

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.

INSTRUCTOR Professor Mike Raven (✉ raven@uvic.ca • raven.site)
OFFICE HOURS • Wednesdays 1:00-3:00^{PM} in CLE B323 or weekdays by appointment.

ASSISTANT TBA (✉ TBA@uvic.ca)
OFFICE HOURS • TBA in CLE D275.

INSTRUCTION On campus: Mondays/Thursdays 1:00-2:20^{PM} in ELL 167.

LMS bright.uvic.ca/d2l/home/155409 (Consult for updates and current course documents.)

TEXTS [Magnus & Button et al, forall x: Calgary](#) (Open Logic Project)

SOFTWARE [Carnap](#) (free online software for problem sets and exams; requires a stable internet connection)
To enroll: use your names given to UVic's registrar and use your UVic email

EVALUATION

RUBRIC Grades (✉ [UVic's scale](#)) you earn are determined by the philosophical craftsmanship of your work for this course according to the **RUBRIC**: raven.site/teaching/Rubric.pdf

WORK

- **INTEGRITY MATTERS** Short online course on academic integrity.
- **PERFORMANCE** ^[2/3] 2 equal-weight cumulative timed online **EXAMS** (see **EXAM GUIDE**)
- **PRACTICE** ^[1/3] 12 equal-weight online **PROBLEM SETS**, best 10 counted (see **PRACTICE GUIDE**)

A failing **N** grade will be earned if any essential work (•) is not completed.

LATENESS Work submitted after a due date will *not* be accepted (see **ACCESSIBILITY** for exceptions).

POLICIES

CONDUCT Enrolling binds you to a social contract with your instructor and classmates:

- **Be prepared.** Consult course documents. Read assigned text before class.
- **Be engaged.** Attend class. Use office hours and tutorials.
- **Be respectful.** Don't bully or distract others.
- **Be professional.** Check sources first. Follow etiquette. Allow ≥ 1 day for replies.
- **Demonstrate academic integrity:** www.uvic.ca/current-students/home/academics/academic-integrity/

REQUESTS Accessibility arrangements must be made with **CAL** (see **RESOURCES**). Other requests (extra credit, extensions, alternate/makeup work) will *not* be considered, except by for extraordinary cases (instructor's discretion; e.g. *not* technical/wifi issues) and when the request (and documents, if any are required) is received within 3 days of the due date.

GUESTS Guests permitted only with instructor's prior consent.

RESOURCES

INDIGENOUS SUPPORT We acknowledge and respect the lək'wəṇən peoples on whose traditional territory the university stands and the Songhees, Esquimalt and WSANEC peoples whose historical relationships with the land continue to this day. For more information and support: www.uvic.ca/services/indigenous/

ACCESSIBILITY For accessibility support, consult the Centre for Accessible Learning (**CAL**): www.uvic.ca/services/cal/

WELLNESS Take care of your mental and physical well-being! If your symptoms are related to this course, then please speak with the instructor. For cost-free, confidential support: www.uvic.ca/student-wellness/

LEARN ANYWHERE For student and academic support services: onlineacademiccommunity.uvic.ca/LearnAnywhere/

COPYRIGHT Course content/materials are protected by copyright law: www.uvic.ca/library/research-teaching/copyright

SCHEDULE

Consult www.uvic.ca/calendar/dates/ for important dates (including last add/drop dates).

Required texts (•) must be read *before* each class.

Dates are tentative; consult [LMS](#) for updates.

TRUTH-FUNCTIONAL LOGIC

JAN 10	• Introduction		
JAN 13	• Key notions of logic	1-3	
JAN 17	• Truth-functional logic	4-6	↗ DUE: PROBLEM SET 1
JAN 20	⋮	7-8	
JAN 24	• Truth-tables	9-10	↗ DUE: PROBLEM SET 2
JAN 27	⋮	11-12	
JAN 31	⋮	13-14	↗ DUE: PROBLEM SET 3
FEB 3	• Natural deduction	15-16,19	
FEB 7	⋮	17-18	↗ DUE: PROBLEM SET 4
FEB 10	⋮	20	
FEB 14	⋮		↗ DUE: PROBLEM SET 5
FEB 17	• Review	EXAM GUIDE	
FEB 21	<i>no class (Reading Break)</i>		↗ DUE: PROBLEM SET 6
FEB 24	<i>no class (Reading Break)</i>		
FEB 25-26	✦ EXAM 1	1-20	

FIRST-ORDER LOGIC

FEB 28	• First-order logic	22-23	
MAR 3	⋮	26	
MAR 7	⋮	24	↗ DUE: PROBLEM SET 7
MAR 10	⋮	25,27-28	
MAR 14	• Interpretations	29-30	↗ DUE: PROBLEM SET 8
MAR 17	⋮	31	
MAR 21	⋮	32	↗ DUE: PROBLEM SET 9
MAR 24	⋮	33	
MAR 28	• Natural deduction	34-35	↗ DUE: PROBLEM SET 10
MAR 31	⋮	36-37	
APR 4	⋮		↗ DUE: PROBLEM SET 11
APR 7	• Metatheory & Review	21,38-39	
APR 11	<i>no class</i>		↗ DUE: PROBLEM SET 12
APR 15-16	✦ EXAM 2	1-39	