Phil 203: Elementary Formal Logic Syllabus

Course Information:

Instructor: Dr. Audrey Yap (ayap@uvic.ca)
Class Schedule: TWF 11:30-12:20 in HSD A240
Oce Hours: Th 9:30am{11:20am on Zoom (sign up required)

Course Website: Through Brightspace (https://bright.uvic.ca/d2l/home)
Textbook: Abridged Version of http://forallx.openlogicproject.org/ PDF copy available through the course website. We will also use free web-based software at https://carnap.io/.

Course Description:

This is an introductory course in formal logic that covers the use of symbolic techniques for the analysis and construction of good arguments. Proofs in formal logic mirror the structure of good arguments in English generally, so to construct them, we learn about good methods of inference. Not every method of reasoning results in a valid argument, so it is useful to learn about ways of dierentiating good from bad methods. Since this course covers the basics of modern symbolic logic, it is extremely useful for any students who might want to continue studying logic; but any students interested in writing better arguments can benet from it.

Learning Objectives:

You will learn the basic terminology and concepts of formal logic, and apply them to the formal languages we will learn using truth-functional connectives and quantiers. The main skills you will learn will be:

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8 total) or a unit test (15%   4 total) covering the last several weeks of material. These will be completed on carnap.io, and are untimed, which means that they only need to be turned in by the due date. Quizzes and tests will be released on Friday mornings and will be due by 11:59pm on Sunday.

O ce Hours: I will be available for o ce hours on . My default platform for o ce hours will be Zoom, but if that does not work for you, please feel free to email me in advance to suggest an alternative. You will need to schedule an appointment beforehand using the following link: https://calendly.com/ayap/office. Appointments can be scheduled in 15 minute blocks, up to a week in advance. If you are working with a study group and would like to attend o ce hours as a group, simply designate one person to reserve the appointment slot, and let me know who else will be attending.

Academic Integrity: You are welcome and encouraged to discuss course material with others in your class, and work through modules and practice questions together. However, you are not allowed to provide the solutions for someone else's quizzes or tests, or vice versa. If you are ever unsure about what constitutes a violation of academic integrity, more information is provided on the University Calendar: https://bit.ly/3RWIz3Q.

Extensions: I know that sometimes things do not go as planned. You are welcome to two days' worth of extensions on quizzes or tests. This means you can take two extra days to complete a single assignment, or hay5.343 rhay5.343 rhay87.149 rhayssing3 n-14402(designate(t)-

Accessibility:

If you notice any additional accessibility issues with respect to this class, please let me know and I will do my best to solve them. I would also encourage any students who might bene t from their services to register with the Centre for Accessible Learning (https://www.uvic.ca/services/cal/).

Numerical and Letter Grades:

Grades will be given as percentile marks. The percentile mark for the course will be converted to a letter grade in the following manner:
A+ = 90 - 100, A = 85 - 89, A- = 80 - 84, B+ = 77 - 79, B = 73 - 76, B- = 70 - 72, C+ = 65 - 69, C = 60 - 64, D = 50 - 59, F = 0 - 49. The A range means exceptional, outstanding and excellent performance. A grade in the B range means a very good, good and solid performance. A grade in the C+ or C range means satisfactory, or minimally satisfactory, performance. A grade of D indicates merely passable or marginal performance. An F indicates unsatisfactory performance.

Schedule of Topics:

- Week One: Short week | Sep 7{11

  Topic: Introduction to Arguments and Formal Logic (Chap 1-2)

- Week Two: Sep 12{18

  Topic: Symbolizing English (Chap 4-6)
  Practice Questions posted by Sep 15
  Quiz One completed by Sep 18

- Week Three: Sep 19{25

  Topic: Introduction to Truth Tables (Chap 8-10)
  Practice Questions posted by Sep 22
  Quiz Two completed by Sep 25

- Week Four: Sep 26{Oct 2

  Topic: Truth Tables, Continued (Chap 11-13)
  Practice Questions posted by Sep 29
  Test One (Symbolization and Truth Tables) completed by Oct 2

- Week Five: Oct 3{9

  Topic: Natural Deduction (Chap 14-15)
  Practice Questions posted by Oct 6
  Quiz Three completed by Oct 9

- Week Six: Oct 10{16 (Oct 10 is a holiday)

  Topic: Natural Deduction (Chap 15-16)
  Practice Questions posted by Oct 13
  Quiz Four completed by Oct 16

- Week Seven: Oct 17{23

  Topic: Natural Deduction (Chap 16)
  Practice Questions posted by Oct 20
  Test Two (Natural Deduction) completed by Oct 23

- Week Eight: Oct 24{30

  Topic: Introduction to First-Order Logic (Chap 21-22)
  Practice Questions posted by Oct 28
  Quiz Five completed by Oct 30

- Week Nine: Oct 31{Nov 6

  Topic: More Complex Symbolization (Chap 23-24)
  Practice Questions posted by Nov 3
  Quiz Six completed by Nov 6

- Week Ten: Nov 7-13 (Reading Break is Nov 9-11)

  Topic: Review of FOL (no new material)
  Test Three completed by Nov 13

- Week Eleven: Nov 14{20

  Topic: Natural Deduction for FOL (Chap 32-33)
  Practice Questions posted by Nov 17
  Quiz Seven completed by Nov 20

- Week Twelve: Nov 21{27

  Topic: Natural Deduction for FOL (Chap 34-36)
  Practice Questions posted by Nov 24
  Quiz Eight completed by Nov 27

- Week Thirteen: Nov 28-Dec 4

  Topic: Natural Deduction for FOL (Review)
  Practice Questions posted by Dec 1
  Test Four completed by Dec 4