

McHenry County College · Career & Technical Education · CIS and Digital Media

COMPUTER ETHICS CDM-120

Spring 2022 Section 001 3 Credits 01/18/2022 to 05/13/2022 Modified 12/25/2021

• Meeting Times

Section 001N Flexible Online

Contact Information

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Email: mwood@mchenry.edu Office: Faculty Office A124 Phone: 815-455-8732

Website: Canvas Website: https://mchenry.instructure.com/

Office Hours: Via email

Materials

Data and Goliath

Author: Bruce Schneier

Publisher: W. W. Norton & Company

ISBN: ISBN-10: 039335217X ISBN-13: 978-0393352177

Availability: This text can be purchased at the MCC bookstore or through Amazon.

https://www.amazon.com/Data-Goliath-Battles-Collect-Control-dp-039335217X/dp/039335217X /ref=mt_paperback? _encoding=UTF8&me=&qid= (https://www.amazon.com/Data-Goliath-Battles-Collect-Control-dp-039335217X /dp/039335217X/ref=mt_paperback?_encoding=UTF8&me=&qid=)

Required Course Textbook

Description

Computer Ethics asks students to explore the ethical dilemmas faced by computer professionals. Discussions center on computer crime, hacking, viruses, machine errors, invasion of privacy and computerization of the workplace. (1.2-Articulated)

Objectives

Upon completion of this course, the student will be able to:

- 1. Identify Ethical Theories within Western Philosophy: Deontological Theories (Kant) and Utilitarian Theories.
- 2. Identify principles of computer ethics, such as: Respect for intellectual property; Respect for privacy; Nonmalifecense (do no harm); and Fair Representation.
- 3. Differentiate Morals and Ethics
- 4. Explain the purpose of, and need for, professional Ethics and the absence of professional Ethics in computer professions.
- 5. Develop an appreciation for how computer and information technology create ethical issues.
- 6. Develop an appreciation for the complexity of Ethical issues faced by computer professionals.
- 7. Evaluate web sites for creditability.
- 8. Research, evaluate and present ethical solutions to current issues involving dilemmas faced by computer professionals and users.

Course Outline

I. Ethical theories

- A. Deontological Theory
- B. Utilitarian Theory
- II. Morals vs. Ethics
- III. Ethical principles for computer professionals
 - A. Respect for privacy
 - B. Respect for intellectual property
 - C. Fair representation
 - D. Nonmalifecense (do no harm)
- IV. Internet Crime
 - A. Cyber Armies
 - B. Government controls of the Internet
 - C. Computer Forensics
- V. Privacy
 - A. Data collection
 - B. Identity theft
- VI. Ethics and the Internet
 - A. Trade Secret
 - B. Piracy
 - C. Protecting Your Own Work
 - D. Freedom of Expression
 - E. Cyberbullying
 - F. Hackers
- VII. Intellectual Property
 - A. Copyright
 - B. Trademark
 - C. Patent
 - D. Acceptable Use
 - E. Work for hire
- VIII. Social Networking
 - A. Provider liability
 - B. Responsibility vs. liability
 - C. Privacy
 - D. Cyber Bullying

Evaluation

Breakdown

Grading Scale:

90%-100% - A

89%-80% - B

79%-70% - C

69%-60% - D

Below 60% - F

Criteria

Grades will be based on a combination of assignments. These will include discussion board posts, position papers, research of current events pertaining to ethical issues, analysis of real world case studies and a final paper

Grades will be calculated as follows:

Week 1 Personal Introduction Post- 20 points & Course Requirements Assignment- 10 points

- 11 Discussion Board Posts (initial post and 1 response post) 30 points each
- 13 Position Papers 40 points each
- 2 Case Study Analyses- 40 points each
- 1 Evaluation of information reliability- 30 points

Research Project- 40 points

Final Paper - 275 points

REQUIREMENTS FOR THE FINAL PAPER

Clearly state your thesis regarding the importance of ethics in our digital world.

Consider all of the topics addressed during the course of the class.

To support your thesis, give clear and specific examples from the textbook, articles and multimedia resources that we have used, as well as your own research for the current event discussions.

Your paper should be approximately 7 to 10 pages of narrative, double spaced using 1 inch margins all around. Use page numbers at the bottom of each page. Your name should appear in the header of each page.

You should also attach a Works Cited page for the references you use. Bibliographic citations need not use a specific style (i.e. APA or MLA) but should include title, author, date, publisher, and URL (if applicable).

Proper writing conventions will be expected.

REQUIREMENTS FOR DISCUSSIONS AND POSITION PAPERS

During most weeks you will have one discussion assignment which will require an initial post of approximately 150 words and 1 response post. Additionally, during most weeks a position paper of approximately 2 to 3 pages of narrative will be assigned. You will need to read the assigned chapter and view the multimedia resources carefully prior to responding to the discussion questions for the assigned discussions and position papers. Position papers and discussions will be graded on the basis of your narrative description and the strength of your argument. You will not be graded on which side of the issue you take, but on how well you state your case, use examples, and incorporate concepts introduced in the readings and multimedia resources. You must write in complete, grammatical sentences, organized into paragraphs. No outlines are allowed.

REQUIREMENTS FOR CASE STUDY ANALYSES AND RESEARCH PAPER

Specific instructions for these assignments will be outlined in Canvas. However, unlike the position papers and discussions, the case studies present ethical dilemmas that require specific ethical solutions. You will be required to advocate for the ethical solution.

You will be evaluated on the ethics presented in your solution.

* Course Policies

All assignments are due on the due dates listed in Canvas and on the syllabus.

You are expected to remain current with your assignments.

Discussion Board & Position Paper Assignments:

If due to an extraordinary circumstance you will be unable to complete your assignments for a particular week, you are expected to contact me via the Canvas email immediately. You will be granted an extension at my discretion with the understanding that your grade will be lowered by 15% from what you would have received had your assignment been submitted on time. In most cases, discussion board assignments are NOT granted an extension. No assignments will be accepted more than 5 days after their due date. No assignments will be accepted after the final day of class.

Case Study Analyses, Research Paper & Final Paper:

If due to an extraordinary circumstance you will be unable to submit your assignments by the due date listed on the timetable below, you are expected to contact me via the Canvas email immediately. You may, at my discretion, be granted a five (5) day extension period within which to submit your assignment, with the understanding that your grade will be lowered by 15% from what you would have received had your assignment been submitted on time. If you have not contacted me by the assignment due date, and you have not submitted your assignment, you will be assigned a zero for the assignment. If you have contacted me, but have failed to submit your assignment through Canvas within the five (5) day extension period, you will subsequently be assigned a zero for the assignment. The final paper must be submitted by the due date listed on the syllabus. No extensions will be granted for this paper. No assignments will be accepted after the final day of class.

Withdraw From A Class

The last day to withdraw from this course is 11/12/2021. Failure to attend does not remove a student from classes at MCC. Students are encouraged to consult directly with their instructor, an academic advisor and financial aid personnel to ensure all respective requirements are still being met. Students may withdraw from a class online through myMCC > Self-Service, in person in the Registration Office or by fax: (815) 455-3766. The MCC College catalog provides specific information about withdrawal from a course.

₩ Withdraw From A Class

The last day to withdraw from this course is 04/15/2022. Failure to attend does not remove a student from classes at MCC. Students are encouraged to consult directly with their instructor, an academic advisor and financial aid personnel to ensure all respective requirements are still being met. Students may withdraw from a class online through myMCC > Self-Service, in person in the Registration Office or by fax: (815) 455-3766. The MCC College catalog provides specific information about withdrawal from a course.

Schedule

WEEK	Textbook Readings & Multimedia Viewing	ASSIGNMENTS
Week 1 1/18 - 1/24	Topic: Society, Technology and Data Text: Introduction pp. 1 - 9 WATCH: Frontline: Facebook Dilemma:Parts 1 & 2	Course Requirements Assignment Due1/23 Discussion – Introduce Yourself Due 1/23 Position Paper-How does our technology dependent world affect our society?" Due 1/24
Week 2 1/25 - 1/31	Topics: • Unethical Leadership • Ethics of Data Mining TEXT: Chapters 1, 2 & 3 pp. 13-45 READ: the articles: Biggest Tech Scandals of 2020, 2019. & 2018 (https://mchenry.instructure.com/courses/1469118/pages/week-2-topics-and-assignments) ZDNet article- Facebook to Overhaul Ad Targeting System CNBC Article: U.S. tech giants are reportedly providing web services to blacklisted Chinese surveillance firms WATCH: 60 Minutes: Data Brokers 60 Minutes Overtime: Protecting Your Online Privacy. 4 Corners: In Google We Trust	Current Event Discussion: Effects of Unethical Leadership Due1/30 Position Paper – Is data mining ethical? Due 1/31

Week 3	Data Exploitation & Politics Facebook & Combridge Apolytics	Position Paper:Ethics of Cambridge Analytica Due 2/6
2/1 - 2/7	Facebook & Cambridge AnalyticaEthics for IT Workers & Users: Software Piracy	
	TEXT: Text chapter 4 - The Business of Surveillance pp. 46-61	<u>Case Study & Ethics Analysis</u> <u>-"Troubled Programmer"</u> Due 2/7
	WATCH:	
	"The Great Hack": Netflix documentary examines Cambridge Analytica scandal	
	CNN: What you need to know: Facebook's data debacle	
	Additional news reports & videos on Cambridge Analytica	
	READ for Case Study:	
	3 articles on software piracy	
Week	Topic: Government Surveillance	Discussion: National security
2/8 -	TEXT: Chapter 5: Government Surveillance & Control pp. 62 – 71 (Government Hacks)	and citizen rights Due 2/13
2/14	WATCH:	Position Paper- Government
	Frontline: United States of Secrets-Part 1	surveillance of private citizens Due 2/14
	Frontline: Spying on the Homefront	
Week 5	Topic:	Discussion- Snowden: Hero or villain? Due 9/20
	Consolidation of Government & Corporate Surveillance	vinairi: Due 3/20
2/15- 2/21	READ Textbook Chapter 6 - Consolidation of Institutional Control pp. 78-87	Position Paper-Corporations
	WATCH:	sharing private data with the NSA Due Due 2/21
	Frontline: United States of Secrets-Part 2	
	Documentary: Citizen Four	
	2 Interviews: Snowden & Snowden regarding cell phone surveillance	
	READ:	
	Interview: Snowden 5 years later	
	2 news articles assessing the effectiveness and legality of the government surveillance programs	
	AP News article on banks selling customer data	

Week	Topic: Does Privacy Matter?	Discussion- How much
6	READ Textbook Chapter 10 - Privacy pp. 125-134	personal data are you willing to share online? Due 2/27
2/ 22 - 2/28	WATCH:	order crimite.
	3 TED Talks	Position Paper- Does privacy
	READ the articles:	matter? Due 2/28
	What Does Google Know About Me?	
Week	Topics: Hacking, Cyber-Attacks, & Cyber-War	Current Event Discussion- The
7 3/1 -	TEXT: Chapter 5 - Government Hacks & Government Attacks pp. 71-75	Solar Winds Hack Due 3/6
3/7	WATCH:	Position Paper – Iranian Cyber
	NOVA: Rise of the Hackers	Army Due 3/.7
	NOVA: CyberWar Threat	
	Read:	
	3 Articles on International Hacks	
Week	Topic: Cyberterrorism	Discussion: Who has the most
8	TEXT: Chapter 11 - Security pp. 135-151	to lose with cyberterrorism? Due 3/13
3/8 - 3/14	READ: New York Times article: Obama Order Sped Up Wave of Cyberattacks Against Iran (Links to an external site.) (https://www.nytimes.com/2012/06/01/world/middleeast/obama-ordered-wave-of-cyberattacks-against-iran.html) WATCH:	Position Paper- Ethics of U.S. Lauching Stuxnet Computer Worm Due 3/14
	Documentary: Zero Days	
	NOVA: Snowden Interview	
	2 additional videos on Stuxnet	
Week	Topic: Freedom of Expression	Discussion- discussion
9	TEXT: Chapter 7 - Political Liberty & Justice pp.91-107	evaluating whether all forms of speech or expression be
3/15 - 3/21	READ & view articles and videos found on Week 9 Topics and assignments page	considered as free speech and covered under the 1st Amendment? Due 3/20
		Evaluating Information Using the CRAAP Test Due 3/21
		Position Paper – position paper evaluating how digital technologies went from empowering citizens and toppling dictators to being used as tools of oppression and discord? Due 3/21

Week 10 3/22 - 3/28	Topic: Intellectual Property - Work for Hire No text chapters assigned for this week Read 4 articles on Work for Hire View "Crash Course # 2" Intellectual Property - Copyright Law"	Topic: Intellectual Property - Work for Hire No text chapters assigned for this week Read 4 articles on Work for Hire View "Crash Course # 2" Intellectual Property - Copyright Law" Work fir Hire Research paper Due 3/27 Work for Hire Case Study Due:3/28
Week 11 3/29 - 4/4		SpringBreak No Assignments Due
Week 12 4/5 - 4/11	Topic: Net Neutrality No text chapters assigned for this week Read three articles on net neutrality WATCH: 3 videos on net neutrality	Current Event Discussion— Current status of net neutrality Due 4/10 Position Paper: Should you care about net neutrality? Week 11 Position Paper: Why Should We Care About Net Neutrality? Due:4/11
Week 13 4/12'- 4/18	Topic: Social Networking TEXT: Chapter 8 – Fairness and Equity pp. 108 – 118 View the videos on manipulation technology: Manipulation Technology: The Social Delimma Videos	Discussion: Influence of Social Media Postings Due 4/17 Position Paper: Ability of Social Media Platforms to Influence Behavior DUE: 4/18
Week 14 4/19 - 4/25	Topic: Cyberbullying No text chapters assigned for this week WATCH: Submit* The Documentary TONIGHT: Bullies Online	Discussion- Who should monitor the Internet? Due 4/24 Position Paper: How do we stop cyberbullying? Due 4/25

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Week 15 4/26 5/9	Topics: • Productivity & Quality of Life • Artificial Intelligence • Robotics No text chapters assigned for this week WATCH & READ: 7 news reports and read 5 articles on data collection, artificial Intelligence and robotics	Current Event Discussion-How are Al, data collection, and robotics currently being used to transform health care? Due 5/8 Position Paper-Is Al good for our society? Due Due 5/9
FINAL: 5/10 - 5/12	Topic: Final Paper	FINAL PAPER TOPIC Why is it important to consider ethics in our digital world? Due 5/12 Final date to submit any missing assignments is May. 11th.

1 Institutional Policies

Academic Support for Special Populations Students

MCC values an inclusive learning environment for all students, and those seeking academic accommodations should call or visit the Access and Disability Services office, located in Room A-256 in the Atrium area of A Building. Students seeking information about disability services at MCC should call (815) 455-8766 or visit www.mchenry.edu/access.

Academic Integrity

MCC is committed to providing a superior educational experience for all students who attend. Academic integrity and honesty in all educational classrooms and programs are critical in providing this high level of education.

Students are expected to behave as responsible members of the College community and to be honest and ethical in their academic work. MCC strives to provide students with the knowledge, skills, judgment, and wisdom they need to function in society as educated adults. Students who falsify or fabricate the results of their research; present the words, ideas, data, or work of another as their own; or cheat on an examination corrupt the essential process of higher education.

Academic dishonesty in any form, including cheating, plagiarism, and all other acts of academic theft, is considered intolerable. Authorized College personnel will not hesitate to impose appropriate sanctions up to and including suspension from MCC for acts of academic dishonesty.

General Education Goals

McHenry County College's commitment to its students includes a general education component structured to provide a wide array of life and career skills, which will enrich students' professional and personal lives. Courses at MCC are designed to enhance students' critical thinking, information literacy, effective communication, and professionalism: MCC's four General Education Goals. Information about the General Education Goals can be found here.

Assessment and the E-Portfolio

Students seeking an AA, AS, AFA, AES, or AGE degree will be required to complete an <u>e-portfolio</u>. The purpose of the e-portfolio is to ensure that students complete graded work in all four of the General Education Goals. In addition, the e-portfolio allows the College to assess student achievements in these areas and develop transformations in course design, teaching methods, and textbook selection.

Classroom Behavior

To foster a positive learning environment, students and instructors have a shared responsibility in the classroom. The College is committed to creating safe, welcoming, and inclusive spaces where everyone can feel comfortable and strive together for student success. To that end, students' focus in the classroom should be on the tasks at hand and not on extraneous activities (*e.g.*, texting, chatting, making phone calls, playing games, etc.). MCC instructors have the responsibility of maintaining a positive learning environment and may issue necessary sanctions within the classroom. Serious violations, such as threats, acts of violence, or repeated offenses may be referred for sanctions outside of the classroom as outlined in the <u>Student Code of Conduct</u>.

Nondiscrimination Statement

McHenry County College declares and reaffirms a policy of equal opportunity and nondiscrimination. The College will make all decisions regarding admission, employment, participation in educational programs, or activities without discrimination on grounds of race, color, creed or religion, sex, national origin, age, physical or mental disabilities, sexual orientation, veteran status, or other factors. MCC is committed to diversity and inclusion in its college community.

The lack of English-language skills will not be a barrier to admission and participation in educational programs. More information can be found <u>here</u>.

Personal Concerns

MCC offers help to students experiencing difficulties that interfere with their studies. The Crisis Intervention and Prevention Services office, located in A-252 and by phone at (815) 479-7572, provides support for students experiencing personal issues or mental health concerns. Students can also contact the McHenry County Crisis Hotline at (800) 892-8900 or can download and use the McHelp App. Both the hotline and app provide services twenty-four hours a day.

Resources

The following are useful resources available to you as a student at McHenry County College:

- Academic Calendar
- Final Exam Schedule
- Access and Disability Services: (815) 455-8766; Office A256
- Advising and Transfer Center: (815) 479-7565; Office A257
- Financial Aid: (815) 455-8761; Office A262
- <u>Library</u>: (815) 455-8533; Office A212
- Student Veterans Resource Center: (815) 479-7543; Room A248.
- Tutoring and Study Skills (Sage Learning Center): (815) 455-8579; Library, A212L
- Student Success Fund (for students experiencing financial crisis)
- Additional Support for Students in Need
 - Purple Closet (for students needing professional clothing)
 - Purple Pantry (for students needing access to food)
- Other <u>Support Services</u>
 - Campus Alert at https://www.mchenry.edu/notifyme/
 - Career Services
 - Children's Learning Center
 - Copyright at http://libguides.mchenry.edu/copyright/students)
 - Financial Aid
 - IT Help Desk
 - <u>Library</u>
 - Student Success Center
 - Student Activities
 - Multicultural Affairs
 - College Success Coaches
- Testing Center

Recording

This class will (may) be recorded by MCC. Recording by students or other parties for non-academic use is not permitted in order to protect student privacy.

Masks/Face Coverings Required on Campus

Based on the county's substantial/high COVID-19 transmission rate and the CDC's recent mask updates, all MCC employees, students, and visitors—whether vaccinated or not—are required to wear masks/face coverings on campus when indoors.

Student Email

Each MCC student now has a Microsoft Office 365 account. This comes with access to a suite of tools including Microsoft Word, Excel, PowerPoint, and Teams, 1TB of cloud storage, and a dedicated "@students.mchenry.edu" Outlook email address. You can access your Office 365 account at www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com/http://www.office.com

As of September 1, 2021, all communications from the college will be directed to your @students.mchenry.edu email account. Please check it regularly to stay up-to-date on important information.

Learn more at www.mchenry.edu/tech/email.html) or contact the IT Helpdesk at (815) 455-8457.

Additional Items

Students in Career/Technical Programs

As a student enrolled in a career or technical education program at McHenry County College, you may be eligible for services and assistance under the Carl D. Perkins III Grant. Grant funds are used, in part, to assist students who are at risk of not succeeding in their educational pursuits. The traits that often prevent students from succeeding are: economic disadvantage, academic disadvantage, disability/disabilities, single parent, displaced homemaker, enrollment in a program in which their gender is under represented, and limited English proficiency (LEP). The definitions of each trait are available in the Access and Disability Services office. Students with one or more of these traits are referred to as Perkins Special Populations Students.

If you would like to know if you are eligible for services at any time during the semester, please do not hesitate to contact the Manager, Access and Disability Services. The office is Room A260, and phone number is (815) 455-8676.