CprE 234  Legal, Professional, and Ethical Issues in Cyber Systems
Department of Electrical and Computer Engineering
Spring 2019

Catalog Listing: The course emphasizes legal, ethical, and professional issues in cyber systems. Other topics include privacy, government regulation, and compliance as applied to professional practice. The course is delivered in a lecture plus a 2 hour recitation in a seminar format with guest lecturer from government and industry, as well as discussions including current legal and ethical issues found in the main stream.

(1-2)  Cr. 3

Prerequisites: credit in Com S 227, or EE 285, or MIS 207

After taking the course students will be able to:

- Use ethical decision-making applied to a business environment
- Differentiate between professional ethics and moral responsibilities
- Explain cyber security management including policies, standards, guidelines, and procedures
- Differentiate between privacy and security

List of Topics:

- Ethics in organizations and businesses
- Ethical decision-making
- Professional ethics vs. moral responsibilities
- Privacy
- Cyber security management and government
- Laws and regulations relating to cyber security and data classification
- Intellectual Property
- Incident response
- Trends in cyber security
- Policy and social issues

Lecture: 1 hour a week

Recitation: 2 hours a week (one 2 hour slot)

Instructor:

Office Hours:

Textbook: TBD

Website: In addition to the textbook given above, Canvas will be used (canvas.iastate.edu).
Chat room: All communication should be done through the class chat room.

Grading: Your grade for the course is based upon a midterm paper and between 5 and 8 reflection papers based on the recitation and the final exam. The grade is determined as follows:

50% recitation reflection papers
20% midterm paper
30% Final exam

The letter grades will be assigned based on the ranges below:

A    93 to 100%
A-   90 to less than 93%
B+   87 to less than 90%
B    83 to less than 87%
B-   80 and less than 83%
C+   77 and less than 80%
C    73 and less than 77%
C-   70 and less than 73%
D+   67 and less than 70%
D    63 and less than 67%
D-   60 and less than 63%
F    0 and less than 60%

Papers: Papers are due on the date stated when assigned. **No late submissions will be accepted.** There may be an exception made "in case of emergency." An example of an emergency would be an immediate family member passing away or personal injury to yourself. An emergency does not include fraternity meetings, special events, parties, or going home.

Reports must be either typewritten or very neatly handwritten. Illegible reports will not be graded.

Reports will be turned in electronically unless otherwise specified. The type of report will dictate what electronic format(s) I will ask for.

Final Exam: Our final exam will be as listed at the Registrar’s final exam schedule.

[www.registrar.iastate.edu/students/exams/fallexams](http://www.registrar.iastate.edu/students/exams/fallexams)
Course Schedule:

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<th>Week</th>
<th>Lecture</th>
<th>Recitation</th>
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<tr>
<td>1</td>
<td>Introduction to ethics</td>
<td>Group discussion, academic controversy</td>
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<tr>
<td>2</td>
<td>Moral Responsibilities</td>
<td>Outside speaker: Current CSO</td>
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<td>3</td>
<td>Intellectual Property</td>
<td>Outside speaker: IP lawyer</td>
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<td>4</td>
<td>Information Privacy</td>
<td>Outside speaker: CSO</td>
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<td>5</td>
<td>Data Classification</td>
<td>Outside speaker: CSO</td>
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<tr>
<td>6</td>
<td>Legal issues</td>
<td>Outside speaker: FBI</td>
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<td>7</td>
<td>Legal Issues (Pen testing)</td>
<td>Outside speaker: Pen testing professional</td>
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<td>8</td>
<td>Compliance</td>
<td>Outside speaker: Medical</td>
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<td>9</td>
<td>Compliance</td>
<td>Outside speaker: PWC (or similar)</td>
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<td>10</td>
<td>Policies</td>
<td>Outside speaker: CSO</td>
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<td>11</td>
<td>Government issues</td>
<td>Outside speaker: DHS</td>
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<td>12</td>
<td>Breach management</td>
<td>Outside speaker: CSO</td>
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<td>13</td>
<td>Cyberterrorism</td>
<td>Outside speaker: FBI</td>
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<td>14</td>
<td>Professional ethics</td>
<td>Group discussion with outside panel</td>
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<tr>
<td>15</td>
<td>Wrap up</td>
<td>Group discussion, course feedback</td>
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Academic Dishonesty: The class will follow Iowa State University’s policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office. [www.dso.iastate.edu/ja/academic/misconduct.html](http://www.dso.iastate.edu/ja/academic/misconduct.html)

Disability Accommodation: Iowa State University is committed to assuring that all educational activities are free from discrimination and harassment based on disability status. All students requesting accommodations are required to meet with staff in Student Disability Resources (SDR) to establish eligibility. A Student Academic Accommodation Request (SAAR) form will be provided to eligible students. The provision of reasonable accommodations in this course will be arranged after timely delivery of the SAAR form to the instructor. Students are encouraged to deliver completed SAAR forms as early in the semester as possible. SDR, a unit in the Dean of Students Office, is located in room 1076, Student Services Building or online at [www.dso.iastate.edu/dr/](http://www.dso.iastate.edu/dr/). Contact SDR by e-mail at disabilityresources@iastate.edu or by phone at 515-294-7220 for additional information.

Dead Week: This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook [www.provost.iastate.edu/resources/faculty-handbook](http://www.provost.iastate.edu/resources/faculty-handbook).

Harassment and Discrimination: Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault),
pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

Religious Accommodation: If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.