

COURSE SYLLABUS  
Philosophy 10: *Introduction to Logic*  
Summer Session I, 2005: MW 5-7:50, CENTER 214

COURSE DESCRIPTION: This introductory course in philosophy deals with the most basic currency of rational discourse: *arguments*. An argument, as we will use the term, is not a heated debate. It's a piece of reasoning designed to convince someone to see the world a certain way. As such, arguments are made all the time, not just in philosophy. Why was that movie so great or so awful? Why should I vote for this candidate and not for that one? In this course, we will discuss what an argument is, what makes an argument good (or bad), how to construct and test for good arguments, and how to see through bad ones. The course will be divided into three sections: (1) formal properties of arguments, (2) proofs, and (3) informal fallacies.

REQUIRED TEXT: *Basic Sentential Logic and Informal Fallacies* by Rick Grush. (Available at the UCSD Bookstore.)

INSTRUCTOR: Aaron Schiller, aaschiller@ucsd.edu. Office Hours: M 4-5 or by appointment, 8088 HSS.

TEACHING ASSISTANT: Cory Wright, sarahbellum@mad.scientist.com, Office Hours: TBA

GRADING: The final course grade is determined by points obtained on the two midterms and a comprehensive final exam. The point breakdown is as follows:

First Midterm = 25%	(250 max. points)
Second Midterm = 25%	(250 max. points)
Final Exam = 50%	(500 max. points)

Cory is responsible for the course grading. Please direct your questions about grading to Cory first.

EXAMS: Exams will be a combination of multiple choice and short answer, just like the problem sets in the book. Blue books will not be provided to you, so please bring your own. No makeup exams will be administered. If you miss a midterm, you can arrange for your final to count for 75% of your final grade. You cannot miss both midterms, however, and still pass the class regardless of your performance on the final.

SECTION: Cory will run discussion sections on Wednesdays from 4-5 in our classroom (CENTER 214). *You are encouraged but not required to attend.* The sections offer you a chance to go over problem sets and discuss course material in a less formal setting.

DOING WELL IN LOGIC: Learning logic is a bit like learning a second language or a new set of mathematical techniques; it's a skill and not just another set of facts to memorize. As with any skill, the key to mastering logic is to practice it regularly. Thus even though

homework will not be assigned, you are encouraged to work through the problem sets at the end of the textbook. The relevant problem sets for each meeting are identified below (see *PSs*). Answers to the problem sets will be provided and discussed in section. Additional problems can be found at <http://courses.ucsd.edu/rgrush/logic/>.

**ON ACADEMIC HONESTY:** The academic senate has a strict policy on cheating and they urge instructors to include the following information on their syllabi: Any student caught cheating on the Midterms or Final will face the minimum consequence of being reported to the Dean of that student's college as having violated UCSD's standards of academic honesty. Further consequences could include failure in this course or worse. I therefore strongly advise you not to cheat in this or any other course. Cheating in this course is hereby defined as the unauthorized use of crib sheets, electronic calculators, cell phones, etc., during an exam. You will be asked to place your course materials, notes, and electronic devices out of sight and easy reach of you and others during the exam. Use of any of the above during an exam or failure to follow these policies will be considered cheating and will be reported as per the policy of the academic senate. For more on academic honesty see the UCSD Policy on Integrity of Scholarship at <http://www-senate.ucsd.edu/manual/appendices/app2.htm#AP14>.

#### MEETINGS:

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|-----|------|---|
| M   | 6/27 | Introduction, Statements as Truth Bearers, Logical Connectives [Introduction, §1.1]   |
| W   | 6/29 | Validity and Soundness, Truth Tables [§§1.2 – 2.1] <i>PS1</i>   |
| T   | 7/4  | Truth Tables, Relations Between Statements, Testing for Validity [§§2.2 – 2.5] <i>PS2, PS3</i>  |
| W   | 7/6  | First half: <b>First Midterm</b> (Covers the material from the lectures of 6/27 – 7/4.)<br>Second half: Introduction to Proof Method, The Rules of Implication [§3.1] |
| M   | 7/11 | The Rules of Equivalence, Practicing Proofs [§3.2] <i>PS4</i>   |
| W   | 7/13 | Indirect and Conditional Proofs [§§3.3 – 3.4] <i>PS5</i>  |
| M   | 7/18 | Tautologies, Proof Strategies, Practicing Proofs [§3.5] <i>PS6</i>  |
| W   | 7/20 | First half: <b>Second Midterm</b> (Covers the material from the lectures of 7/6 – 7/18.)<br>Second half: Introduction to Informal Fallacies [§§4.1 – 4.6]             |
| M   | 7/25 | Informal Fallacies [§§5.1 – 5.7] <i>PS7</i>   |
| W   | 7/27 | Informal Fallacies and Course Review [§§6.1 – 6.4] <i>PS8</i>   |
| Sat | 7/30 | <b>Final</b> (Comprehensive exam covers <i>all</i> the course material.)  |

#### IMPORTANT SUMMER SESSION I DEADLINES:

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|---|------|---|
| F | 7/1  | Last day to drop course and receive a full refund                 |
| M | 7/8  | Last day to change grading option or drop without receiving a “W” |
| T | 7/26 | Last day to drop  |