



KIIS Austria Summer 2021

CS 475 Topics: Computer Ethics and Security

Instructor: Dr. Jan Pearce

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Instructor's office hours: on site and by appointment

Syllabus subject to change

1. Course Description: Computer ethics and security have swiftly become expected core components of education in computing fields. With a focus on cross-border issues, students in this course explore ethical and security issues faced by and brought about by computing professionals, including, privacy, intellectual property, reliability, and liability. The Association for Computing Machinery (ACM), the world's largest scientific and educational computing society, has recently updated the ACM Code of Ethics and the ACM's most recent curricular guidelines for undergraduate degree programs in computer science specifically state that computer science graduates should "recognize the social, legal, ethical, and cultural issues inherent in the discipline of computing" including the important ethical issues to consider in computer security, such as "ethical issues associated with fixing or not fixing vulnerabilities and disclosing or not disclosing vulnerabilities." Students also discuss the ethical and security impacts of widespread use of big data and artificial intelligence.

2. Overall KIIS Program Student Learning Outcomes:

KIIS Study Abroad Mission Statement:

KIIS provides high-quality education abroad programs for students from all diverse backgrounds that promote deep international learning, are integrated into the curriculum, and encourage critical and creative thinking. Our goal is to help students understand the wider world and develop personal and professional skills for lifelong enrichment. We strive to go beyond generalizations and cultural stereotypes to help foster a nuanced appreciation of the world in which we live.

Students participating on KIIS study abroad programs aim to:

- 1) Understand contemporary issues of their host country/countries (i.e. KIIS program location).
- 2) Develop skills to interact comfortably in a global setting.
- 3) Understand other cultures.

Prior to your KIIS study abroad program, and again at the conclusion of your program, KIIS will ask each student to a) answer a few multiple-choice questions, and b) write a short reflective essay (two paragraphs in length) related to the elements detailed above. There is no right or wrong answer, and your responses will not affect your grade in any way. The purpose of the exercise is to help KIIS measure the effectiveness of its study abroad programs.

3. Course Objectives and Specific Learning Outcomes:

Upon successful completion of this course, students will be able to:	How students will practice each outcome:	How student achievement of each outcome will be assessed:
1. Identify and interpret the ethical codes of professional conduct relating to the disciplines of computer science and software engineering.	Readings/Class Discussion	Worksheets and short essays
2. Describe the interplay of high profile cyber-hacking and data breaches cases with multinational and international responses to cybersecurity and privacy.	Readings/Class Discussion	Worksheets and short essays
3. Identify and apply ethical frameworks and methodologies to cybersecurity cases.	Readings/Class discussion	Worksheets and short essays
4. Articulate and defend positions on the ethics of responses and non-responses to cyber issues in a way that is both reasoned and informed by the complexities of the situations.	Readings/Class discussion	Short essays/Independent research & Presentation
5. Analyze the local and global impact of cybersecurity issues on individuals, organizations, and society.	Readings/Class discussion	Short essays/Independent research & Presentation

4. Major Topics covered in the Course: Ethics, Professional codes of conduct, Whistle-blowing, Cybersecurity, Personal data and privacy, and Governmental and corporate responses to cyber security breaches.

5. Fulfillment of General Education Requirement: This course is expected to meet the Practical Reasoning Requirement (PR) at Berea College.

6. Required Readings and Materials: You should complete the assigned primary text reading described below before you arrive in Austria:

- **Required primary text:** Wolff, Josephine, and Braman, Sandra. 2018. You'll see this message when it is too late: The Legal and Economic Aftermath of Cybersecurity Breaches. MIT Press. ISBN: 9780262349536. https://www.amazon.com/Youll-this-message-when-late-ebook/dp/B07JPDH376/ref=tmm_kin_title_0
- **Online Readings:** With the exception of the primary text, which you need to purchase and read in advance, you will be able to access all other course readings, including this syllabus, online without cost.

- **Accounts:** Gmail and WhatsApp accounts you will be used in the course. If you do not already have these, please create them--they are free.
- **Hardware:** A laptop computer running Windows, Mac OS, or Linux. Phones or tablets are unlikely to suffice for some of the in-class exercises due to operating system mismatch.

7. Graded Assignments: Grades for the course will be calculated based on your work on the following items:

- **Participation (20%)** – You are expected to attend every class and to participate in out-of-class activities as directed by the instructor and the program director. KIIS requires that any unexcused absence result in a grade reduction. Multiple unexcused absences may result in expulsion from the program. You will be graded here not just on your attendance, but your attitude as well as your active engagement with our guest speakers and excursions as well as the class discussions, activities, and readings.
- **Course Activities/Homework (40%)** – For each class period and each excursion/speaker, you will complete a course activity or a short essay. I will assign a specific activity or essay topic for each session, but often these activities will ask you to relate the course readings or excursion to Austria. Typically, you will submit these by 8AM each day.
 - For the first class: Scan the entire textbook, and then select a section for careful reading in which you identify a cross-border issue. Read this section carefully, and come prepared to discuss the section that you read as well as how you believe it has/ could affect Argentines.
- **Independent Research/Final Presentation (40%)** – You will research a particular contemporary cybersecurity issue or incident that has or may impact Argentines, complete a five-page structured report (20%), and present this report to the class during our last few meetings. You will be expected to reference academic and non-academic articles, books, and websites as your source material, as well as take advantage of the on-site location to interview a few locals regarding their perspective on your topic.

All course assignments must be completed to receive a passing grade. There will be no extra credit offered. Your course will use the following scale:

A = 90-100% B = 80-89% C = 70-79% D = 60-69% F ≤ 59%

8. Attendance Policy:

KIIS program participants are expected to be punctual to and in attendance at all classes, presentations, meetings and required excursions, and to remain with the program for the full academic period. Unexcused absences from classes and/or mandatory meetings will result in a lowering of the student's final grade, as will excessive tardiness. Multiple unexcused absences could result in expulsion from the program. Any absence from an academic class session must be excused for medical reasons.

9. Disability Accommodation:

KIIS will make every reasonable effort to provide accommodations for program participants with special needs or disabilities, but we cannot guarantee that we will be able to do so. Be aware that many foreign countries do not have comprehensive legislation comparable to the Americans with Disabilities Act (ADA). As a result, businesses and other establishments operating in foreign countries may not be able to provide accommodations.

If you have a disability accommodation need, we recommend you contact your KIIS Campus Representative, <https://www.kiis.org/about-kiis/contact-us/campus-representatives/> early in your program selection process so that s/he has time to discuss any specific needs, including which KIIS programs may be best suited. You also are welcome to contact KIIS Assistant Director, Maria Canning, maria.canning@wku.edu, to discuss your disability accommodation needs (e.g. housing, transportation, excursions, class schedule, etc.).

Immediately after acceptance, notify KIIS Assistant Director, Maria Canning, or KIIS Admissions and Enrollment Specialist, Haley McTaggart, haley.mctaggart@wku.edu, if you have a special need or disability that might require any form of accommodation abroad. Failure to notify KIIS may prevent you from participating on your KIIS program.

If you require any accommodations abroad, you must provide KIIS Assistant Director, Maria Canning, or KIIS Admissions and Enrollment Specialist, Haley McTaggart, an accommodation letter from your home campus' disability accommodation office that lists the accommodations you are eligible to receive. Please do not request accommodations directly from your KIIS Program Director or other KIIS Faculty; the KIIS Office will notify your KIIS Program Director and/or Faculty after we have received your above accommodation letter.

In some cases, you may need to make arrangements for a caregiver to join you on your KIIS program, should your physician, campus disability accommodation office, or KIIS make such a recommendation or require it.

10. Title IX / Discrimination & Harassment:

Recent attention to gender discrimination and sexual harassment at colleges and universities reminds us of the importance of adhering to standards of ethical and professional behavior. KIIS Study Abroad is committed to supporting and encouraging safe and equitable educational environments for our students, faculty, and program directors. Students, faculty, and program directors are required to be civil and treat each other with dignity and respect. As such, harassment and/or discrimination of any kind will not be permitted or tolerated.

Sexual misconduct (sexual harassment, sexual assault, and sexual/dating/domestic violence) and sex discrimination are violations of KIIS policies. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to a) KIIS Assistant Director Maria Canning (+1-859-200-1000) or KIIS Executive Director, John Dizgun (+1-270-227-2288), b) WKU's Title IX Coordinator, Andrea Anderson (270-745-5398 / andrea.anderson@wku.edu) or WKU's Title IX Investigators, Michael Crowe (270-745-5429 / michael.crowe@wku.edu) or Joshua Hayes (270-745-5121 / joshua.hayes@wku.edu). Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a KIIS program director and/or faculty member, KIIS program directors and faculty are considered "Responsible

Employees" of Western Kentucky University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator.

If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center, <https://www.wku.edu/heretohelp/> at 270-745-3159.

For more information on KIIS Title IX, see <https://www.kiis.org/students/health-safety/title-ix-clery/>; additional Title IX resources can be found here <https://www.wku.edu/eoo/brochure2019update.pdf>.

Everyone should be able to participate on a KIIS program, attend a KIIS event, or work in a KIIS environment (e.g. KIIS office) without fear of sexual harassment or discrimination of any kind. Be respectful of each other.