Course Instructor: Dr. Cheyenne Laue  
Office: SS 206  
Office Hours: MW 3-4 or by appointment

Course Instructor: Dr. Alden Wright  
Office: SS 407 Office phone: 243-4790  
Office Hours: TT 1:30-3:00 and by appointment. Feel free to stop in if I am in my office.

Class Meeting Time: MWF 2 – 2:50  
Class Meeting Place: Social Science 362

Course Objectives:

This course introduces the basics of ethical reasoning and argumentation as a basis for understanding the ethical dilemmas faced by computer scientists. The course introduces students to the professional code of ethics used by computer scientists, legal issues involved in technology, and the social implications of computers, computing, and other digital technologies.

During this class, you will:

- Understand, identify, and apply different ethical philosophies, frameworks, and methodologies.
- Identify and interpret the codes of professional conduct relating to the disciplines of computer science and software engineering.
- Analyze the local and global impact of computing on individuals, organizations, and society.
- Understand and apply the concepts and principles of moral thinking to problems relating to computing and digital technologies.
- Improve your skills writing argumentative essays and pieces, and in critical thinking, analysis, and presentation.
- Become familiar with a number of noteworthy essays written by influential researchers in the field of cyberethics.

This class also satisfies the UM upper-division writing requirement, ethics and human values requirement, and Computer Science major requirement.

Course Policies

Academic Integrity:
All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by The University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at
Disability Accommodation:
Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please contact us after class or in one of our offices. Please be prepared to provide a letter from your DSS Coordinator. For more information, visit the Disability Services website at http://www.umt.edu/dss/ or call 406.243.2243 (voice/text).

Course Policies:
- During this course we will discuss ethical issues and topics that may be sensitive in nature for some students. All students are expected to maintain a respectful attitude towards diverse opinions and perspectives during class discussions and interactions.
- Cell Phones/Pagers/IPads: If the cell phone/pager is not emergency related, turn them off. If the cell phone interferes with the process of the class, you may be asked to leave the class. If there is a reason to keep your cell phone active, place on vibrate. If you receive a call, please leave the classroom quietly to take the message. Cell phones, pagers, tablets, and laptops must be turned off during exams.

Changes to Syllabi:
The instructors reserve the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances. If changes are made to the syllabus, amended copies will be dated and made available to the class.

Grading and Assessment:
Your grade in this course will be based on the following assessments:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-class writing assignments</td>
<td>35 @ 5 points each 175</td>
</tr>
<tr>
<td>Attendance and participation in class</td>
<td>36 @ 3 points each 108</td>
</tr>
<tr>
<td>Quizzes</td>
<td>7 @ 15 points each 105</td>
</tr>
<tr>
<td>Writing Assignments</td>
<td>5 @ 25 points each 125</td>
</tr>
<tr>
<td>Workshops</td>
<td>4 @ 15 points each 60</td>
</tr>
<tr>
<td>Final Paper</td>
<td>100 points</td>
</tr>
<tr>
<td>Final Presentation</td>
<td>100 points</td>
</tr>
<tr>
<td>Total</td>
<td>773</td>
</tr>
</tbody>
</table>
Tentative Course Topics and Schedule

Week One January 13 - 19: Foundations in Ethics
M: Introduction to the Course – Cheyenne
W: Personal ethics/ avoiding fallacies and biases - Alden
F: Ethical Perspectives and traditions – Cheyenne

Week Two January 20 - 26: Ethical Traditions
M: Martin Luther King Jr. Day – No Class
W: Ethical Perspectives and traditions - Cheyenne
F: Ethical Perspectives and traditions – Cheyenne

Quiz 1 Due Sunday 26th

Week Three January 27 – February 2: Professional Ethics
M: Personal and professional ethics - Cheyenne
W: Citations and information literacy - Alden
F: ACM and IEEE overview - Alden
Writing Assignment 1 Due Friday 31th
Week Four February 3 - 9: Privacy
M: Whistleblowing - Alden
W: Intro to Privacy - Cheyenne
F: Location based data and Face recognition data – Cheyenne
Quiz 2 Due Sunday 9nd

Week Five February 10 -16: Privacy
M: Medical and health data – Cheyenne
W: Corporate Data Collection - Alden
W: Government data collection - Alden

Week Six February 17 - 23: Regulation
M: President’s Day – No Class
W: Writing Workshop 1
F: GDPR – Alden
Quiz 3 Due Sunday 23rd
Writing Assignment 2 Due Friday 21st

Week Seven February 24 – March 1: Regulation and Security
M: Intellectual Property - Cheyenne
W: Government censorship - Cheyenne
F: Introduction to Security – Alden

Week Eight March 2 - 8: Security
M: Staying safe online - Alden
W: Bots, botnets, vulnerabilities – Alden
F: IoT Overview – Cheyenne
Quiz 4 Due Sunday 8th

Week Nine March 9 - 15: Work and Wealth
M: IOT and Security - Alden
W: Smart Cities - Cheyenne
F: The automation of jobs/ UBI – Alden

Week Ten March 16 – 20: Spring Break

Week Eleven March 23 – 29: Social issues
M: Writing Workshop 2
W: Childhood and Technology Use - Cheyenne
F: Social media censorship – Cheyenne
Quiz 5 Due Sunday 29th
Writing Assignment 3 Due Friday 27th
Week Twelve March 30 – April 5: Social Issues
M: The digital divide - Cheyenne
W: Identity and interaction in cyberspace - Cheyenne
F: Algorithmic bias – Alden

Week Thirteen April 6 - 12: Future of CS Ethics/ Emergent Technologies
M: Writing Workshop 3
W: Social robotics - Cheyenne
F: Ethics and Pop culture – Cheyenne
Quiz 6 Due Sunday 12th
Writing Assignment 4 Due Friday 10th

Week Fourteen April 13 - 19: Future of CS Ethics
M: Ethics and Science Fiction - Cheyenne
W: Economies of Trust - Cheyenne
F: Tech companies and market monopolies - Alden
Writing Assignment 5 Due Friday 17th

Week Fifteen April 20 – 26:
M: Workshop 4 - Presentations
W: Post-humanism - Alden
F: Social implications of AI and Singularity – Alden
Quiz 7 Due Sunday 26th

Week Sixteen April 27 – May 1: Final Presentations
M: Final Presentations
W: Final Presentations
F: Final Presentations
Final Paper Due Friday 1st by 5pm

Week Seventeen May 4 - 8: Finals Week
W: Final Presentations May 6 3:20 – 5:20