Logic and Critical Thinking  
HU2701, Spring 2011  
Fisher 133 @ 12:35 – 1:50 pm.  
Professor David W. Rodiek, Ph.D.

**Purpose:** To introduce the student to the principles and applications of logic

**Required Texts:**
- John Dewey, *How We Think* (Dover, 1997)

**Requirements:**
- Attendance (20%)
- Homework Assignments / Exercises (20%)
- Quizzes (10%)
- Mid-Term: In class (20%)
- Final: In Class (30%)

MTU grading standard will be utilized:  
A: 93-100; AB: 88-93; B: 83-88; BC: 78-83; C: 73-78; CD: 68-73; D: 60-68; F: 0-60.

**Tentative Class Schedule / Roadmap**

Jan 1: Review Syllabus; Course Introduction;

**Part I: Experimental Logic**

Jan 13: Dewey  
Jan 18: Dewey  
Jan 20: Dewey  
Jan 25: Transition to Socratic Logic

**Part II: Syllogistic Logic**

Jan 27:  
Feb 1:  
Feb 3:  
Feb 8:  
Feb 15:
Part III: Predicate Logic

Mar 1: Logic for Dummies
Mar 3: Dummies
Mar 15: Dummies
Mar 17: Dummies
Mar 22: Dummies
Mar 24: Dummies
Mar 29: Dummies
Mar 31: Dummies

Part IV: Speculative Applications

April 5: Gödel, Escher, Bach (GEB)
Apr 5: GEB
Apr 7: GEB
Apr 12: GEB
Apr 14: GEB
Apr 19: GEB
Apr 21: GEB

Assignments for Parts II – IV will be communicated prior to the commencement of each section.

Administrative Information

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Office Hours: Tuesdays & Thursday, 3:30-4:30pm and by appointment.

Academic Dishonesty (University Policy)
According to University policy, "Academic Dishonesty is prohibited and includes the following violations: Plagiarism—copying another's work or ideas and calling them one's own or not giving proper credit or citation. Cheating—intentional use of any unauthorized study aids, equipment, or another's work during an academic exercise. Fabrication—intentional falsification or invention of any information or citation during an academic exercise without proper authorization. Facilitating academic dishonesty—allowing or helping another
individual to plagiarize, cheat, or fabricate information. *Penalty: not less than academic integrity warning, not more than expulsion.*
(http://www.admin.mtu.edu/idos/rights/regulations.html)

This policy (stated above) will be followed in this course. At a minimum, graded work that involves plagiarism, cheating, or fabrication (as defined above) will receive a grade of zero, and no opportunity will be afforded to make up the work. Computer software may be used to detect plagiarism.

**Disabilities**
Reasonable accommodations will be made for students with certain medical and psychological disabilities. You should notify the course instructor at the beginning of the semester if you wish to request such accommodations.

**Professional Courtesy**

- Make every attempt to arrive on time;
- Notify me in advance if you must leave class early;
- No texting: It indicates that you are not interested or engaged.
- No side conversations. It is annoying to me and to other students. Please direct your comments to the entire class.
- Exhibit behavior appropriate for university-level education.

*Please make this class a vital part of your educational experience!*