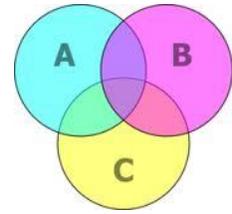


# Philosophy 120 Introduction to Logic

**Dr. Araceli Peñafuerte Neuner SDSU Spring 2016/ #22572**

*We shall try to abide by the conditions set forth in this syllabus; however, we reserve the right to make changes as needed to ensure that we fulfill our course objectives. You will be given fair notice about such changes.*



## COURSE INFORMATION

Class Days: Monday and Wednesday

Class Times: 10:00-10:50 am

Class Location: Com-207

Class Email: [SDSU.Phil.120@gmail.com](mailto:SDSU.Phil.120@gmail.com)

Office Hours Times: Monday 1-2:00 pm

and Tuesday 11:00 am-1:00 pm

Office Hours Location: Arts and Letters 444

aneuner@att.net or aneuner1@mail.sdsu.edu

## COURSE OVERVIEW

This course is designed to teach students how to distinguish correct from faulty reasoning. Philosophy 120 is a lower division Foundations of Learning course which satisfies The Mathematics and Quantitative Reasoning general education requirement. Logic provides us with the principles for identifying the common fallacies in our thinking and can equip us with the formal tools for analyzing and critically evaluating arguments. During this course students will be asked to do some or all of the following:

- a) distinguish arguments from non-arguments
- b) distinguish deductive arguments from inductive arguments
- c) identify the premises and conclusion of arguments
- d) identify types of informal fallacies
- e) test arguments for validity using Venn diagrams or truth tables
- f) distinguish necessary and sufficient conditions
- g) translate sentences into propositional logic
- h) apply the techniques of natural deduction to proving arguments

## ENROLLMENT OVERVIEW

- Prerequisites: Satisfaction of the Entry-Level Mathematics requirement
- Deadline to add, drop or change grading basis: **Tuesday, Feb 2, (11:59 pm)**

## COURSE MATERIALS

- Required Book: *Logic and Critical Thinking Workbook* (only available at SDSU bookstore)
- On Reserve: A copy of this reader will be available at SDSU Library Circulation/Course Reserves.
- For exams, each student will need four green scantrons (#882) for the semester.

## SUCCESS IN A HYBRID COURSE

This hybrid course offers the advantage of two class meetings during the week (Mon and Wed) with a third meeting held online. This third meeting will consist of a prerecorded lecture available through blackboard and/or online homework assignments. Students will typically be given a window of at least

three days to complete online homework problems. To succeed in this hybrid course, students should attend Monday and Wednesday lectures as well as meet the following requirements:

- A computer - PC or Macintosh- with a stable Internet connection. Higher speed Internet connections (cable modem, DSL) are strongly recommended.
- Basic computer skills - email, surf the Internet, and create basic word processor files.
- Microsoft Office 2010, or higher (Must include Word and PowerPoint).
- Complete readings and assignments by the dates indicated on the syllabus.
- Check email on a daily basis.
- A "technology back-up" plan. Students should plan out an alternative location to do assignments and quizzes in the event their computer or Internet connection is not working! Students may utilize the computers in the [Library Computing Center](http://scc.sdsu.edu/home.php) at (<http://scc.sdsu.edu/home.php>); call 619-594-3189; or email [scc@rohan.sdsu.edu](mailto:scc@rohan.sdsu.edu).

## COURSE ASSIGNMENTS

Course Grades will be determined by

- **FOUR EXAMS: Each exam is worth 100 points. Total = 400 points**  
Four out of five exams will count (Exam 1, 2, 3, 4 and the final). Thus, each of the four exams is weighted as 20% of a student's course grade. If students take all five exams, then the lowest exam score will automatically be dropped. Students may omit taking one of the five exams. Most exams (except for the final exam) will test you on material covered since the last major exam. Exams will usually be closed-notes and closed-book. Exams will take place in class on the date indicated on the course syllabus. Please see Course Schedule Table for these exam dates. Exam dates are fixed, but the content tested may change depending on time constraints. Please bring a green scantron #882 and a no. 2 pencil to an exam unless directed otherwise.
- **FOUR HOMEWORK SETS: Each homework set is worth 25 points. Total 100 points**  
Each homework set will consist of 20 to 30 logic problems. Four out of five homework sets will count, with the lowest or one missing homework score being dropped. Accordingly, each homework set is weighted as 5% of a student's course grade. Students will be given at least a 72-hour window to work on the homework questions. Generally, homework sets are available by Friday morning and are due by Sunday noon (sometimes this window is widened). Although the deadline for submitting all your homework answers are fixed, there is no time limit for working on the homework. Please see Course Schedule Table for homework assignment dates.
- **EXTRA CREDIT: Each extra credit problem is worth 1 point. Total 5 points**  
Toward the end of the semester (Weeks 12-14), students may turn in the solution to logic problems to be given and worked on in class. To earn these extra credit points, a student must attend the given class in which the logic problems and correctly answer these questions. Hence, students can boost their course grade at most by 1% through this extra credit.
- **BORDERLINE CASES:** When deciding borderline cases, the instructor may take into consideration a student's attendance (as well as attentiveness), participation in group work, improvement throughout the semester, online activity, overall class distribution, and other special circumstances.

**TOTAL POINTS = 500 points (plus bonus 5 extra credit points)**

## GRADING SCALE

Table 1: Grading Scale

By Point Scale	<b>B+</b> 449-435 points	<b>C+</b> 399-385 points	<b>D+</b> 349-335 points
<b>A</b> 500-470 points	<b>B</b> 434-420 points	<b>C</b> 384-370 points	<b>D</b> 334-320 points
<b>A-</b> 469-450 points	<b>B-</b> 419-400 points	<b>C-</b> 369-350 points	<b>D-</b> 319-300 points

By Percentage	<b>B+</b> 89.9-87%	<b>C+</b> 79.9-77%	<b>D+</b> 69.9-67%
<b>A</b> 100-94%	<b>B</b> 86.9-84%	<b>C</b> 76.9-74%	<b>D</b> 66.9-64%
<b>A-</b> 93.9-90%	<b>B-</b> 83.9-80%	<b>C-</b> 73.9-70%	<b>D-</b> 63.9-60%

## LATE ASSIGNMENTS AND MAKEUP EXAMS

Late penalties will be applied to homework submitted after the deadline. Unless the student has a good reason for not turning in homework on time, the penalty is 3 points off per day the homework is late. After two days, unexcused late homework will no longer be accepted. Four out of five homework assignments count.

If a student can offer good reason (e.g. doctor's note) for missing an in-class exam, then a **makeup exam** will be given sometime in the semester. Sometimes, students do not have documentation to prove that they have a legitimate reason for missing an exam. In such cases, Dr. Neuner may still allow a makeup exam but may add a late penalty to the unexcused makeup exam. As a rule, makeup tests will be different in format from those taken by the rest of the class and may contain fewer objective multiple choice questions and may require more explanation.

## ACADEMIC DISHONESTY

The University adheres to a strict [policy regarding cheating and plagiarism](http://www.sa.sdsu.edu/srr/conduct1.html). These activities will not be tolerated in this class. Become familiar with the policy (<http://www.sa.sdsu.edu/srr/conduct1.html>). Any cheating or plagiarism will result in failing this class and a disciplinary review by Student Affairs.

Examples of plagiarism or cheating include but are not limited to:

- Using sources verbatim or paraphrasing without giving proper attribution (this can include phrases, sentences, paragraphs and/or pages of work)
- Copying and pasting work from an online or offline source directly and calling it your own
- Using information you find from an online or offline source without giving the author credit
- Submitting someone else's work as your own such as copying another student's answers.

To learn more, please consult the [policy](http://www.sa.sdsu.edu/srr/conduct1.html) <http://www.sa.sdsu.edu/srr/conduct1.html> or [helpful guide from the Library](http://infodome.sdsu.edu/infolit/exploratorium/Standard_5/plagiarism.pdf): [http://infodome.sdsu.edu/infolit/exploratorium/Standard\\_5/plagiarism.pdf](http://infodome.sdsu.edu/infolit/exploratorium/Standard_5/plagiarism.pdf)

## COURSE SCHEDULE AND ASSIGNMENTS

Table 2: Schedule, Assignments and Readings

<b>DATES (subject to revision)</b>	<b>TOPICS</b>	<b>READINGS</b>
Wed 1/20	Basics of Arguments	Chapter 1 pp. 1-5
Fri 1/22 Online	Inductive Strength and Cogency	Chapter 1 pp. 1-5
Mon 1/25	Paley's Teleological Argument	Chapter 1 pp. 6-12

Wed 1/27	Deductive Validity and Soundness	Chapter 2 pp. 13-16, 23-25
Fri 1/29 Online	Anselm's Ontological Argument	Chap 2 pp. 17-18, Skip <del>19-22</del>
Mon 2/1 Online	Emotional Appeals	Chapter 3 pp. 38-40, 43-51
Wed 2/3	Definitions & Fallacies of Ambiguity	Chapter 3 pp. 27-28, 35-36
Fri 2/5	<b>Homework Set 1</b> (Chapters 1 & 2)	Chapters 1-2 and part of Ch. 3
Mon 2/8	Rhetorical Devices	Chapter 3 pp. 29-31, 37-38
Wed 2/10	<b>Exam One</b>	Chapters 1, 2, and part of 3
Fri 2/12	Categorical Claims, Two-Circle Venn	Chapter 5 pp. 76-83
Mon 2/15	The Square of Opposition	Chapter 5 pp. 84-87
Wed 2/17	More Venn and Square Problems	Chapter 5 continued
Fri 2/19 Online	Converse, Contrapositive, Obverse	Chapter 5 pp. 88-92
Mon 2/22	Categorical Logic Translations	Chapter 5 pp. 93-96
Wed 2/24	Categorical Syllogism, Chart Method	Chapter 5 pp. 97-102
Fri 2/26	<b>Homework Set 2</b> (Chapter 5)	
Mon 2/29	Informal Fallacies	Chapter 4 pp. 52-59
Wed 3/2	<b>Exam Two</b>	Chapters 4 and 5
Fri 3/4 Online	The Rules Method	Ch 5 pp. 116-120, <del>121-124</del>
Mon 3/7	Three-Circle Venn Diagram	Chapter 5 pp. 103-110
Wed 3/9	Three-Circle Venn Diagram (cont)	Chapter 5 pp. 111-116
Fri 3/11 Online	Propositional Logic Translations	Chapter 6 pp. 125-132
Mon 3/14	Propositional Logic Translations	Chapter 6 continued
Wed 3/16	Truth Tables for Statements	Chapter 6 pp. 142-149
Fri 3/18 Online	<b>Homework Set 3</b> (Chapters 5 & 6)	
Mon 3/21	Multi-Row Truth Tables	Chapter 6 pp. 150-151
Wed 3/23	<b>Exam Three</b>	Chapters 5 and 6
Fri 3/25 Online	Multi-Row Truth Tables	Chapter 6 pp. 152-153
<i>Mon 3/28 to Fri 4/1</i>	<i>Spring Break</i>	<i>No Classes</i>
Mon 4/4	Rules of Implication Part I	Ch 7 pp. 166, 170, 174-178
Wed 4/6	Rules of Implication Part II	Ch 7 pp. 167, 171, 179
Fri 4/8 Online	Practice on Proofs – First 8 Rules	Chapter 7 continued
Mon 4/11	Truth Table for Arguments	Chapter 6 pp. 153-156
Wed 4/13	Argument Forms and Logic Puzzles	Chapter 6 pp. 136-141
Fri 4/15 Online	<b>Homework Set 4</b> (Chapters 6 & 7)	
Mon 4/18	Informal Fallacies (continued)	Chapter 4 pp. 62-75
Wed 4/20	<b>Exam Four</b>	Chapters 3, 6, 7
Fri 4/22	Indirect Truth Tables	Chapter 6 pp. 156-165

Mon 4/25	Rules of Replacement Part I	Ch 7 pp. 168, 172, 185-187
Wed 4/27	Rules of Replacement Part II	Ch 7 pp. 169, 173, 188-190
Fri 4/29	<b>Homework Set 5</b> (Chapters 6 & 7)	
Mon 5/2	Moral Fallacies	Chapter 8 pp. 200-210
Wed 5/4	Final Exam Review	
Fri 5/6	<b>Final Exam</b>	<b>10:30 am – 12:30 pm</b>

## PARTICIPATION AND ATTENDANCE

It is recommended that students attend all classes and view online material in a timely basis. For each class meeting, students should bring their Logic Workbook to facilitate note-taking and problem-solving. Students who miss class are responsible for acquiring the material and keeping pace with the course. Although regular attendance and keeping up with the reading does not contribute to a student's course grade, students will find that these things have a positive impact on their exams and papers. On the other hand, disruptive behavior or misuse of technological devices during class may negatively affect borderline grades.

Use of lap top computers in class is allowed for the purposes of note-taking only; other computer activities can prove distracting. Students should also refrain from any behavior that may be disturbing to other students who are making the effort to be attentive. Cell phones and other electronic devices should be turned off and stored away. PLEASE **RESPECT OTHER STUDENTS BY NOT TALKING** to one another during class. Certain students may be asked to leave the lecture hall due to their disruptive behavior or technological devices may be taken away.

Students should try to be punctual, but are encouraged to show up to class even if they may be a little late due to unforeseen circumstances. The instructor will never keep the class beyond the allotted class period and requests that students wait until class has been dismissed before they begin closing notebooks and packing away their school gear. If class must be cancelled on a given date, an announcement will be made by the instructor or a note will be posted on the classroom door or via Blackboard. If the instructor is more than 15 minutes late, please assume that the class is cancelled and that advance notice was not possible.

Please be sure to attend all lectures and keep up with the readings and exercises because the lessons often build off of previous ones. For half of the lectures, we may use Powerpoint slides to convey our material. However, much of the time (especially during the second half of the semester) we will explain concepts and solve problems using the whiteboard. The Powerpoint slides shown during class will be made available to all students about a week prior to a given exam but sometimes they may be posted in Blackboard sooner.

## STUDENTS WITH DISABILITIES AND RELIGIOUS OBSERVANCE/ATHLETICS

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note

that accommodations are not retroactive, and that accommodations based upon disability cannot be provided until you have presented your instructor with an accommodation letter from Student Disability Services. Your cooperation is appreciated.

By the end of the second week of classes, students should notify instructor of planned absences for religious observances. This also holds for student athletes and supportive groups (like the marching band, not fans). They must inform faculty members within the first two weeks in order to be excused from scheduled tasks on scheduled days.

## CONTACT INFORMATION

We will try to respond within 24-48 hours to emails sent to [aneuner1@mail.sdsu.edu](mailto:aneuner1@mail.sdsu.edu) or [aneuner@att.net](mailto:aneuner@att.net). For quicker response time, you may use the class email [sdsu.phil.120@gmail.com](mailto:sdsu.phil.120@gmail.com). TA's and Dr. Neuner will be checking the class email frequently. When you email us please state that you belong to **Phil 120**. I teach other classes and have over 500 students.

**EMAIL:** The TA's and I will be communicating with you by email. You should check your email once a day and log in to our Blackboard announcement page at least every other day. Please be sure that you can **receive email from Blackboard**. Make sure that your email address within the system is **correct**. Some email systems block Blackboard mailings as if they are spam. Either fix this, or obtain an SDSU email account (<http://www-rohan.sdsu.edu/newstudacct.shtml>.) If you do not hear back from us in due time, please email us again with a different heading (in case the original was recognized as spam).

with a certain TA or with Dr. Neuner, emails will be answered by the first person able to assist you.

**CAMPUS OFFICE HOURS** Dr. Neuner's office hours at the SDSU campus will be held in AL 444. Dr. Neuner's will hold regular office hours on Mon 1-2pm and Tues 11-1:00 pm. Additional office hours may be offered prior to exams. TA's may also post office hours or hold study groups prior to a given assignment or upon request. TA contact information will be posted in our Blackboard announcement page.