Instructor: Dr. Amy K. Donahue  
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Phone: 770.423.6624  
Office: Social Sciences Building, Rm. 4092  
Office Hours: Mondays and Wednesdays, 11:15am — 12:15pm, 2:15pm — 3:15pm, or by appointment. I’m very willing to meet, in person or electronically, when my schedule allows.

Course Description:  
The course is an introduction to deductive logic with a focus on the theoretical and practical aspects of categorical propositions and syllogisms, truth functional logic, the method of natural deduction, and predicate logic.

Instructor’s Note:  
Think of the subject of this class, if you’d like, as a kind of Western yoga. Essentially, you’ll learn two artificial languages, along with techniques that will help you to discipline your judgments about certain basic, and practically and philosophically often vital, logical properties. As with (other) language classes, regular attendance and routine, frequently copious, homework are mandatory. The course is lecture and exercise based.

Learning Objectives:  
• Students will learn to represent sentences, sets of sentences, and arguments in two languages of first-order symbolic logic — a sentential language, which takes sentences as its basic units of analysis, and a predicate language, which takes predicates and names as its basic units.  
• Students will learn to test symbolic representations of sentences, sets of sentences, and arguments for logical truth, falsity, indeterminacy, consistency, inconsistency, equivalence, non-equivalence, validity, and invalidity.  
• Students will learn techniques that are semantic, and proceed from “naturally intuitive” assumptions about possible truth values, and techniques that are syntactic, and proceed from “naturally intuitive” assumptions about truth-preserving relations between units of analysis.  
• Students will develop and demonstrate ability to symbolize logical elements of natural languages, to conduct semantic tests in a sentential language, and to conduct derivations in sentential and predicate languages, including basic derivations involving multiple quantifiers.

Required Reading:
Attendance Policy:
Attendance is mandatory. Students are required to provide a reasonable, documentable explanation for class absences. After three unexcused absences, students lose a full letter from their class participation grade with each additional unexcused absence.

Electronic Devices Policy:
The volume on all electronic devices should be turned off in class. Students are welcome to use laptops and smart phones to take notes in class and to look up material relevant to class discussions. However, texting, chatting, or unrelated web-surfing during class will negatively affect students’ class participation grades.

Course Assessments/Assignments:

Grading:
Your final grade will be based on 3 exams (20% each), homework (21%), pop quizzes (10%), and class participation (9%).

Exams: The examinations will be non-cumulative. The first will cover chapters 1 through 3. The second will cover chapter 7. And the third will cover chapters 5 and 10.

Homework: Homework will be assigned almost every day. Expect this work to be time consuming. The assignments will be divided into three batches (HW-I, HW-II, and HW-III) corresponding to the 3 examinations. Each batch will be worth 7 per cent of your final grade. Individual homework assignments should be turned in during the class after they are assigned, however students may make up these assignments so long as they submit them by the due date for the relevant batch. To receive any credit for a batch, all assignments in that batch must be turned in and satisfactorily completed by the due date for that batch (for example, you will not get 3.5% final credit for handing in half of the assignments). Batches are due during the review session immediately preceding the corresponding examination.

Pop Quizzes: These short, unannounced quizzes test basic skills and knowledge, and are intended to motivate class preparation. Pop quizzes cannot be made up.

Class participation: Good (i.e., “B”-level) participation in class requires consistent and on-time attendance, consistent in-class attentiveness, and consistently appropriate engagement within
class — e.g., asking appropriate questions, responding appropriately to instructor and student questions, working constructively in group exercises, and treating fellow class participants with respect and courtesy.

**Grading Scale:**
A — 90-100  
B — 80-89  
C — 70-79  
D — 60-69  
F — <60  
I—Indicates an incomplete grade for the course, and will be awarded only when a student has done satisfactory work up to the last two weeks of the semester, but for nonacademic reasons beyond their control is unable to meet the full requirements of the course. Incomplete grades are only valid after submission of the Incomplete Grade form (signed by both the instructor and student) to the Department Chair’s office.

**Academic Honesty:**
The high quality of education at Kennesaw State University is reflected in the credits and degrees its students earn. The protection of high standards of academic integrity is crucial since the validity and equity of the University's grades and degrees depend upon it.

No student shall receive, attempt to receive, knowingly give or attempt to give unauthorized assistance in the preparation of any work required to be submitted for credit (including examinations, laboratory reports, essays, themes, term papers, etc.). Unless specifically authorized, the presence and/or use of electronic devices during an examination, quiz, or other class assignment is considered cheating. Engaging in any behavior which a professor prohibits as academic misconduct in the syllabus or in class discussion is cheating. When direct quotations are used, they should be indicated, and when the ideas, theories, data, figures, graphs, programs, electronic based information or illustrations of someone other than the student are incorporated into a paper or used in a project, they should be duly acknowledged. No student may submit the same, or substantially the same, paper or other assignment for credit in more than one class without the prior permission of the current professor(s).

Students suspected of violating the KSU statement of Academic Honesty will meet with the instructor to discuss the violation AND will be reported to the Department of Student Conduct according to the process outlined at the following link: [https://web.kennesaw.edu/scai/content/scai-misconduct-procedures](https://web.kennesaw.edu/scai/content/scai-misconduct-procedures)

**ADA Compliance:**
The Americans with Disabilities Act (ADA), Public Law 101-336, gives civil rights protections to individuals with disabilities. This statute guarantees equal opportunity for this protected group in the areas of public accommodations, employment, transportation, state and local government services and telecommunications.

Should you require assistance or have further questions about the ADA, please contact: Ms. Nastassia Sanabria, ADA Compliance Officer for Students 770-423-6443.
Tentative Class Calendar (Subject to Change)

**Week 1:**
*Chapter 1: Basic Notions of Logic* (pp. 1-14)
Aug 19, 21

**Week 2**
*Chapter 2: Syntax and Symbolization* (pp. 15-68)
Aug 26, 28

**Week 3**
*Chapter 2 (Cont.)*
Sept 4 (*No class 9/2*)

**Week 4**
*Chapter 3: Sentential Logic: Semantics* (pp. 69-109)
Sept 9, 11

**Week 5**
*Chapter 3 (Cont.)*
Sept 16, 18

**Week 6**
*Review and Examination #1*
*Review 1: 9/23; Exam 1: 9/25*

**Week 7**
*Chapter 7.1 — 7.3: Predicate Logic Syntax and Symbolization* (pp. 262-296)
Sept 30, Oct 2

**Week 8**
*Chapter 7.4 — 7.8: Predicate Logic Syntax and Symbolization Techniques* (pp. 296-328)
Oct 7, 9 (*Fri. 11: Deadline to Withdraw w/out Academic Penalty*)

**Week 9**
*Chapter 7.4 — 7.8 (Cont.)*
Oct 14, 16

**Week 10**
*Review and Examination #2*  
Oct 21, 23 (*Review 2: 10/21; Exam 2: 10/23*)

**Week 11**
*Chapter 5.1: The Derivation System SD* (pp. 146-174)
Oct 28, 30

**Week 12**
*Chapter 5.2 — 5.3: Uses and Strategies of SD Derivations* (pp. 175-214)
Nov 4, 6

**Week 13**
*Chapter 5.4: The Derivation System SD+* (pp. 214-225)
Nov 11, 13

**Week 14**
*Chapter 10.1 — 10.2: Predicate Logic: Derivations* (pp. 474-521)
Nov 18, 20

**Week 15**
*Chapter 10.1 — 10.2: Predicate Logic: Derivations* (pp. 474-521)
Nov 27 (*No class 11/27*)

**Week 16**
*Chapter 10.3 — 10.4: Introduction to PD+ and Review* (pp. 521-543)
Dec 2, 4 (*Review 3 & Last Class: 12/4*)

**Examination #3**
The third exam will be held during the final exam period.