



Phil 2303 Logic  
Tim Cowan  
Lone Star College System  
Montgomery Campus

## **Syllabus**

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### **Course description**

The purpose of the course is to introduce the student to symbolic logic, including syllogisms, propositional and predicate logic, and logical proofs in a system of rule

CREDIT: 3 hours

PREREQUISITES: MATH 0305, ENGL 0305 or ENGL 0307(etc...)

### **Text**

Patrick, J. Hurley. A Concise Introduction to Logic, 11<sup>th</sup> Edition.

### **Course Structure**

Each class will consist of discussion and analysis of readings, lectures by the instructor, and collaborative work.

### **Attendance**

More than six absences will require you to go to registration and withdraw from the class. In the case of an absence, it is your responsibility to try and catch up, e.g. contacting a fellow student or the instructor for missed handouts, notes, and assignments. In class assignments cannot be made up.

### **Participation**

Participation is crucial for success in this class. If a student is not in class he/she cannot participate, therefore absences, tardiness, and leaving class early *will* have a negative on effect your grade. Class participation is strongly encouraged and will be rewarded.

### **Grading**

Grades are based on four exams, homework assignments, in-class assignments, and class participation. The weight of your grade will break down as follows.

Each exam will account for 20% of your final grade. Homework and quizzes will account for 10% of your final grade. In-class assignments will account for the last 10% of your final grade.

Homework and in-class assignments **cannot** be made up, and will not be accepted if they are late.

Exams cannot be made up without a documented adequate excuse.

Keep track of your grade, and meet with me to make sure our records are consistent. If a discrepancy should arise take care of it immediately, by bringing it to my attention.

If at any time you feel overwhelmed don't wait to address the issue, ask for help as soon as you feel you need it.

The course grade will be assigned according to the following scale:

(90-100 = A) (80-89 = B) (70-79 = C) (60-69 = D) (Below 60 = F)

### **Withdrawals**

To withdraw from the course, students must initiate an official withdrawal in person through the campus drop/add procedure. Check the schedule for posted dates. Students who do not complete the class but do not officially withdraw will receive an "F".

This link to the Lonestar website provides dates for the last day you can drop a class.  
[www.lonestar.edu/schedule/](http://www.lonestar.edu/schedule/)

### **Class Cancellations**

If the instructor is not present fifteen minutes after class is scheduled to begin, the class is cancelled for the day.

### **ADA Statement**

If you require reasonable accommodations because of a physical, mental, or learning disability, please notify the instructor of the course within the first two weeks of class.

### **Counseling**

If you find yourself in any kind of personal 'distress' during the semester, please see the BELS Division counselors Angela Martin (273-7070, building G office 120G), or Rachel Phelps (271-6157, building G office 220C). They offer personal, academic, and career counseling and can put you in touch with other helpful campus resources. The following link may also serve as a guide for success at the college level (<http://montgomery.lonestar.edu/109003/>).

### **Statement of Student Responsibilities**

In order to promote an acceptable learning environment, students enrolled at LoneStar Community College are expected to conduct themselves as responsible individuals. No student shall behave in a manner, which, in the opinion of the instructor endangers the rights and/or safety of other students or staff.

1. Students are expected to be in class on time and to remain until the class session is completed, except in emergencies or illness (which can be documented). No student shall leave or re-enter a classroom during class except for emergencies or illness, or engage in any other disruptive classroom behavior. Disruptive classroom behavior includes coming in late, sleeping, cell phones, and laptops not intended for classroom purposes (engaging in any of the aforementioned will result in being marked absent for the day, as well as the removal of all extra credit possibilities).

2. No student shall engage in behavior, which, in the judgment of the instructor of the class may be construed as cheating. This may include, but is not limited to, plagiarism or other forms of academic dishonesty such as the acquisition (without permission) of tests or other academic material and/or distribution of the same. This includes students who assist or attempt such behavior.

3. No student shall engage in harassment of another student or staff member of the college. This shall include, but not be limited to sexual or racial harassment, and may include verbal and/or physical action.

4. No student shall threaten or commit a physical or verbal attack on faculty, staff, or another student.

Failure to adhere to any of these responsibilities will result in disciplinary action according to the disciplinary policy presented in the LoneStar College Systems catalogue.

### **Learning Outcomes**

1. Determine the logical structure of English arguments by identifying premises and conclusions.

2. Understand basic concepts in logic, such as truth functionality, validity, soundness, counter-examples, tautology, self-contradiction, logical equivalence, logical contradictoriness, and logical consistence.

3. Translate English statements into propositional and/or predicate notation.

4. Determine the validity of symbolic propositional or predicate arguments using such methods as direct/indirect truth tables, natural deduction, and/or the finite universe method.

PHIL 2303 Intro to Logic  
Tim Cowan, Instructor

The following is a tentative schedule, which is subject to change at the instructor's say so and sanction.

Week	Topic	Assignments
1	What is logic?	1.1 - 1.2
2	Recognizing arguments	1.3 - 1.5
3	The medium of language - meaning	2.1 - 2.3
4	The medium of language - definitions → <u>Exam #1</u>	2.4 - 2.5
5	Fallacies of Relevance	3.2
6	Fallacies of Weak Induction	3.3
7	Fallacies of Presumption, Ambiguity, and Grammatical Analogy	3.4
8	<u>Exam #2</u> Intro to formal Logic	1 <sup>st</sup> extra credit due 4.1 - 4.2
9	Rules of inference	4.3 - 4.5
10	Venn diagrams and the Traditional Standpoint	4.6 - 4.7
11	<u>Exam #3</u> Formal Logic Continued	5.1 - 5.2
12	Categorical Syllogisms	2 <sup>nd</sup> extra credit due 5.3 - 5.4
13	Categorical Syllogisms and Enthymemes	5.5 - 5.6
14	Propositional Logic	6.1 - 6.3
15	Propositional Logic	Study
16	<u>Exam #4</u>	

\*Extra credit assignments and weight vary from semester to semester;  
they will be detailed as the class progresses.