

# PHIL 211Q: SYMBOLIC LOGIC 1

FALL/SPRING 20XX | MWF X:XX OR TR X:XX | BUILDING XXX

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## 1 COURSE DESCRIPTION & OBJECTIVES

This course is devoted to the systematic analysis of deductive validity. We focus on two formal languages and their corresponding logics: classical propositional logic (CPL) and classical first-order logic (FOL). The objectives for this course are two-fold:

- To learn the semantics for the formal languages  $\mathcal{L}_{\text{CPL}}$  and  $\mathcal{L}_{\text{FOL}}$ , and to be able to prove their theorems using *analytic tableaux*;
- To evaluate  $\mathcal{L}_{\text{FOL}}$  as a model of portions of English, and to briefly consider  $\mathcal{L}_{\text{FOL}}$  as the language of certain portions of classical mathematics.

## 2 COURSE REQUIREMENTS

### 2.1 TEXTS

In addition to reading any course handouts, you are required to purchase and read the following textbook:

- Restall, Greg. *Logic*. Montreal & Ithaca: McGill-Queen's University Press, 2006. [ISBN: 0773524231]

Reading assignments should be completed before lectures on Mondays. This textbook has some serious typos which *must* be corrected. For a list of 'errata', visit: [http://consequently.org/edit/page/Logic\\_Text\\_Errata](http://consequently.org/edit/page/Logic_Text_Errata).

### 2.2 GRADES

Your grade is based on 250 points; the number of points you earn will determine your grade. Points are earned from *Quizzes*, *Exams*, *Exercises*, and *Participation*, divided up as follows:

|                     |         |      |
|---------------------|---------|------|
| 10 Quizzes @ 10 pts | 100 pts | 40%  |
| 4 Exams @ 25 pts    | 100 pts | 40%  |
| Exercises           | 25 pts  | 10%  |
| Participation       | 25 pts  | 10%  |
| Total               | 250 pts | 100% |

- Quizzes and exams will be primarily over reading and lecture material, but may also include material from the exercises. All quizzes and exams will be given on Fridays. *See course policies below.*
- Exercise sets will be assigned weekly from the textbook and handouts. Assigned exercises should be (nearly) complete by the Wednesday workshops; please come with questions. Exercises are to be *neatly organized* in a folder and turned in at the end of the semester before the final exam. You are encouraged to help each other; however, 'copying' is not allowed.
- Attendance is required. Your participation grade depends additionally on whether you are prepared and engaged in class.

### 3 COURSE SCHEDULE

The following schedule is subject to change, including quiz and exam dates. Any changes will be discussed in class and posted on WebCT.

| WEEK #  | DATES           | MONDAY              | WEDNESDAY        | FRIDAY  |
|---------|-----------------|---------------------|------------------|---------|
| Week 1  | 27-31 Aug.      | Intro. pp 1-3       | Ch. 1            | Quiz 1  |
| Week 2  | 03-07 Sept.     | No Class            | Ch. 1 & HO       | Quiz 2  |
| Week 3  | 10-14 Sept.     | Ch. 2               | Workshop         | Quiz 3  |
| Week 4  | 17-21 Sept.     | Ch. 3               | Workshop         | Exam 1  |
| Week 5  | 24-28 Sept.     | Handout #2          | Ch. 4            | Quiz 4  |
| Week 6  | 01-05 Oct.      | Ch. 4 (cont'd)      | Workshop         | Exam 2  |
| Week 7  | 08-12 Oct.      | Ch. 8               | Workshop         | Quiz 5  |
| Week 8  | 15-19 Oct.      | Ch. 9               | Workshop         | Quiz 6  |
| Week 9  | 22-26 Oct.      | Ch. 9 & Handout     | Workshop         | Quiz 7  |
| Week 10 | 29 Oct.-02 Nov. | Ch. 10              | Workshop         | Quiz 8  |
| Week 11 | 05-09 Nov.      | Ch. 10 (cont'd)     | Workshop         | Exam 3  |
| Week 12 | 12-16 Nov.      | Ch. 11 & Handout    | Workshop         | Quiz 9  |
| Week 13 | 18-24 Nov.      | Thanksgiving Recess |                  |         |
| Week 14 | 26-30 Nov.      | Ch. 11 (cont'd)     | Workshop         | Quiz 10 |
| Week 15 | 03-07 Dec.      | Robinson Arithmetic | Basic Set-theory | Review  |

The final exam date - tentatively 11 Dec. 8:00AM - is set by the registrar. Please check and double-check the date and time for the final here: <http://www.registrar.uconn.edu/examinfo.html>

### 4 COURSE POLICIES

- If any student in this class needs test-taking or note-taking accommodations, please feel free to come and discuss this with me. University resources can be found at: <http://www.csd.uconn.edu/>.
- Any suspicion of academic misconduct will result in automatic failure and further disciplinary action. If you are unfamiliar with the University policies, visit: [http://www.dosa.uconn.edu/student\\_code.html](http://www.dosa.uconn.edu/student_code.html).
- Class time is important, so please do not interrupt by leaving early or coming late.
- I *never* allow 'make-ups' for quizzes. Missed exams can only be made-up in extreme and documented emergencies (i.e. family death, hospitalization). Unavoidable scheduling conflicts will be accommodated at my discretion and must be discussed with me well in advance.