

**First-Year/Sophomore 102
Software Everywhere
Spring 2017**

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, Wednesday, and Friday: 11:00 am–12:00 noon (15 minute time slots)
- Tuesday and Thursday: 10:00 am–11:00 am (15 minute time slots)
- Tuesday: 2:30 pm–3:30 pm (15 minute time slots)
- Friday: 4:00 pm–5:00 pm (15 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. Students are also encouraged to post appropriate questions to a channel in Slack, which is available at <https://FS102Spring2017.slack.com/>, and monitored by the instructor and the teaching assistant(s).

Course Meeting Schedule

Discussion, Presentation, and Group Work Session: Monday and Wednesday 3:00 pm–3:50 pm

Practical Session: Friday 3:00 pm–3:50 pm

Final Project Due Date: Tuesday, May 9, 2017 at 5:00 pm

Course Catalogue Description

An examination of the pervasive nature of computer software and the impact that it has on individuals and society. Participating in team-based and hands-on explorations of software systems, students examine the technical and ethical challenges facing a culture that relies heavily on computer software. Using state-of-the-art software technology to investigate topics such as social networking, online search, and digital music, students further develop their oral and written communication skills.

Course Objectives

Beyond the purpose of integrating new students into the intellectual life of Allegheny College, the goal of this course is to ensure that students are able to effectively write and speak. Using the

theme of “Software Everywhere” as an ends towards achieving these goals, students will learn to write and speak in a variety of styles and on a multitude of subjects. Students will also find out about the resources available to and rules and regulations upheld by students at Allegheny College.

An additional objective of the course is to teach students how to use software to write and present about how software systems influence individuals and society. Thus, students will learn how to use the Git version control system to manage their writing. A further goal for the course is to allow you to create a portfolio of your writing assignments and presentations for display on a mobile-ready web site hosted by GitHub. Finally, students will learn how to use simple programming languages like Markdown and HTML to create their writing assignments and presentations.

Performance Objectives

At the end of this course, students will better know how to manage their time in a fashion that will ensure their academic success at Allegheny College. Members of the class should also be able to confidently research, write, and revise persuasive articles and give compelling presentations of no more than five minutes. The primary focus for the writing assignments will be the production of text that is concise, accessible, and error-free. Unless specified otherwise, each writing assignment will be accompanied by a “TL;DR” or a “Too Long; Didn’t Read” that summarizes the key points of each article. The primary focus of the presentations will be the delivery of short and engaging presentations that use simple and appealing slides to persuasively convey a point. In addition to improving their writing and speaking skills, students should know how to both participate in and lead class discussions, respectfully debate with their peers, actively participate in group work, and interact with the course instructor through both digital mediums and face-to-face interactions.

Required Textbooks

A Writer’s Reference. Nancy Sommers. Seventh Edition, ISBN-10: 0312601433, ISBN-13: 978-0312601430, 245 pages, 2010. (From your First-Year/Sophomore 101 course).

They Say, I Say: The Moves That Matter in Academic Writing. Gerald Graff and Cathy Birkenstein. Second Edition, ISBN-10: 039393361X, ISBN-13: 978-0393933611, 245 pages, 2010.

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

Students wanting to hone their technical writing skills are encouraged to consult the following book.

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

Along with reading the required books, you will be asked to study many additional articles from a wide variety of conference proceedings, journals, web sites, and the popular press.

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 a need to do so presents itself, it is possible for the course instructor to change the assigned percentages during the academic semester.

Class Participation and Instructor Meetings	10%
Practical Assignments	20%
Writing Assignments	30%
Presentation Assignments	20%
Final Project Portfolio	20%

These grading categories have the following definitions:

- *Class Participation and Instructor Meetings*: All students are required to actively participate during all of the class sessions. Your participation will take forms such as answering questions about the required reading assignments, asking constructive questions of group members, giving presentations, and leading a discussion session. Furthermore, all students are required to meet with the course instructor during office hours for at least fifteen minutes during the Spring 2017 semester. These meetings must be scheduled through the instructor’s reservation system and documented on a meeting record that you submit along with your final project portfolio. You also must regularly participate in the discussions on the Slack channels for this course. A student may request feedback on and will receive a final grade for this category.
- *Practical Assignments*: Students will use state-of-the-art software to write and present about how software influences individuals and society. To accomplish this task, you will complete practical assignments so that you can learn more about how to use software such as a text editor and a version control system. In addition to completing the tasks in these assignments, students will chronicle their experiences on their web site. These assignments will be graded on a “checkmark basis” wherein the instructor verifies that you completed the work.
- *Writing Assignments*: Students will write a wide variety of articles that they will feature on their mobile-ready web site. In addition to posting all assignments on your web site, students are responsible for submitting a printed and signed version of it at the start of the class session on which the assignment is due. Prior to the submission deadline for each assignment, there must be evidence in the student’s GitHub repository — in the form of GitHub issues and commits — that documents the discussion and revision of each article. Along with a grade for each assignment, the instructor will return a marked version of the article and, when appropriate, raise additional issues in the student’s GitHub repository.
- *Presentation Assignments*: Students will give several presentations whose slides they will feature on their mobile-ready web site. In addition to posting all presentations on your web site, students are responsible for submitting an outline of it at the start of the class session on which the assignment is due. Prior to the date on which you will give your presentation, there must be evidence in your GitHub repository — in the form of GitHub issues and commits — that documents the discussion and revision of each presentation. Along with a grade for each assignment, the instructor will return a marked version of the presentation outline and, when appropriate, raise additional issues in the student’s GitHub repository.
- *Final Project Portfolio*: Leveraging the feedback that they received for each of their writing and presentation assignments, students will prepare a final project portfolio, available as a mobile-ready web site hosted by GitHub, that showcases the revised version of each assignment. In addition, you will prepare a final article that draws on all of your past articles and presentations while still persuasively articulating your view of a course-related issue.

Assignment Submission

All assignments will have a stated due date. Electronic versions of the practical, writing, presentation, and final project assignments must be submitted to the version control repository that the student creates at the start of the semester. Normally, the printed version of the assignment is to be turned in at the beginning of the class on that due date; the printed materials must be dated and signed with the Honor Code pledge of the student(s) completing the work. Late assignments will be accepted for up to one week past the assigned due date with a 15% penalty. All of the late assignments must be turned in at the beginning of the session that is scheduled one week after the due date. Unless special arrangements are made with the instructor, no work will be accepted after the late deadline. For any assignment completed in a group, students must also turn in a one-paragraph document that describes each group member's contribution to the assignment.

Course Attendance

It is mandatory for all students to attend class. If you will not be able to attend a class session, then please see the instructor at least one week in advance to describe your situation. Students who miss more than five unexcused classes will have their final grade in the course reduced by one letter grade. Students who miss more than ten unexcused classes will automatically fail the course.

Laboratory Facilities

Throughout the semester, we will investigate many different software tools that writers and speakers may use to create an article, prepare a presentation, or publish content on a mobile-ready web site. The course instructor and the department's systems administrator have invested a considerable amount of time to ensure that our laboratories support the completion of all of the assignments and projects. To this end, students are invited to complete all of the assignments and the final project while using the laboratory facilities. The instructor and the systems administrator only be able to devote minimal assistance to students who want to configure their personal computers.

Class Preparation

In order to minimize confusion and maximize learning, students must invest time to prepare for the class discussions, presentations, and practical sessions. During the class periods, the course instructor will often pose challenging questions that could require group discussion, the creation of a program or data set, a vote on a thought-provoking issue, or a group presentation. Only students who have prepared for class by reading the assigned material and reviewing the current practical, writing, and presentation assignments will be able to effectively participate in these activities. Finally, whenever possible, students who are giving a presentation should come to class early to ensure that the laboratory computers will correctly display their presentation slides.

Most importantly, only prepared students will be able to acquire the knowledge and skills that are needed to be successful in this course, subsequent courses, and their chosen field of study. In order to help students remain organized and effectively prepare for classes, the course instructor will maintain an online class schedule with reading assignments and presentation slides. During the class sessions students will also be required to download, use, and modify programs and images that are made available through means such as the course web site and a version control repository.

Seeking Assistance

Students who are struggling to understand the knowledge and skills developed in a class or practical session are encouraged to seek assistance from the course instructor, the teaching assistant(s), or the departmental tutors. Throughout the semester, students should, within the bounds of the Honor Code, ask and answer questions on the Slack site for our course; please request assistance from the instructor, teaching assistant(s), and tutors first through Slack before sending an email. Students who need the course instructor's assistance must schedule a meeting through his web site and come to the meeting with all of the details needed to discuss their question.

Using Email

Although we will primarily use Slack for class communication, I will sometimes use email to send announcements about important matters such as changes in the schedule. 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 statement about the use of email that appears in *The Compass*, the College's student handbook; please see the instructor if you do not have this handbook.

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., examinations, writing assignments, and presentations). 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 Software, Writing, and Speaking

In reference to software, Frederick P. Brooks, Jr. wrote in *The Mythical Man Month*, "The magic of myth and legend has come true in our time." Since software is so pervasive and influential in our society and writing and speaking are so important, I invite you to pursue with enthusiasm and vigor this adventure in software, writing, speaking, and the Allegheny College community.