

**COURSE INFORMATION**      Location:            SCI 102 and MTH 115  
                                 Class Times:        MWF 10:00-10:50 and 11:00-11:50  
                                 Instructor:         Dr. Karl Frinkle  
                                 Office:             MTH 112  
                                 Office Hours:      MWF 9:00-10:00, MW 12:00-13:00, TR 9:15-12:00  
                                 Office Phone:      (580)745-2028  
                                 E-mail:            kfrinkle@se.edu  
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**TEXT**                    *Introduction to Logic and to the Methodology of Deductive Sciences* (2nd revised edition),  
by Alfred Tarski, ISBN # 0-486-28462-X

**COURSE OVERVIEW** In this course, we will cover such topics as the elements of logic and the deductive method, sentential calculus, theory of relations and the deductive method and applications of logic to constructing mathematical theories.

As a general education course, this course will satisfy the goal of the mathematical or quantitative reasoning component of general education: to develop the ability of students to understand and apply mathematical abstraction. As such, students will (1) solve problems using the principles of algebra or symbolic logic; (2) apply mathematical reasoning to analyze and interpret quantitative information; and (3) use and interpret mathematical formulas.

**COURSE OUTLINE**    We will cover most, if not all, of the topics from chapters 1 through 5. There will be a large emphasis placed on group discussions regarding reading assignments and the corresponding homework problems. Thus, 20% of your grade will come from classroom participation, which involves answering questions, responding to the reading assignments and being able to describe solutions to problems put forth by the book and the instructor.

Random quizzes will be given(i.e. without advanced notice), throughout the semester. If it becomes apparent that students are not coming to class prepared, quizzes will become more frequent.

There will be a two week, take home, comprehensive final. You will not be able to work in groups, use the internet or use any other outside the course material, besides talking to me.

**COURSE GOALS**        The book we will be using is a classic treatise on the field of logic by one of the founders of modern logic. As such, it may not be the easiest read. One of the major goals of this course is to have you, the student, learn to read and fully interpret this text.

One of the major outcomes of successfully reading this book, and taking this course, will be the ability to form logical arguments, interpret logical arguments, and derive conclusions correctly from assumptions and statements.

Furthermore, the rules and methods of logic will be applied to the foundations of mathematics, and will hopefully give you an appreciation for how much the field of mathematics relies of logic.

**POLICIES**                You will not be able to make up a quiz or receive credit for any other assignment which you missed the deadline for unless you notify me ahead of time. Given prior notification of an absence, I will ensure that you can take the quiz or hand in your homework at a more convenient time.

Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued and you will fail the course.

All cell phones, pagers, CD players, laptops, calculators and other such devices must be turned off and put away before class begins. It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

If you are caught using a cell phone or any other electronic device during class, your final grade will be dropped **by one letter grade per incident**.

I reserve the right to change any policies as I see fit to ensure that you are indeed receiving the best possible education that I can give you in the subject matter at hand. If I feel a certain aspect of the course does not appear to be effective in its method, I will attempt to change it (for the better I hope). All changes will be made in writing.

#### GRADES

Your final grade will be based upon the following items

- 40% - Homework - required to be handed in on a regular basis
- 20% - Quizzes - given randomly, without warning
- 20% - Final Exam - exam covering all of the material from the semester
- 20% - Class participation - interaction during class, and in projects/presentations

#### IMPORTANT DATES FOR FALL 2010

- 2010.08.16 - Classes begin
- 2010.08.20 - Last day to enroll in or add classes
- 2010.08.20 - Last day to drop a class with no grade record
- 2010.08.20 - Last day to drop a class with refund/no charges
- 2010.10.13 - Last day to drop a class with automatic W
- 2010.10.29 - Last day to complete final application for graduation
- 2010.11.12 - Last day to drop a class
- 2010.12.10 - Classes end

#### SPECIAL ACCOMMODATIONS

Any student needing special accommodations due to a disability should contact the Coordinator of Student Disability Services, Student Union, Suite 204 or call (580) 745-2254 (TDD# 745-2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator. For additional information, see the Americans with Disability Act on the Southeastern Online Learning website or <http://www.se.edu/ada/>