Deductive Systems
PHIL 346
Tuesday 9-12:10 pm (hybrid)
Tina Wood

Telephone: 202-288-9529   **Classroom:** PAHB 107
Email: orchidlogic@verizon.net   **Office:** PAHB 468
Office Hours: By Appointment

Book: <u>A Concise Introduction to Logic,</u> by Patrick Hurley (12th Edition) (in the bookstore)

> You can find the online platform materials that go with the book, in Mindtap, by following the relevant links in Blackboard under the Assignments Tab. These materials include quizzes, videos and study examples for each section. You will need to register your book with Mindtap to access these. Instructions for doing this are under "Start Here", in Blackboard.

Course Description and Goals:

> This course introduces students to formal deductive logic. The goal of the course is to teach you to think logically by learning the formal rules of deductive logic. You will be learning basic logical concepts, how to evaluate logical arguments, how to translate natural language using logical notation, how to construct truth tables, and how to construct logical proofs in both propositional and predicate logic systems. There will be no discussion of informal fallacies or inductive logic, as these are covered in other courses in the department. This course provides essential background for Philosophy majors. It is also helpful for any student wanting to develop their logical thinking skills. Many students also find it helpful in preparing for standardized tests, such as the LSAT.

> Since this is a Hybrid Course, there will be significant work to be done <u>at home and on-line</u>. This work is required and is intended to help prepare you for the Face-to-Face class time. I will not be able to discuss everything in class. Therefore, you are expected to come to each Face-to-Face meeting with some understanding of the material. The textbook is fairly clear, and there will be homework and on-line quizzes to help guide you through the material. You **<u>must</u>** do the reading, complete the homework, and take the on-line quizzes at the assigned time.

Assignments and Grades:

In-Class Exams:

Exam I:	20% of Final Grade
Exam II:	25% of Final Grade
Exam III:	25% of Final Grade

Unless you have a very good excuse (serious illness, death in the family, etc.), late exams will be graded down 1/3 of a letter grade for each day late. For example, if your work earns an A-, but you take the exam 1 day late, you will receive a B+.

On-Line Quizzes: **Total 30**% of Final Grade

- There will be required on-line quizzes that you must take over the course of the semester.
- Your lowest **2** on-line quiz grades will be dropped. If you miss a quiz, and therefore get a zero for that quiz, this can count as one of your dropped quizzes.
- The on-line quizzes must be taken by the due dates in order to receive credit; the quizzes **CANNOT** be taken late, except under serious extenuating circumstances, such as if you are hospitalized. The quizzes will no longer be visible after the due date.
- The quizzes are intended to help you learn the material. However, they cannot help you learn the material if they are not completed.
- The quizzes should be done <u>after</u> the assigned reading and study questions are completed.
- The quizzes can be found on the Blackboard site under the Assignments Tab. You will also find the study questions for each chapter here.

Study Questions and Exercises:

There are also many questions for each of the chapters, along with assigned exercises from the book. These can be found in the Assignments tab on the Blackboard site inside the folder for each chapter. These are intended to be used as you go through the reading. These outline which pages you should read and what questions you ought to be able to answer based on the reading. Answering these questions and completing the assigned exercises should help you prepare for the associated quizzes and exams. The goal of the study questions and the associated quizzes is to help you prepare for class, as well as for the in-class exams. The quizzes are by and large multiple choice, but the in class exams are not. These study questions will not be turned in or graded. However, **<u>you will not do well in the course if you do not</u>**

complete these. This is a hybrid course, and these study questions are intended to guide you through the material on your own, since we will not have time to discuss all the material in class.

Student Integrity:

By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include suspension or dismissal. To read the full policy on academic integrity, consult the UMBC Student Handbook, Faculty Handbook, or the UMBC Policies section of the UMBC Directory.

Class and Quiz Schedule: **(**Tentative and Flexible)

Class 1:

1. Go Over Syllabus
2. Chapter 1 (1.1-1.4)
3. Begin Chapter 6 : Translations (6.1 & 6.2)

    2 Quizzes to be assigned and completed within the given time frame

Class 2:

1. Finish Chapter 6: Truth Tables (6.3-6.5)

2. Begin Chapter 7: Rules of Implication (7.1 & 7.2)

    2 Quizzes to be assigned

Class 3:

1. Chapter 7: 7.3 and 7.4

2. **Exam 1: Chapters 1 and 6 (1 hour)**

    2 Quizzes to be assigned

Class 4:

1. Chapter 7 : 7.5 -7.7

2. Chapter 8: 8.1

   2 Quizzes to be announced

Class 5:

1. Chapter 8: 8.2- 8.4; 8.6

2. Answer Questions (30 minutes)

3. **Exam 2**: Chapter 7

2 Quizzes to be Announced

Class 6

1. Chapter 8: 8.7

2. **Exam 3: Chapter 8 (minus 8.7)**

2 Quizzes on 8.7 to be announced