

# CMPSC 443: Introduction to Computer and Network Security

Prof. Gary (Gang) Tan

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**Course summary.** This course is an introduction to theory and practice of computer security, covering a broad range of topics including encryption, security protocols, software security, firewalls, access control, and others. The purpose of the course is to help students understand the common computer-security problems and basic counter-measures.

**Prerequisites.** CMPSC 473 (Operating Systems Design & Construction) and CMPEN 362 (Communication Networks).

**Attendance.** Attendance is mandatory. Students who have legitimate reasons for absence have to inform the professor **before the fact**. Students who have to miss class for an extended period of time should contact the appropriate class dean for a permission.

Please refer to PSU's [attendance policy](#) for clarification.

**Instructor.** Gang Tan, 346C IST building, gtan@cse.psu.edu. Office hours: Wednesdays 1:30–3pm, or by appointments.

**Teaching Assistant.** Zhen Xie, zhenxie@cse.psu.edu. Office hours: Thursdays 2-4pm or by appointments in room IST 338A.

**Course Website and Discussion Group.** More course information is available at <http://www.cse.psu.edu/~gxt29/teaching/cs443s16/>.

**Textbook.** The textbook is *Information Security Principles and Practice*, 2nd edition. by Mark Stamp. An electronic version of the textbook is available through the PSU library.

**Grading.** Homework 25%; Labs: 25%; Midterm 20%; Final exam 25%; Class participation 5%.

**Assignments.** Will be announced on PSU's new course management system Canvas: <http://canvas.psu.edu/>. Homework and lab submissions should be through Canvas.

**Late Homework and Missed Exams.** Late Policy: Starting right after the required submission date of any homework or project or lab report, 10% of the grade will be deducted per day up to five days. NO points will be given to submissions more than five days late.

Make-up for missed exams will only be granted on a case-by-case basis.

A documented condition which could affect this policy must be immediately brought to the attention of the instructor.

**Collaboration Policy.** You are expected to work alone (unless explicitly allowed in an assignment). Submissions of identical or virtually-identical homeworks or code by two students, when it is clear that this is not a coincidence, will be treated as a violation of the university's academic integrity policy. The same holds for materials found on the internet: you should not use them unless explicitly allowed.

**Feedback.** The success of this course needs a mutual communication between course staff and students. We welcome your feedback related to the course, such as course materials we cover, teaching techniques, and difficulties in the assignments and exams. We need your inputs.

**Technology Use.** The purpose of this course is to help students understand basic security problems and counter measures. The knowledge should not in any way be used by students to exploit vulnerabilities inside PSU or outside.

**Academic Integrity.** The University defines academic integrity as the pursuit of scholarly activity in an open, honest and responsible manner. All students should act with personal integrity, respect other students' dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts (refer to Senate Policy 49-20). Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having 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. Students who are found to be dishonest will receive academic sanctions and will be reported to the University's Office of Student Conduct for possible further disciplinary sanctions (refer to Senate Policy G-9).

**Disability Access Statement.** Penn State welcomes students with disabilities into the University's educational programs. Every Penn State campus has an office for students with disabilities. The Office for Disability Services (ODS) Web site provides contact information for every Penn State campus: <http://equity.psu.edu/ods/disability-coordinator>. For further information, please visit the Office for Disability Services Web site: <http://equity.psu.edu/ods>.

In order to receive consideration for reasonable accommodations, you must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <http://equity.psu.edu/ods/guidelines>. If the documentation supports your request for reasonable accommodations, your campus disability services office will provide you with an accommodation letter. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. You must follow this process for every semester that you request accommodations.