CSE 5889.01 (Proposed): Advanced Topics in Law & CSE

Course Description

This interdisciplinary seminar explores an advanced topic of study on laws that govern computer engineering and design. The course offers additional exposure to legal methodologies, and trains students to apply legal analysis to an engineering project of their choosing.

Transcript Abbreviation: AdvTopLawCSE
Grading Plan: Letter Grade
Course Deliveries: Classroom
Course Levels: Undergrad, Graduate
Student Ranks: Junior, Senior, Masters, Doctoral, Professional
Course Offerings: Autumn, Spring
Flex Scheduled Course: Never
Course Frequency: Odd Years
Course Length: 14 Week
Credits: 2.0
Repeatable: No
Time Distribution: 2.0 hr Sem
Expected out-of-class hours per week: 4.0
Graded Component: Lecture
Credit by Examination: No
Admission Condition: No
Off Campus: Never
Campus Locations: Columbus
Prerequisites and Co-requisites:
Exclusions:
Cross-Listings:

Course Rationale: This course builds further opportunities for trans-disciplinary study between CSE and Law.

The course is required for this unit's degrees, majors, and/or minors: No
The course is a GEC: No
The course is an elective (for this or other units) or is a service course for other units: Yes

Subject/CIP Code:
Subsidy Level:

Programs

Abbreviation	Description
BS CSE	BS Computer Science and Engineering
MS CSE	MS Computer Science and Engineering
PhD CSE	PhD Computer Science and Engineering

Course Goals

Be competent in the identification of legal issues that arise in the development and application of computing technology in modern society
Be competent in the ability to formulate and advocate for multiple points of view in analyzing legal disputes arising in the context of computing technology

Be familiar with the larger legal, business, and societal contexts in which decisions are made regarding the creation, development, and use of computing technology
Be familiar with engaging in cost-benefit analysis when choosing among different legal strategies with respect to computing technology
Be familiar with effective methods of written and oral communication
Be exposed to legal issues that computing professionals may encounter as part of their practice

Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Tort Liability	0.5							
Privacy & Free Speech	0.5							
Cybersecurity & Computer Crimes	0.5							
Intermediary Liability & Telecom Policy	0.5							

Representative Assignments

Read edited excerpts from judicial opinions and background texts
Write short responses to selected prompts
In-class presentation and final paper analyzing the legal dimensions of a computer engineering project

Grades

Aspect	Percent
Final paper & presentation	40%
Weekly response pieces	40%
Class participation	20%

Representative Textbooks and Other Course Materials

Title	Author
How to Write Law Exams: IRAC Perfected	S.I. Strong & Brad Desnoyer
The Oxford Introduction to U.S. Law: Torts	John C.P. Goldberg & Benjamin Zipursky
Internet Law: Cases & Problems	James Grimmelmann
Computer Crime Law	Orin S. Kerr
Information Privacy Law	Daniel J. Solove & Paul M. Schwartz

ABET-EAC Criterion 3 Outcomes

Course Contribution		College Outcome
*	a	An ability to apply knowledge of mathematics, science, and engineering.
	b	An ability to design and conduct experiments, as well as to analyze and interpret data.
*	c	An ability to design a system, component, or process to meet desired needs.
***	d	An ability to function on multi-disciplinary teams.
*	e	An ability to identify, formulate, and solve engineering problems.
***	f	An understanding of professional and ethical responsibility.
***	g	An ability to communicate effectively.

Course Contribution		College Outcome
***	h	The broad education necessary to understand the impact of engineering solutions in a global and societal context.
*	i	A recognition of the need for, and an ability to engage in life-long learning.
**	j	A knowledge of contemporary issues.
*	k	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

BS CSE Program Outcomes

Course Contribution		Program Outcome
*	a	an ability to apply knowledge of computing, mathematics including discrete mathematics as well as probability and statistics, science, and engineering;
	b	an ability to design and conduct experiments, as well as to analyze and interpret data;
***	c	an ability to design, implement, and evaluate a software or a software/hardware system, component, or process to meet desired needs within realistic constraints such as memory, runtime efficiency, as well as appropriate constraints related to economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability considerations;
***	d	an ability to function on multi-disciplinary teams;
*	e	an ability to identify, formulate, and solve engineering problems;
***	f	an understanding of professional, ethical, legal, security and social issues and responsibilities;
***	g	an ability to communicate effectively with a range of audiences;
***	h	an ability to analyze the local and global impact of computing on individuals, organizations, and society;
**	i	a recognition of the need for, and an ability to engage in life-long learning and continuing professional development;
***	j	a knowledge of contemporary issues;
*	k	an ability to use the techniques, skills, and modern engineering tools necessary for practice as a CSE professional;
*	l	an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;
	m	an ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices;
**	n	an ability to apply design and development principles in the construction of software systems of varying complexity.

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