IST 597A: Software Security and Analysis
(Spring 2015)

Administrative Information

Class: Wed 9:05-12:05, Room 209 IST

Instructor: Dinghao Wu
E-mail: dwu@ist.psu.edu
(Make sure you include course number and title in the email title)
Home page: http://faculty.ist.psu.edu/wu/
Office: 313E IST, Phone: 814-867-3612
Office hours: Tuesday 1-2PM or by appointment

Textbooks:
Materials will be drawn from various sources including books and research papers.

Course Overview

This course covers the foundations of software and the topics on software security. The students will learn various software analysis methods and apply them to software security problems. The goal of this course is for students to develop a solid understanding of the foundations of software, learn a set of research methods, and apply them to software security problems. Students will develop the skills necessary to formulate and address the security problems of software systems.

Grading

- **Homework (30%)**: There are 3 homework assignments.
- **Seminar: Readings, reviews, and presentation (30%)**: 10 paper reviews. For each paper, describe the problem, solution, results, and methodology.
- **Class participation and discussion (10%)**
- **Project (30%)**: project presentation (10%) and final report (20%).

Schedule (tentative)

(see separate schedule document)
Writing Tutoring

Need help with writing? You can have an online or in-person meeting with a writing tutor.

Grad students: Graduate Writing Center

Undergrad students: http://student.worldcampus.psu.edu/academic-support-resources/tutoring/writing-tutoring

Policies

Academic Integrity

According to the Penn State Principles and University Code of Conduct: Academic integrity is a basic guiding principle for all academic activity at Penn State University, allowing the pursuit of scholarly activity in an open, honest, and responsible manner. In accordance with the University’s Code of Conduct, you must not engage in or tolerate academic dishonesty. This includes, but is not limited to cheating, plagiarism, fabrication of information or citations, facilitating acts of academic dishonesty by others, unauthorized possession of examinations, submitting work of another person, or work previously used without informing the instructor, or tampering with the academic work of other students. Any violation of academic integrity will be investigated, and where warranted, punitive action will be taken. For every incident when a penalty of any kind is assessed, a report must be filed.

Plagiarism (Cheating): Talking over your ideas and getting comments on your writing from friends are NOT examples of plagiarism. Taking someone else’s words (published or not) and calling them your own IS plagiarism. Plagiarism has dire consequences, including flunking the paper in question, flunking the course, and university disciplinary action, depending on the circumstances of the offense. The simplest way to avoid plagiarism is to document the sources of your information carefully.

Accommodating Disabilities

Americans with Disabilities Act

The School of Information Sciences and Technology welcomes persons with disabilities to all of its classes, programs, and events. If you need accommodations, or have questions about access to buildings where IST activities are held, please contact us in advance of your participation or visit. If you need assistance during a class, program, or event, please contact the member of our staff or faculty in charge. Access to IST courses should be arranged by contacting the Office of Human Resources, 332 IST Building: (814) 865-8949.

Students with Disabilities
It is Penn State’s policy to not discriminate against qualified students with documented disabilities in its educational programs. (You may refer to the Nondiscrimination Policy in the Student Guide to University Policies and Rules.) If you have a disability-related need for reasonable academic adjustments in this course, contact the Office for Disability Services (ODS) at 814-863-1807 (V/TTY). For further information regarding ODS, please visit the Office for Disability Services Web site at http://equity.psu.edu/ods/.

In order to receive consideration for course accommodations, you must contact ODS and provide documentation (see documentation guidelines at http://equity.psu.edu/ods/guidelines/documentation-guidelines). If the documentation supports the need for academic adjustments, ODS will provide a letter identifying appropriate academic adjustments. Please share this letter and discuss the adjustments with your instructor as early in the course as possible. You must contact ODS and request academic adjustment letters at the beginning of each semester.

**Statement on Nondiscrimination & Harassment (Policy AD42)**

The Pennsylvania State University is committed to the policy that all persons shall have equal access to programs, facilities, admission and employment without regard to personal characteristics not related to ability, performance, or qualifications as determined by University policy or by state or federal authorities. It is the policy of the University to maintain an academic and work environment free of discrimination, including harassment. The Pennsylvania State University prohibits discrimination and harassment against any person because of age, ancestry, color, disability or handicap, national origin, race, religious creed, sex, sexual orientation, gender identity or veteran status. Discrimination or harassment against faculty, staff or students will not be tolerated at The Pennsylvania State University. You may direct inquiries to the Office of Multicultural Affairs, 332 Information Sciences and Technology Building, University Park, PA 16802; Tel 814-865-0077 or to the Office of Affirmative Action, 328 Boucke Building, University Park, PA 16802-5901; Tel 814-865-4700/V, 814-863-1150/TTY.

For reference to the full policy (Policy AD42: Statement on Nondiscrimination and Harassment):
http://guru.psu.edu/policies/AD42.html