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| COURSE INFORMATION | Location: | MTH 217 |
| | Class Times: | MWF 12:00-12:50 |
| | Instructor: | Dr. Karl Frinkle |
| | Office: | MTH 112 |
| | Office Hours: | MWF 10:00 – 10:50, 13:00 – 13:50 TR 11:00 – 12:15 or by appointment |
| | Office Phone: | (580) 745 – 2028 |
| | E-mail: | kfrinkle@se.edu |
| | Website: | http://homepages.se.edu/kfrinkle |

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.

In an attempt to inspire student learning, we will have **three in-class exams**, administered approximately every four weeks. Exams will account for 60% of your final grade, and these exams should be taken seriously.

There will be a **cumulative take home final exam**, which will be distributed two weeks before the scheduled final exam date of 2018.05.07 at 14:00. The final exam will be 40% 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 of logic.

GRADES Your final grade will be based upon the following items

- 60% - Exams - three in-class exams, given periodically throughout the semester

- 40% - Final Exam - exam covering all of the material from the semester

POLICIES

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.

All cell phones and other such devices must be turned off and put away before class begins. If you are caught using a cell phone 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.

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).

IMPORTANT DATES FOR SPRING 2018

- 2018.01.16 - Classes begin
- 2018.01.22 - Last day to enroll in or add classes
- 2018.01.22 - Last day to drop a class with no grade record
- 2018.01.22 - Last day to drop a class with refund/no charges
- 2018.01.26 - Faculty attendance certifications due
- 2018.03.07 - Assessment Testing Day
- 2018.03.19–23 - Spring Break
- 2018.03.30 - Easter Holiday
- 2018.04.02 - Last day to complete final application for graduation
- 2018.04.13 - Last day to drop a class
- 2018.05.07 - Final Exam, from 14:00-16:00
- 2018.05.11 - Semester ends
- 2018.05.12 - 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.

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(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, or PMB 2750.