

**CMPSC 500 and 501
Internship Seminar
Fall 2014**

Syllabus

Course Instructor

Dr. Gregory M. Kapfhammer

Office Location: Alden Hall 108

Office Phone: +1 814-332-2880

Email: gkapfham@allegheny.edu

Twitter: @GregKapfhammer

Web Site: <http://www.cs.allegheny.edu/sites/gkapfham/>

Instructor's Office Hours

- Monday: 2:30 pm – 4:30 pm (15 minute time slots)
- Tuesday: 2:30 pm – 4:30 pm (15 minute time slots)
- Wednesday: 10:00 am – 12:00 noon (15 minute time slots) *and*
4:30 pm - 6:00 pm (15 minute time slots)
- Thursday: 10:30 am - 11:00 am (10 minute time slots)
- Friday: 11:00 am – 12:00 noon (10 minute time slots) *and*
3:30 pm – 4:30 pm (10 minute time slots)

To schedule a meeting with me during my office hours, please visit my Web site and click the “Schedule” link in the top right-hand corner. Now, you can browse my office hours or schedule an appointment by clicking the correct link and then reserving an open time slot.

Course Meeting Schedule

Neither CMPSC 500 nor 501 have a pre-defined meeting time. Instead, students are required to meet with the course instructor during office hours for a total of 60 minutes. These meetings must be scheduled through the course instructor's reservation system and documented on a meeting record that you submit on the last day of classes (see the “Grading Policy” section for more details).

Course Catalogue Description

A corequisite seminar for all students participating in the Internship Program. Internship students enroll twice, once prior to and once following the Internship. Computer Science 500 focuses on expectations and planning, leading to the Internship Proposal required for all students planning an internship. Computer Science 501 provides the opportunity for students who have completed the Internship to prepare written and oral reports on the Internship experience. The student, in consultation with the faculty of the Department of Computer Science, is responsible for arranging for an acceptable internship. The courses meet together weekly for one-half a semester. Credit: One semester hour for each course. Prerequisites: Completion of at least two core courses.

Course Objectives

The students in CMPSC 500 will develop a list of internship and career resources, explore their internship and career interests, and write a proposal for the internship that they will undertake. The course aims to help students learn more about the field of computing and the positions that are available to computer scientists who graduate from Allegheny College. In summary, the course will provide a framework that enables a student to secure an interesting and meaningful internship.

The students in CMPSC 501 will create a list of career resources, explore their career interests, write a final report reflecting on their internship, and give a public presentation about their internship. This course gives students who recently completed an internship a forum for sharing their experiences with both computer science faculty and students and the college community as a whole.

Performance Objectives

At the completion of either CMPSC 500 or CMPSC 501, a student should be familiar with resources related to various facets of internships and careers. Students should have skills that enable them to effectively investigate internships and careers. Also, the student should have a better understanding of the computer science sub-disciplines that they may want to pursue after graduating from Allegheny College. Finally, students should also have improved their writing and speaking skills.

Required Textbooks

There are no required textbooks for this class. However, students who want to improve their general and technical writing skills may consult the following books.

BUGS in Writing: A Guide to Debugging Your Prose. Lyn Dupré. Second Edition, ISBN-10: 020137921X, ISBN-13: 978-0201379211, 704 pages, 1998.

Writing for Computer Science. Justin Zobel. Second Edition, ISBN-10: 1852338024, ISBN-13: 978-1852338022, 270 pages, 2004.

Class Policies

Grading

The grade that a student receives in this class will be based on the following categories. All percentages are approximate and, if the need to do so presents itself, it is possible for the assigned percentages to change during the academic semester.

Grade percentages for CMPSC 500:

Class Participation and Instructor Meetings	20%
Career Interest Statement	20%
Description of Career Resources	20%
Internship Proposal	30%
Secured Internship	10%

Grade percentages for CMPSC 501:

Class Participation and Instructor Meetings	20%
Internship Retrospective	25%
Description of Career Resources	25%
Internship Presentation	30%

The aforementioned grading categories have the following definitions:

- *Class Participation and Instructor Meetings:* All students are required to attend the public presentations given as part of the internship seminar. Furthermore, all students must meet with the course instructor during office hours for a total of sixty minutes during the Fall 2014 semester. These meetings must be scheduled through the instructor's reservation system and documented on a meeting record that you submit on the last day of classes. Attendance at the seminar's presentations corresponds to 5% of the student's grade in this category and the instructor meetings comprise the other 15%. If $t = 60$, then a student who attends m minutes of the instructor meetings will receive a grade of $\frac{\max(t,60)}{t} \times 100$ for the 15% of this grade.
- *Career Interest Statement:* This document must describe the types of careers in which a student has interest. This statement should go beyond furnishing a job title and description and also give information concerning issues such as preferred geographical location, technologies that the student wants to use, and types of software that the student would like to develop.
- *Description of Career Resources:* Students must prepare a document that describes the career and internship resources that they found to be the most valuable during their participation in the internship seminar. For instance, students might create a listing of different Web sites and books that they found useful. Beyond simply listing the resources, this document should highlight their strengths, weaknesses, and interconnections.
- *Internship Proposal:* Students must write a short proposal, in conjunction with the staff members of the company that will host their internship, to describe the work that they will conduct during the internship. This document should furnish as much detail as is possible. For instance, the proposal should state who will be the student's mentor, how the student will integrate into existing team(s) within the company, and the student's assigned project(s).
- *Secured Internship:* Each student should work hard to secure an internship by the end of the seminar. If students anticipate that they will not be able to secure an internship, they should discuss this matter with the course instructor well in advance of the end of the semester. In certain select situations, the course instructor may be able to make alternative arrangements for a student who has not secured an internship near the end of the academic semester.
- *Internship Presentation:* After completing their internship, students should give a public presentation hosted by the Department of Computer Science. In consultation with the course instructor and the president of Allegheny College's student chapter of the ACM, students must schedule a seminar in which they will present. Well in advance of their presentation, students must deliver to the course instructor a copy of their presentation slides. Students should speak for at least ten minutes and be prepared to answer questions for several minutes.

- *Internship Retrospective*: Students who have completed their internship should write a short document describing the work that they completed. This document must also reflect on whether the student would suggest that other Allegheny College students should also intern at the company that offered their internship; if the company is suitable then this document should furnish contact information for people at the company. In contrast to the internship presentation, this document affords students an opportunity to privately reflect on their experiences in a way that might not be appropriate in a public forum.

Email

Using your Allegheny College email address, I will sometimes send out class announcements with assignment clarifications or presentations announcements. It is your responsibility to check your email at least once a day and to ensure that you can reliably send and receive emails. This class policy is based on the following statement in *The Compass*, the College's student handbook.

“The use of email is a primary method of communication on campus. . . . All students are provided with a campus email account and address while enrolled at Allegheny and are expected to check the account on a regular basis.”

Disability Services

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. Students with disabilities who believe they may need accommodations in this class are encouraged to contact Disability Services at 332-2898. Disability Services is part of the Learning Commons and is located in Pelletier Library. Please do this as soon as possible to ensure that approved accommodations are implemented in a timely fashion.

Honor Code

The Academic Honor Program that governs the entire academic program at Allegheny College is described in the Allegheny Course Catalogue. The Honor Program applies to all work that is submitted for academic credit or to meet non-credit requirements for graduation at Allegheny College. This includes all work assigned for this class (e.g., career interest statement and description of career resources). All students who have enrolled in the College will work under the Honor Program. Each student who has matriculated at the College has acknowledged the following pledge:

I hereby recognize and pledge to fulfill my responsibilities, as defined in the Honor Code, and to maintain the integrity of both myself and the College community as a whole.

Welcome to an Adventure in Computer Science Internships

A recent article in the *Seattle Times* opined that “computer science is where the future jobs are”. In this seminar, you will have the opportunity to search for and share about internship opportunities. Since computer software and hardware are pervasive and influential aspects of our society, an internship in computer science effectively prepares you for a job after graduation. As we start this class, I invite you to pursue with enthusiasm and vigor this adventure in internships.