

COURSE INFORMATION	Location:	MTH 206
	Class Time:	MWF 9:00 – 9:50
	Instructor:	Dr. Karl Frinkle
	Office:	MTH 112
	Office Hours:	MWF 11:00 – 11:50, 13:00 – 13:50, TR 11:00 – 12:50
	E-mail:	kfrinkle@se.edu
	Website:	<a href="http://homepages.se.edu/kfrinkle">http://homepages.se.edu/kfrinkle</a>

TEXT *Introduction to Logic and to the Methodology of Deductive Sciences*,  
(new revised edition, see pdf link on website)

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

GENERAL EDUCATION GOALS AND OUTCOMES 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 WORK We will cover most, if not all, of the topics found in this text. There will be a large emphasis placed on group discussions regarding reading assignments and the corresponding homework problems.

You will be expected to read the material for each day's lecture in advance. See the *reading.pdf* document on the website for a breakdown on when we will cover specific material. By reading the material ahead of time, not only will you perform better on the reading quizzes, but you will be able to interact in an intelligent manner during class time. **Reading comprehension quizzes** over this material will be given at the beginning of class many days. In addition to reading comprehension questions, there may be problems based on material we have already covered. Quizzes count for 20% of your final grade.

**Homework** will be assigned on an almost weekly basis over and will be located on the website. The homework will be challenging and you should not wait until the last minute to start working on it. This portion of the class counts for 25% of your overall grade.

In an attempt to inspire student learning, we will have **three in-class exams**, administered approximately every four weeks. Exams will account for 30% of your final grade, and these exams should be taken seriously.

There will be a **cumulative final exam**. The final exam will be take home, and will be distributed two weeks before the scheduled final exam date. You will have two weeks to work on it, and then you are to hand it in before the given deadline. If you are even one second over the deadline, your exam will not be accepted. You will also not be able to work in groups, use the internet or use any other outside the course material, besides talking to me. The final exam will be 25% of your final grade.

**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.

Upon successful completion of this course (reading this book, digesting lectures, working through homework problems), it is hoped that you will have acquired the ability to form logical arguments, interpret logical arguments, and derive conclusions correctly from assumptions and statements using the deductive method.

In this course, the rules and methodologies of logic will be applied to the foundations of mathematics, and will hopefully give you a greater appreciation for how much the field of mathematics, and the sciences in general, relies on logic.

**GRADES** Your final grade will be based upon the following items

- 25% - Homework - required to be handed in on a regular basis
- 20% - Reading quizzes - will be given as required, at the beginning of class
- 30% - Exams - three in-class exams, given periodically throughout the semester
- 25% - Final Exam - exam covering all of the material from the semester

**POLICIES** You will not be able to make up a quiz or receive credit for any assignment which is past due 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** electronic devices must be turned off/silenced and put away before class begins. If you are caught using a cell phone or any other unsanctioned electronic device during class, your final grade will be dropped by **one letter grade per incident**.

It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor. Please be polite to your fellow student they are feeling just as much pain as you.

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.

**IMPORTANT DATES FOR SPRING 2017**

- 2017.01.09 - Classes begin
- 2017.01.13 - Last day to enroll in or add classes
- 2017.01.13 - Last day to drop a class with no grade record
- 2017.01.13 - Last day to drop a class with refund/no charges
- 2017.01.16 - Martin Luther King Jr Day (no class)
- 2017.01.22 - Faculty attendance certifications due by noon on this day
- 2017.02.06 - First EARS progress reports due
- 2017.03.01 - Assessment Testing Day
- 2017.03.06 - Second EARS progress reports due
- 2017.03.13–17 - Spring Break
- 2017.03.31 - Last day to complete final application for graduation
- 2017.04.06 - Third EARS progress reports due
- 2017.04.14 - Easter Holiday
- 2017.04.07 - Last day to drop a class
- 2017.05.05 - Semester ends
- 2017.05.06 - Commencement

UNIVERSITY AND  
SCHOOL POLICIES

**Privacy:** Available through the Southeastern Online Learning website or  
<http://www.se.edu/academics/general-information/students-rights/>

**Academic Integrity:** Available through the Southeastern Online Learning website or  
<http://www.se.edu/dept/student-life/files/handbooks/2015-2016-Student-Handbook.pdf>

There is a zero-tolerance policy concerning plagiarism and/or duplication of another individual's work. Besides making you feel horrible, you will receive a zero and the policy will be enforced under the guidelines of the Academic Honesty Policy for the University. Students are expected to work individually and turn in their own work. Any violation of academic honesty will be reported to the Office of Student Affairs. The policies regarding academic misconduct are set forth in the institution's Student Code of Responsibilities and Conduct

SPECIAL  
ACCOMMODATIONS

Any student needing special accommodations due to a disability should contact the Coordinator for Disability Services, GDJ Student Union, Suite 328 or call (580) 745-2392 (TDD# 745-2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator.

AT-RISK STUDENTS

Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745-2988 to schedule an appointment during normal working hours Monday - Friday, 8:00 AM to 5:00 PM. For after hours mental health emergencies, please call SE Campus Police at (580) 745-2911 or the Mental Health Crisis Hotline at 1-(800)-522-1090.

EQUAL  
OPPORTUNITY  
STATEMENT

In Compliance with Title VI of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and other Federal Laws and Regulations, Southeastern Oklahoma State University does not discriminate on the basis of race, color, national origin, sex, sexual identity, sexual orientation, age, religion, handicap, disability, or status as a veteran in any of its policies, practices or procedures, this includes but is not limited to admissions, employment, financial aid, and educational services.

TITLE IX OF THE  
EDUCATION  
AMENDMENTS OF  
1972

(20 U.S.C. §1681) states: "No person in the United States, shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving federal financial assistance..." Southeastern Oklahoma State University does not discriminate on the basis of sex in its education programs or activities, in compliance with Title IX and the U.S. Department of Education's regulations at 34 C.F.R. §§86.1 et seq. Individuals who believe they have been discriminated against on the basis of sex may contact S.E.'s Title IX Coordinator at (580) 745-3090, [titleix@se.edu](mailto:titleix@se.edu), or PMB 2750.