

PHIL 2352-01: Introduction to Contemporary Logic

Sam Houston State University
Summer 2026 | CRN: 43229
SHSU Online

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Course Description: Students explore the principles of ordered thought and the terminology and rules of symbolic logic. Further, students examine the logic of statements and the logic of predicates, qualifiers, and identity.

Course Modality (Online): This is designed as a fully online class delivered through SHSU Online. Content delivery will be asynchronous and remote, and all assignments will be completed and graded through the Blackboard system. There will be occasional course meetings scheduled for class review (especially before major assignments are due) but attendance in these will be optional, and recordings will be available for those who are not able to join.

Accelerated Schedule: This is a summer class which is taught on an accelerated 10-week schedule. It is designed to cover the same material a regular semester over a shorter time frame. Please prepare accordingly, as you will be expected to complete major assignments in a weekly fashion.

Prerequisites: N/A

Textbook: No textbook is required for the course. All reading and additional course materials will be available through [Blackboard](#).

Course Objectives and Learning Outcomes:

1. Identify inductive and deductive arguments - The student will come to understand the common patterns of inductive and deductive reasoning, and be able to identify type and quality of arguments.
2. Assess the relationship between symbolic notation and natural language - The student will come to understand the way that propositions can be expressed in symbolic form, and the connection between language and logic.
3. Construct formal proofs - The student will learn to demonstrate, by series of gap-free valid inferences, that a set of premises leads to a specific conclusion.
4. Evaluate the validity of arguments - The student will come to understand the relationship between premises and conclusions.

Skill Objectives:

1. *Critical Thinking Skills:* This course will emphasize basic aspects of critical thinking by giving students consistent practice in systematic, structured thinking wherein each step of inference is assessed for its validity. Also, the practice of translating ordinary language statements into symbolic language of necessity compels giving careful attention to determining what exactly the statements express, another basic critical thinking skill. In addition, the critical thinking skill of being able to distinguish valid patterns of inference such as *modus tollens* (denying the consequent) and non-valid patterns such as affirming the consequent is an integral feature of the course.
2. *Communication Skills:* Communication skills will be reinforced with practice since students will regularly be doing homework problems that require written responses. Also students will routinely be called upon to present their responses to the class, orally on some occasions and, on other occasions, visually with diagrams on the board.
3. *Empirical and Quantitative Skills:* In the inductive logic portion of the course empirical and quantitative skills will be emphasized as students become familiar with the logic of hypothesis testing, in particular the need to present falsifiable hypotheses, and as they practice applying basic concepts of sampling, experimental design, and probability to situations that model real world circumstances.

Course Outline: The course content will begin with understanding arguments and understanding the basic tools of propositional calculus, through the syntax of propositional logic, and culminate in the semantic features of truth-functional expressions.

May 28 – 29	Course Orientation; History of Logic
May 30 – June 5	Arguments: Inductive and Deductive
June 6 – 12	Well-Formed Formulae and Sequents; Exam #1
June 13 – 19	Conjunction (&I, &E); Conditionals and Modus Ponens
June 20 – 26	Conditional Proof and Biconditionals; Exam #2
June 27 – July 3	Modus Tollens and Double Negation
July 4 – 10	Disjunctions (vI, vE)
July 11 – 17	Reductio Ad Absurdum; Exam #3
July 18 – 24	Semantics and Truth-Tables
July 25 – 29	Truth Tables and Deductive Validity; Exam #4
July 30th	Final Exam (Exam #5)

Important Dates:

First Day of Classes	Thursday May 28th
Add/Drop Deadline	Friday June 10th
Q-Drop Deadline	Wednesday, July 8th
Course Final	Thursday July 30th (by 11:59 PM)

Weekly Assignments: There will be an assignment due every Friday at midnight throughout the course. After the submission is graded, you will have an opportunity to correct your work and resubmit as many times as you would like within two weeks of the original due date. No assignments will be accepted for credit after the re-submission window closes.

Exams: In addition, there will be five exams given throughout the course, which includes the cumulative final exam. Each exam (except for the cumulative final) will cover around 2 to 3 Units each. Each exam will open after the re-submission window for that group of assignments closes, and will remain open for at least five calendar days. The best four of five exams will be counted into calculating your final grade. There will be NO “make-up” opportunities on the exams.

More information on each of the types of assignments will be available under a separate “Assignment Guidelines” sheet, posted on Blackboard.

The following weighting will be used to calculate your grade:

Exams (best 4 of 5): 4 x 20% ea.	= 80%
Weekly Assignments (14 total)	= 20%

Your rounded average of these assignments will determine your grade, based on the following scale:

A	100% - 89.5%
B	89.4% - 79.5%
C	79.4% - 69.5%
D	69.4% - 59.5%
F	59.4% - 0%

Academic Dishonesty: Students are expected to maintain honesty and integrity in the academic experiences both in and out of the classroom. Please be aware that plagiarized work and any form of academic dishonesty will result in an “F” on the assignment. [SHSU Academic Policy Statement 810213](#) outlines the definition of academic honesty and the related disciplinary procedures.

You should also familiarize yourself with [Academic Policy Statement 900823](#), which outlines the procedures for students to file an academic grievance should you wish to appeal your grade for reasons other than academic dishonesty. Please read over these policies.

Course Evaluations: In accordance with University policy every student will have an opportunity at a specified date and time near the end of the semester to complete a course evaluation form from the IDEA course evaluation system.

Artificial Intelligence in the Classroom: Students submitting work entirely or substantially generated through AI is unethical and a mix of plagiarism, collusion, and abuse of academic resources. Doing so will result in a violation of the Academic Integrity Policy.

Pregnant and Parenting Students: Pregnant and parenting students fall under Title IX equal educational opportunities that “prohibits educational institutions from discriminating against students based on pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions.” Resources are available on the [SHSU Pregnancy & Parenting](#) page.

Student-provided Technological Devices Policy: Students are responsible for having access to the necessary technology for coursework, including a reliable computer, internet connection, and required software. Some courses may have additional technology requirements. Lack of access will not excuse missed work. Students must have reliable access to a computer (Windows 10/macOS 11 or later), a stable internet connection, and a supported web browser (Chrome, Firefox, Edge, or Safari). Tablets and mobile devices may not provide full functionality for some coursework. Access to Blackboard is essential, along with productivity software like Microsoft Office 365. Online and hybrid courses may require a webcam, microphone, and video conferencing tools (Zoom, Microsoft Teams). Some assessments may use online proctoring software (Respondus Lockdown Browser).

Student-Provided Technological Devices: Students are responsible for ensuring that their personal technological devices (e.g., laptops, tablets, mobile devices) meet the necessary hardware and software requirements for participation in this course. Failure to maintain a functional device will not be accepted as a valid excuse for incomplete coursework, missed deadlines, or inability to participate in course activities. SHSU Online and the university's IT department provide limited technical support for personal devices.

For University policies on Student Absences on Religious Holy Days, Students with Disabilities, and Visitors in the Classroom you may view the official statements on the SHSU Website, <http://www.shsu.edu/syllabus/>

Expectations, Suggestions and Mandates for an efficient class:

1. Mastering logic requires practice. As we spend more time doing the deductions, for example, you'll find yourself getting better at it. Don't get frustrated; if you can't finish a problem, move on and come back with "fresh eyes."
2. Try to complete the week's work early. Waiting until the due date to begin the week's assignment is not advisable. Some of the assignments may take several hours to complete.
3. Especially true in philosophy more than most other subjects, diligence is important. Some of the reading will be difficult since we are looking at some of the most profound ideas in the history of the world. The difficulty of the subject is indirectly proportional to the amount of work put into the course.
4. Expect to have up to five hours a week of reading and practice each week in order to earn an "A" for the course. Additionally, for these reasons, active participation in the course—which includes reading the assigned texts and watching the corresponding lecture videos—is of vital importance. *If you do not regularly log in or keep up with the reading and exercises, do not expect to pass this class!*
5. Please feel free to make mistakes. We all will from time to time—including your omniscient instructor.
6. Please feel free to make an appointment to discuss the material you do not understand. Waiting until the last moment in the semester to catch up is not advisable. I am excellent at fixing small problems, but horrendous at fixing large ones. The only difference between small and large problems is time.
7. Have fun! The material is only as dry as you make it out to be. Sharpening one's mind can be an exhilarating process.