### I. ASCRC General Education Form

<table>
<thead>
<tr>
<th>Group</th>
<th>VIII Ethics and Human Values</th>
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<tbody>
<tr>
<td>Dept/Program</td>
<td>Applied Computing and Electronics</td>
</tr>
<tr>
<td>Course Title</td>
<td>Ethics and Information Technology</td>
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<tr>
<td>Prerequisite</td>
<td>ENEX/WTS 101</td>
</tr>
<tr>
<td>Course #</td>
<td>CRT 122E</td>
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#### II. Endorsement/Approvals

Complete the form and obtain signatures before submitting to Faculty Senate Office.

<table>
<thead>
<tr>
<th>Please type / print name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor</td>
<td>Thomas Gallagher</td>
<td>FN / 9/25/08</td>
</tr>
<tr>
<td>Phone / Email</td>
<td>243.7814</td>
<td><a href="mailto:tom.gallagher@mso.umt.edu">tom.gallagher@mso.umt.edu</a></td>
</tr>
<tr>
<td>Program Chair</td>
<td>Thomas Gallagher</td>
<td>FN / 9/25/08</td>
</tr>
<tr>
<td>Dean</td>
<td>Barry Good</td>
<td>FN / 9/25/08</td>
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#### III. Description and Purpose of the Course:

General Education courses must be introductory and foundational. They must emphasize breadth, context, and connectedness; and relate course content to students’ future lives. See Preamble:

http://www.umt.edu/facultysenate/gened/GEPreamble_final.htm

**Ethics and Information Technology** studies the ethical dimension of decision making in the complex world of information technology. The first one-third of the course is devoted to general ethical philosophy and principles. It examines effective tools and processes used to resolve complex dilemmas and decision making. The remainder of the course explores information technology specific ethical issues. Included will be discussions on professionalism involving professional relationships, codes of ethics and licensure; intellectual property including patents copyrights, and trade secrets; online behavior including SPAM, hacking, and social engineering; privacy issues such as data mining, surveillance, and transaction generated information; accountability issues involving liability and negligence; and the impact of globalization, the digital divide, outsourcing, supply-chaining, and other issues involving the evolving global economy.

#### IV. Criteria:

Briefly explain how this course meets the criteria for the group. See:

http://www.umt.edu/facultysenate/ASCRCx/Adocuments/GE_Criteria5-1-08.htm

This course examines moral values and ethical practices for students seeking professional careers involving some form of information technology.

The course requires students to think critically by analyzing information technology issues from multiple perspectives using the traditional Western values of duty, consequences, and character.

#### V. Student Learning Goals:

Briefly explain how this course will meet the applicable learning goals. See: http://www.umt.edu/facultysenate/ASCRCx/Adocuments/GE_Criteria5-1-08.htm
Students are required to analyze and evaluate specific case studies and general ethical issues surrounding the use of information technology through assigned readings, classroom discussions, cooperative peer groups, written discussion boards, two analysis papers, and a written final exam.

VII. Syllabus: Paste syllabus below or attach and send digital copy with form. The syllabus should clearly describe how the above criteria are satisfied. For assistance on syllabus preparation see: http://teaching.berkeley.edu/bgd/syllabus.html

The University Of Montana
Department of Applied Computing and Electronics
Course Syllabus

CRT 122E Ethics and Information Technology
Credits: 3
Prerequisites: WTS101/ENEX101 English Composition
Last Updated: Summer Term 2008

Faculty Contact:
Tom Gallagher Phone: 406.243.7814 E-mail: thomas.gallagher@umontana.edu
Available by phone, email and appointment

Meetings:
Online: Content will be available Monday, Wednesday, and Thursday

Course Description:
Exploration of ethical issues in the field of computing. Skills needed to identify and analyze various ethical concerns. Standard ethical concepts and theories, methods of ethical analysis. Strong emphasis on practical application of the ethical process.

Required Text:

Course Overview:
Ethics and Information Technology studies the ethical dimension of ethical decision making in the complex world of information technology. The first one/third of the course examines general ethical philosophy and principles. It examines effective tools and processes used to resolve complex dilemmas and decision making. The remainder of the course explores information technology specific ethical issues. Included will be discussions on professionalism involving professional relationships, codes of ethics and licensure; intellectual property including patents copyrights, and trade secrets; online behavior including SPAM, hacking, and software engineering; privacy issues such as data mining, surveillance, and transaction generated information; accountability issues involving liability and negligence; and the impact of globalization, the digital divide, outsourcing, supply-chaining, and other issues involving the new global economy.

Course Objectives:
Upon completion of this course a student will:
1. Identify and describe common ethical concepts and theories.
2. Analyze ethical dilemmas and articulate a clear descriptive account prior to forming a normative course of action.
3. Demonstrate a process of philosophical analysis.
4. Identify common ethical issues facing professionals in the field of information technology.

5. Apply ethical concepts and an analytical process to common dilemmas found in the information technology field.

6. Demonstrate writing competency in the following areas:
   - Development of ideas
   - Organization
   - Appropriate voice
   - Proper mechanics
   - Relevance to assignment

General Education Component:
CRT122E is a designated lower division writing course. It fulfills the Ethical and Human Values Perspective 5 General Education Graduation Requirement as defined in The University of Montana Catalog.

Evaluation Procedures:

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Grade Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>Daily Classroom Activities</td>
<td>20%</td>
<td>90-100% A</td>
</tr>
<tr>
<td>Discussion Board Assignments</td>
<td>20%</td>
<td>80-89% B</td>
</tr>
<tr>
<td>Analysis Paper 1</td>
<td>20%</td>
<td>70-79% C</td>
</tr>
<tr>
<td>Analysis Paper 2</td>
<td>20%</td>
<td>65-69% D</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
<td></td>
</tr>
</tbody>
</table>

Grading Scale:
90-100% = A
80-89% = B
70-79% = C
65-69% = D
60-64% = F

Writing Assignments and Analysis Papers:
Online writing assignments are posted throughout the semester using the discussion board component of Blackboard. Students are expected to respond electronically. Prior to posting, written responses are to be created using a word processor and proofed for quality and content. Copy and paste can be used to submit the manuscript to the Blackboard discussion board. The expected length of discussion board submissions is 300 words.

Analysis papers provide students the opportunity to examine an ethical dilemma in greater depth. Submissions are 1200-1500 words in length and only accepted in a typewritten (word processor), double-spaced form. Prior to final submission, all analysis papers are required to complete the following process: final review by author, revision, peer review, revision, and final revision. A minimum of two analysis papers are required each semester.

Submissions will be evaluated in the areas of grammar/mechanics, clarity/organization, and effective analysis of the topic. It is recommended students follow the recommendations provided in preparation for the WPA when submitting assignments. WPA recommendations can be found at The University of Montana website [http://www.umt.edu/writingcenter/wpaprepare.htm](http://www.umt.edu/writingcenter/wpaprepare.htm).

Late Work:
Late work will be accepted at the discretion of the instructor and only allowed in extraordinary situations.

Academic Conduct
All students must practice academic honesty. Academic misconduct is subject to an academic penalty by 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: [http://www.umt.edu/SA/VPSA/index.cfm/page/1321](http://www.umt.edu/SA/VPSA/index.cfm/page/1321)

Special Information for Online Students Only: The course is offered entirely online through UMO. The summer variation of the course compresses its delivery to five weeks. Course content will be literature and writing intensive. Podcasts and short video presentations will be used to supplement reading materials. Multimedia materials will use the WMA, WMV, MP3, MP4, and RM (REAL) multimedia format. An internet connection with reasonable (DSL) bandwidth is recommended. The REAL media player will need to be installed to access online video presentations. The REAL media player can be downloaded free of charge at [http://www.real.com](http://www.real.com)
Class materials will be available on a Monday, Wednesday, and Thursday schedule. Expect each lesson to consist of a subset of reading material, audio and video webcasts, review questions, and discussion board activities.

A variety of short discussion board assignments will be used throughout the course. Two analysis papers a final exam will be required for completion. Students will be evaluated on review questions, discussion board assignments, analysis papers, and a final exam.

Computer Ethics, Deborah G. Johnson, 3rd edition, Prentice-Hall, 2001 is the required textbook for the course. The textbook is available through the bookstore on the College of Technology's East Campus located at 5 South Avenue West (next to Sentinel H.S.) or at various locations online. The online delivery of this course necessitates possession of the textbooks for first day of class. It now gives you less than one week to obtain textbooks. BE SURE TO HAVE THESE MATERIALS AVAILABLE FOR THE FIRST CLASS MEETING ON MONDAY MAY 19

Technical support is available through http://umonline.umt.edu and by telephone at 406.243.4357 for the Central Help Desk and 406.243.6394 for Blackboard specific questions.

Course Outline:
1. Introduction
   a. Introduction to Ethics
   b. Unique Dilemmas in Technology

2. Components and Ethical Theory
   a. Relativism, Absolutism, and Pluralism
   b. Consequences: Utilitarianism, Egoism, and Capitalism
   c. Kant and Deontology
   d. Rights-Based Theory
   e. Social Justice and Social Contract Theory
   f. Virtue Ethics
   g. Putting it all together: Multiple Perspectives and the Dialectic Process

3. Professionalism
   a. Professional Relationships
   b. Licensure and Professional Code of Ethics
   c. Conflict of Interest

4. Intellectual Property
   a. Traditional Protection: Copyright, Patents, Trade Secrets, and Trademarks
   b. Emerging Trends in Software: Open Source, ASP, Blackbox, Patents, and Activation

5. Privacy Issues
   a. Transaction Generated Information, Data Mining, and The Panopticon
   b. Laws, Policies, and Best Practices

6. Globalization
   a. Industrialization
   b. Friedman's Flat World
   c. The Digital Divide
   d. The Influence of Public Policy

7. The Internet and On-Line Ethics
   a. The Internet and Human Behavior
   b. Problematic Behavior
   c. Technology and Effective Communication
8. Accountability
   a. Categories of Responsibility
   b. Service-related and Product-related Accountability

*Please note: As an instructor of a general education course, you will be expected to provide sample assessment items and corresponding responses to the Assessment Advisory Committee.