ELEMENTARY FORMAL LOGIC  PHIL203 (AO1)

Explores the fundamentals of good reasoning by means of symbolic techniques in both propositional and predicate logic. Students will learn to translate English sentences into logical notation, as well as how to use truth tables and derivations to demonstrate the validity of arguments.

PLACE/TIME ECS 116, Mon/Thu 1:00pm-2:20pm (spring 2019)

INSTRUCTOR Dr. Mike Raven (mike@mikeraven.net • mikeraven的语言学)
OFFICE HOURS • CLE B323 Mon/Thu 11:30am–12:30pm, or appointment.

ASSISTANTS Patrick Reilly (pattemplateilly@gmail.com) | Ryan Tonkin (rtonkin@gmail.com)
OFFICE HOURS • MAC D281 Fri 12:00pm–2:00pm.

WEBSITE coursespaces.uvic.ca/course/view.php?id=51690

The website’s content (including this syllabus) is “live” and will be updated. Consult the website for the most up to date, official course information.

TEXT • BARKER-PLUMMER, BARWISE & ETCHEmENDY, Language, Proof and Logic (2ed ed)
Available in physical or digital form (ggweb.gradegrinder.net/store).

An unused registration ID is required and obtained by buying the text new. (Used copies likely won’t have a usable ID, and therefore should be avoided.)

When registering, list your given name before your family name.

QUESTIONS Email questions about the content of the course to: logic.uvic@gmail.com

EVALUATION

GRADES The grade you earn is determined by the quality of your work in this course.

WORK ➤ PROBLEM SETS (40%): 11 problem sets; lowest 1 dropped (4% each).
• Most problem sets are submitted online to Submit:
  – Problem sets are available throughout the term and may be submitted any time before their due dates.
  – Follow the problem set’s instructions to submit files.
  – When submitting to Submit, use logic.uvic@gmail.com.
  – Submitted files are graded automatically by the GradeGrinder software.

☑ CHECKPOINTS (20%): 21 reading comprehension quizzes; lowest 3 dropped (1.1% each).
• Complete these online at CourseSpaces prior to the designated class.
  – Submissions are unlocked after the previous class ends.
  – Submissions are locked 30 minutes before the designated class starts.

♦ EXAMS (40%): 2 cumulative exams (weighted comparably).
  – Exam 1 will be held in class Thursday February 14.
  – Exam 2 will be held in class Thursday April 4.
  – Read Exam Study Guide posted on CourseSpaces.

GRACE POINTS A grace point can be used to delay a problem set’s due date by 1 day. Each student begins with 5. Points can be used in any combination at the students’ discretion (no justification needed). But points cannot be reused, traded, or earned.
• To use, click Add Text Message in Submit when submitting your problem set and write in the text box ‘Using # grace points’ (replace # with the number of grace points). This is the only way to use grace points.

LATENESS No work submitted after a due date will be accepted, except for appropriate accessibility reasons (see ACCESSIBILITY).
POLICIES

CONDUCT Enrolling binds you to a social contract with your instructor and classmates:
• Be prepared. Read the syllabus. Do the reading before class. Attend class.
• Be respectful. In class, don’t bully or distract.
• Be professional. Check sources first (don’t expect replies to questions answered by the syllabus). Follow etiquette. Allow time for replies.

ACCESSIBILITY Arrange accommodations with CAL. Other accommodation requests (e.g. extra credit, extensions, alternate/make-up work) will not be considered, except under extraordinary circumstances (instructor’s discretion) and when both the request and suitable documentation are received no more than 3 days after the due date.

PRIVACY Course documents are the instructor’s intellectual property. Do not distribute. Recordings permitted only with instructor’s prior consent.

INTEGRITY Plagiarism and cheating are not tolerated. Ignorance is no excuse. Read:
   web.uvic.ca/calendar2019-01/undergrad/info/regulations/academic-integrity.html
Additionally, GradeGrinder checks all submissions for plagiarism. Read:
   ggweb.gradegrinder.net/gradegrinder/timestamps

SCHEDULE Tentative: see website for updates.

PREDICATE LOGIC

JAN 7 • All course documents
       ➫ Introduction, 1.1-1.3
10  
14 | Validity and Soundness, 2.1, 2.5 ➫ DUE: Problem Set 1
17  
21 | Boolean Connectives, 3.1-3.3, 3.5-3.7 ➫ DUE: Problem Set 2
24  
28 | Truth Tables, 4.1-4.4 ➫ DUE: Problem Set 3
31  
FEB 4 • Formal Proofs: Boolean Connectives, 2.2-2.4, 6.1-6.6 ➫ DUE: Problem Set 4
7  
11 | Conditionals, 7.1-7.2, 8.2, 8.4 ➫ DUE: Problem Set 5
14  ● Exam #1

FIRST-ORDER LOGIC

MAR 4 • Introduction to Quantifiers, 9.1-9.6 ➫ DUE: Problem Set 6
25  
28  • Multiple Quantifiers, 11.1-11.5 ➫ DUE: Problem Set 7
MAR 7  
11 | Numerical Quantifiers, 14.1, 14.3 ➫ DUE: Problem Set 8
14  
21  
28  
APR 1 • Catch-up and Review ➫ DUE: Problem Set 11
4  ● Exam #2