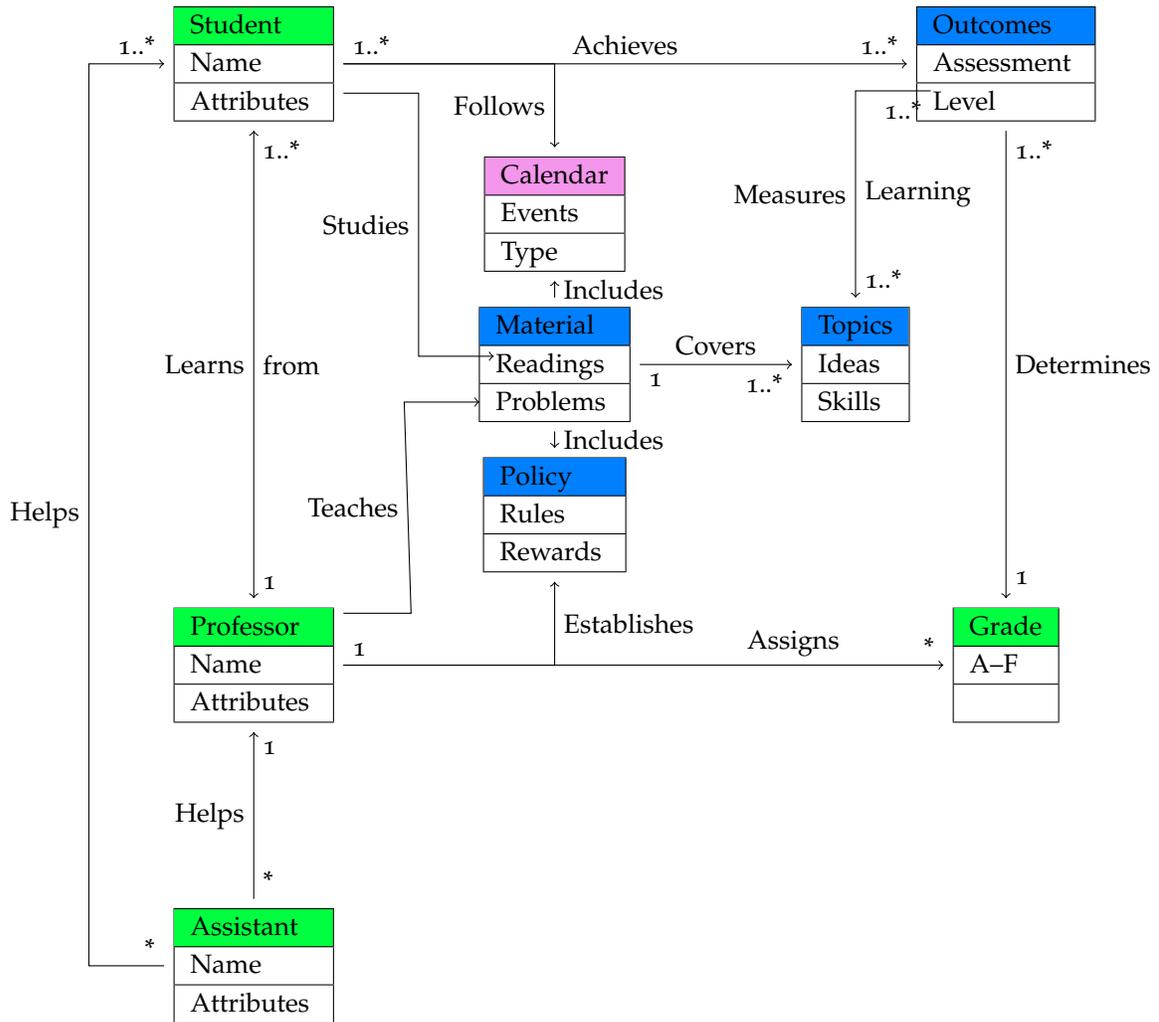


Class Syllabus
 CSE 1101 Computing Disciplines & Careers
 Department of Computer Sciences & Cybersecurity
 College of Engineering
 Florida Tech
 Fall 2015 (August 14, 2015)



Course Description

CSE 1101 Computing Disciplines and Careers (1 credit). Overviews computing-related disciplines and professional careers. Includes an overview of software engineering and computer science. Introduces the ethical, moral and legal implications of crafting software.

Prerequisites

There are no formal prerequisites. You should be able to read, write, and discuss.

Students, Professor & Assistants

Students

Get to know your fellow classmates. Help each other. See the PEOPLE tab in the [course management system](#). Most likely you have or will have other classes with them. Team up to help each other survive. Become acquainted with many students.

Professor



William David Shoaff



Room 324, Harris Center for Science and Engineering



wds@cs.fit.edu



(321) 674-8066



See [my schedule](#)

Office hours: I am available at several times. Perhaps even when [my schedule](#) is marked closed.

Assistants

There are no course assistants at this time.

Calendar

The calendar for the class is included in the [course handout](#). A partial calendar is also posted on the [course management system](#).

Material

The URL for the class is <http://cs.fit.edu/~wds/classes/cdc>. There you will find the following material:

1. [This syllabus](#)
2. [Homework and handouts for the course](#)
3. Grades (See the [course management system](#))

Some material will also be available on the [course management system](#).

The [Wikipedia](#) portals [Computer science](#) and [Software engineering](#) provide additional material.

Homework

Each student must:

1. Subscribe to [cs-forum](#) & the [panther career link](#).
2. Write an essay on assigned readings about computing.
3. Write about the history of computing.
4. Write about recent computing news.
5. Participate in computing activities (3×).
6. Develop a résumé and attend the [career fair](#).
7. Develop an academic plan.
8. Pass a final examination.

These assignments are described in the [course handout](#). Submit your homework using the [course management system](#).

Policies

The following policies have been set for students in the class.

1. Attendance is required at each class period. If for some reason ¹ you cannot attend, inform your teacher.
2. All assignments must be submitted on time. If for some reason you can not meet a due date, inform your professor beforehand. Rather than get in trouble for academic dishonest, tell your instructor you can't make a deadline, and let the chips fall where they may.
3. All written submissions will be scanned by plagiarism detection algorithms. Although not a proof of plagiarism, submission with high similarity scores can infer it. Academic honesty is demanded. If in doubt, discuss academic integrity issues with your professor before submitting an assignment. The department enforces an

¹ Religious holiday, illness, accident, family emergency, ...

[honor code](#). Florida Tech provides [guidelines](#) to help students understand how to avoid accusations of plagiarism. Lipson describes three principles for academic integrity (Lipson, 2004).

- (a) “When you said you did it, you actually did.”
 - (b) “When you use someone else’s work you cite it, When you use their word, you quote it openly and accurately.”
 - (c) “When you present research materials, you present them fairly and truthfully. That’s true whether the research involves data, documents, or the writing of other scholars.”
4. If you have a disability, inform your teacher. Accommodations will be provided.
 5. If you have an academic problem, your teacher can link you to support services.
 6. If you have a personal issue, without revealing private information, your teacher can link you to support services.
 7. No forms of discrimination or harassment will be tolerated.

Where to Get Help

1. Your first-year adviser
2. Your professors
3. Your academic adviser (check your student information on PAWS)
4. The department’s student coordinator (Ms. Edwards)
5. Your teaching assistants
6. Students staffing the [Computer Sciences Help Desk](#) in Olin Engineering 132.
7. Students participating in ACM activities
8. The Academic Support Center
9. Counseling and Psychological Services

Topics

There is no textbook for the course. I’ve prepared a series of [hand-outs](#) to guide our discussions. The topics are computer science and software engineering. In particular,

1. Historical discoveries and inventions in these fields
2. Careers in computing

3. The core and elective knowledge needed for successful careers in computer science & software engineering
4. The need for professional practice
5. The impact these fields have had, are having, and may have

Outcomes

Students will develop the ability to:

1. Give cogent descriptions of “computer science.” and “software engineering,” and some of their subdisciplines. (5: Awareness of professional issues and responsibilities)
 2. Understand the importance of professional practice in computing. (5: Awareness of professional issues and responsibilities)
 3. Write about computing topics. (7: Communicate effectively)
 4. Recognize ethical, social, legal, and security issues in computing. (6: Analyze computing’s impact)
 5. Understand requirements for a successful career in computing. (9: Continually learn)
 6. List people, machines, languages, and systems that have been important in the development of computer science and software engineering. (10: Knowledge of history and present issues)
- 5: An understanding of professional, ethical, legal, security and social issues and responsibilities
 - 6: The broad education necessary to analyze the impact of computing and software engineering solutions in a local, global, economic, environmental, and societal context
 - 7: An ability to communicate effectively with a range of audiences
 - 9: A recognition of the need for, and an ability to engage in, continuing professional development
 - 10: A knowledge of historical and contemporary issues

Grades

There are 10 assignments: Each is worth 10 points. Your score S will be a number between 0 and 100 computed by the formula

$$S = \sum_{k=0}^9 a_k$$

where a_k , $k = 0, 1, 2, \dots, 9$ are your scores on each assignment. Extra credit will not be given.

Final letter grades will be assigned according to the following scale.

$$(90 \leq S \leq 100) \Rightarrow A, \quad (80 \leq S \leq 89) \Rightarrow B, \quad (70 \leq S \leq 79) \Rightarrow C, \quad (60 \leq S \leq 69) \Rightarrow D, \quad (0 \leq S \leq 59) \Rightarrow F$$

The last day to withdraw from the class with a final grade of W is Friday, October 23



Checking Grades

Check you grades on the [course management system](#). When you find an error in your recorded grades [contact your professor](#). Be able to document the error.

References

Lipson, C. (2004). Doing Honest Work in College: How to Prepare Citations, Avoid Plagiarism, and Achieve Real Academic Success. University of Chicago Press, Chicago. [[page 4](#)]