Instructor: Dr. Amy K. Donahue
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Phone: 470.578.6624
Office: Social Sciences Building, Rm. 4092
Office Hours: Tuesdays and Thursdays, 12:30pm — 1:45pm, or by appointment. I’m happy 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:
You will learn two symbolic languages and formal techniques that will help you to discipline your judgments about logical properties. The content and techniques taught in this course may at times seem unduly rigid and abstract, but the ability to note recurring patterns of reasoning across contexts and to discipline how one evaluates truth claims irrespective of subject or rhetorical style can be of considerable (albeit limited) use in philosophy and elsewhere. As with any language and exercise classes, attendance and strenuous daily work are mandatory.

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 (allegedly) naturally intuitive assumptions about possible truth values, and techniques that are syntactic, and proceed from (allegedly) naturally intuitive assumptions about truth-preserving relations between units of analysis.
• Students will develop and demonstrate the ability to symbolize logical elements of natural languages, to conduct semantic tests in an artificial sentential language, and to conduct derivations in artificial sentential and predicate languages, including basic derivations involving multiple quantifiers.
• Students will learn to apply the formal techniques studied in the course in academic writing.
Required Reading:
ISBN: 0078038413
The Student Solutions Manual for this edition of *The Logic Book* (uploaded to D2L).

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 are 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 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:**

Every KSU student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Section 5. C of the Student Code of Conduct addresses the university’s policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to university materials, misrepresentation/falsification of university records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the Department of Student Conduct and Academic Integrity (SCAI), which includes either an “informal” resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct’s minimum one semester suspension requirement. See also https://web.kennesaw.edu/scai/content/ksu-student-code-conduct.

The instructor has a zero-tolerance policy regarding cheating. **At a minimum,** students who cheat on **any part of an exam** will receive an F on that exam, in accord with KSU’s academic misconduct procedures.

**ADA Compliance:**

Students with qualifying disabilities under the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act who require “reasonable accommodation(s)” to complete the course may request those from Department of Student Success Services. Students requiring such accommodations are required to work with the University’s Department of Student Success Services rather than engaging in this discussion with individual faculty members or academic departments. If, after reviewing the course syllabus, a student anticipates or should have anticipated a need for accommodation, he or she must submit documentation requesting an accommodation and permitting time for a determination prior to submitting assignments or taking course quizzes or exams. Students may not request retroactive accommodation for needs that were or should have been foreseeable. Students should contact the office as soon as possible in the term for which they are seeking accommodations. For more information please visit their website, sss.kennesaw.edu/sds.

Contact information is as follows:
SDS Email: sds@kennesaw.edu
Primary number for Kennesaw campus: 470-578-2666
Primary number for Marietta campus: 678-915-7244
Week 1:
Chapter 1: Basic Notions of Logic
Jan 12, 14

Week 2
Chapter 2: Sentential Logic — Syntax and Symbolization
Jan 19, 21

Week 3
Chapter 2 (Cont.)
Jan 26, 28

Week 4
Chapter 3: Sentential Logic — Semantics
Feb 2, 4

Week 5
Chapter 3 (Cont.)
Feb 9, 11

Week 6
Review and Examination #1
Review 1: 2/16; Exam 1: 2/18

Week 7
Chapter 7: Predicate Logic — Symbolization and Syntax
Feb 23, 25

Week 8
Chapter 7 (Cont.)
Mar 1, 3 (3/2: Deadline to Withdraw w/out Academic Penalty)

Week 9
Chapter 7 (Cont.)
Mar 8, 10

Week 10
Review and Examination #2
Review 2: 3/15; Exam 2: 3/17

Week 11
Chapter 5: Sentential Logic — Derivations
Mar 22, 24

Week 12
Chapter 5 (Cont.)
Mar 29, 31

Week 13
Spring Break: no classes

Week 14
Chapter 10: Predicate Logic — Derivations
Apr 12, 14

Week 15
Chapter 10 (Cont.)
Apr 19, 21

Week 16
Review and Last Class
Apr 26, 28 (Last class)

Examination #3
The third exam will be held during the final exam period: Thursday, May 5: 10:30am — 12:30pm.