Course Format
We meet for discussion, lectures and other activities usually twice a week for day classes and once a week, (3 hours) for evening classes. You will engage in some other activities on-line and separately with team members. All are mandatory. You will be responsible for attending all classes, reading the textbook and online materials, participating in online discussion and activities, and doing all assignments. If you must miss a class, email me in advance. You will be responsible for finding out what you missed.

Instructor
Prof. Todd C. Will
Telephone: 973-876-1148 (cell)
Office: GITC 5100
http://web.njit.edu/~txw5999
E-mail: todd.will@njit.edu
(include “IS350” in the email subject)
Office Hours: Tuesday-Thursday 5 to 6PM
Class Meetings: Tuesday, 6-9PM, CKB219
Tuesday, 11/22 follows a Thursday schedule, no class this week

General Course Information
1. Prerequisites:
As prerequisites, IS 350 requires an introductory course in computing, an introductory course in the social sciences, and HUM 101. This course is an upper-level course designed for juniors and seniors.

2. Course Goals:
Upon the completion of this course you should be able to:
   a. Explain beneficial and detrimental ways in which computing affects people, including the primary and secondary effects, and intended and unintended consequences.
   b. Utilize theories of ethical decision-making and professional codes of ethics to analyze difficult situations with computing aspects.
   c. Find and critically evaluate relevant literature pertaining to a situation of concern.
   d. Communicate about difficult issues in the computing sciences.

This is an ambitious set of goals, which meets several of the requirements for an ABET accredited degree in the Computing Sciences.

3. Time Required – This course requires a significant amount of work to help you achieve these goals. On average, you need to set aside up to 9 hours a week for this course, including
discussion, lecture, other classroom and online activities, reading, studying the materials, homework and team activities. This is even more compressed during the Summer.

4. **Lecture & Recitations** – The lecture slides cover the major course content and supplement (not repeat) the textbook. Readings and other online materials further supplement both the lecture slides and the textbook.

5. **Moodle** – Course materials and other information are on Moodle (moodle.njit.edu).

6. **Assignments**

   a. **Library Analysis** – How to use the library and to find good sources.

   b. **Weekly Online Discussion** – We’ll hold substantial discussion of the week’s topics both in class and online in Moodle.

   c. **Ethics Case Analysis, Assignment 1** - The only way to truly understand ethics is to apply the theories to real-world situations. Individuals will be responsible for reading and analyzing an ethical case scenario.

   d. **Debate, Assignment 2** – As part of a team you will persuasively argue about an ethical dilemma concerning technology in a debate format.

   e. **Judging Quality of Resources, Assignment 3** – This is an individual assignment that focuses on find good research sources on an interesting and timely topic.

7. **Community Service Internship** *(optional – NOT During Summer)* – NJIT Career Services can provide you the opportunity to work with a Newark-area non-profit organization using your skills to help that organization achieve its goals. This is a great experience, great service, can open doors for you, and looks great on your resume!

**Required Textbook, Readings & Materials**

**Textbook (various options)**

Michael J. Quinn, Ethics for the Information Age, 7th edition (2016).
- *printed, rental and online versions are available through the NJIT bookstore*

Alternative online version through CourseSmart ($48);
- coursesmart.com/9780133744088

(If you have a hard copy of the sixth edition, it may be “mostly good enough”, but your exams will mostly come from the 7th edition and it has some new material.)

**Readings & Materials**

All required journal articles will be linked to in the course Moodle and/or available through the NJIT digital library.

**Note:** From time to time I may assign additional readings and other materials.

Implications are due the day before class (Monday night)

**Words of Wisdom**
Do not get behind in reading the text and articles! You will regret it!

**Schedule: Part 1—History, Theory, and Ethics + NJIT Library Experience**

Acquiring the intellectual tools for analyzing the issues in Part 2 of the course.

<table>
<thead>
<tr>
<th>Topic</th>
<th>Modules and Topics</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>1</td>
<td><strong>Introduction</strong></td>
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<td>Readings + Materials:</td>
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<td>o Quinn, Appendix A (textbook)</td>
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<td>2</td>
<td><strong>M1. History of Computing</strong></td>
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<td>Online Discussion M1</td>
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<td>Library Research Assignment</td>
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<td>Topic</td>
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| 3     | **M2. Ethical Analysis**  
Lecture Slides:  
- Introduction to Ethical Theory  
- Doing an Ethical Analysis  
Readings + Materials:  
- Quinn, Chapter 2 (textbook)  
- *Any others posted on Moodle*  | Online Discussion M2  
See Moodle  
Read CONFIRM article  
(posted in Module 3’s materials)  
and be prepared to discuss in class on |
| 4     | **M3. Professionalism and Codes of Conduct**  
Lecture Slides:  
- Professional Ethics  
Readings + Materials:  
- Quinn, Chapter 9  
- ACM Code of Ethics  
- Software Engineering Code of Ethics  
- *Any others posted on Moodle*  | Online Discussion M3  
See Moodle  
Start working on Assignment 1  
(Ethical Analysis)  
&  
ACM Code of Ethics  
You should learn the  
*moral imperatives* in bold ‘*by heart*’ and understand what each of them means so that you can apply each. |

**Part 2—Social Issues Caused by the Rise of Computing Technology**

Discussing many topics and issues related to the introduction of computing into society. In each module we take up a different issue. Try to apply the ethical theories that we have studied to each issue. Who are the stakeholders and what is at stake? What are the intended and unintended consequences, as well as? Can you infer the secondary and tertiary effects?

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<tr>
<th>Date</th>
<th>Modules &amp; Topics</th>
<th>Assignments</th>
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| 5    | **M4. Equity, Gender, Access & the Digital Divide**  
Lecture Slides:  
- Equity, Gender and the Digital Divide  
Readings + Materials:  
- Quinn, Section 10.5  
- *Any others posted on Moodle*  | Online Discussion M4  
See Moodle  
&  
Assignment 1  
Submit Individual Report |
<table>
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<tr>
<th>Topic</th>
<th>Modules and Topics</th>
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| 6     | **M5. Examining the Net**  
Lecture Slides:  
- Social Issues raised by Web 2.0  
Readings + Materials:  
- Quinn, Chapter 3  
- *Any others posted on Moodle*  
Online Discussion M5  
See Moodle |
| 7     | **Midterm**  
The midterm will cover all materials until now.  
Midterm |
| 8     | **Critical Thinking about Information**  
Lecture:  
*This week we have several activities happening both in class and online during the days following class. There are no slides for this week's activities.*  
Online Discussion on what makes up Critical Thinking  
See Moodle |
| 9     | **M7. Privacy and Civil Liberties**  
Lecture Slides:  
- Computerized Databases + Privacy  
Readings + Materials:  
- Quinn, Chapter 5  
- *Any others posted on Moodle*  
Online Discussion M7  
See Moodle & |
| 10    | **M8. Computers + Government + Military**  
Lecture Slides:  
- Privacy and Government  
- Computing and the Military (Parts 1 and 2)  
Readings + Materials:  
- Quinn, Chapter 6  
- *Any others posted on Moodle*  
Online Discussion M8  
See Moodle &  
Debate submission due  
*Before next class*  
See Moodle |
| 11    | **Assignment 2: Debate in Class**  
Submit Assignment 2  
Group’s Debate Slides |
Each group debates using your PowerPoint presentation.

(Details and submission instructions are in the Top Section of Moodle.)

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<tr>
<th>Topic</th>
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<tbody>
<tr>
<td>12</td>
<td>M10. Computing &amp; Work, and Green Computing</td>
<td>Online Discussion for Module 10</td>
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<td>Lecture Slides:</td>
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<td></td>
<td>o Computing at Work and Home</td>
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<td>o Green Computing</td>
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<td>Lecture Slides:</td>
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<td>o Computer Crime &amp; Security</td>
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<td>Readings + Materials:</td>
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<td>o Quinn, Chapter 7</td>
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<td>o Any others posted on Moodle</td>
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<td>14</td>
<td>M12. Professional and Legal Responsibilities, Accountability, Liability, and Risk Management</td>
<td>Online Discussion for Module 12</td>
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<td>Lecture Slides:</td>
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<td></td>
<td>o Legal Issues and Accountability</td>
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<td>Readings + Materials:</td>
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<td>o Quinn, Chapter 8</td>
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<td>o Any others posted on Moodle</td>
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<td>15</td>
<td>M13. Digital Intellectual Property</td>
<td>Final Exam in Class</td>
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<td>Lecture Slides:</td>
<td>Tuesday 7/14: Final in class. The final will cover all materials from Modules 7-12.</td>
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<td>o Intellectual Property</td>
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<td>Readings + Materials:</td>
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<td>o Quinn, Chapter 4</td>
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<td>o Any others posted on Moodle</td>
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Suggestions, Questions, Problems and Falling Behind
If you have any problems or feel like you are falling behind, please contact me as soon as possible. It is your responsibility to recognize problems as early as possible, so we can work together to keep you progressing. Feel free to email me or visit during office hours if your comment is more private.

I welcome suggestions and questions. I encourage you to post these in the Moodle “Questions and Interesting Links” forum, so we can all share in the discussion.

Grading and other Requirements:
“A” breakers – You must do 3 things to be eligible for an A.
1. Post all assignments on time. Late assignments will lose 20% per day (not per class).
2. Participate in recitation and online discussions.
3. Attend all sessions or email me ahead of time if you will be late or cannot attend class.
   a. Attendance will be taken
   b. If you have three (3) unexcused absences you will lose one Letter Grade
   c. If you have six (6) unexcused absences you will be given an “F” for the course

If you will miss any assignment deadline or session, email me in advance. Otherwise you will be disqualified from an A. (Emailing me does not necessary earn back the A, but is a required courtesy.)

The percentages for all course work are as follows. These are subject to adjustment. Note that the instructor may decide to grade on a curve.

<table>
<thead>
<tr>
<th>Deliverables</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Library Analysis</td>
<td>10%</td>
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<tr>
<td>Assignment 1. Ethics Case Analysis</td>
<td>15%</td>
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<tr>
<td>Assignment 2. Debate (group)</td>
<td>15%</td>
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<tr>
<td>Assignment 3: Research Report</td>
<td>10%</td>
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<tr>
<td>Online Discussion</td>
<td>10%</td>
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<tr>
<td>Participation</td>
<td>10%</td>
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<tr>
<td>Midterm</td>
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<td>Final</td>
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<tr>
<td>TOTAL</td>
<td>100%</td>
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What if I Don’t Agree with my Grade?
If you do not agree with your grade, you have 1 week to dispute it after it is posted. Follow the instructions on Moodle.

But What If Moodle Crashes and I Cannot Submit Homework or Complete my Midterm or Final?
What if…? It’s simply too bad. Would your boss accept such an excuse? Do NOT wait till the last minute to do your homework or take your exam.

Academic Honesty, Integrity and Cheating
NJIT and Rutgers students are expected to follow published guidelines on academic honesty and integrity. You must acquaint yourself with these policies before submitting any assignments.

njit.edu/academics/integrity.php

Violations will be reported to the Dean of Students at both institutions and may result in failure in the course and probation, or failure in the course and expulsion. I pursue Honor Code violations immediately and aggressively.

If you know of a classmate who has cheated, please let me know.