

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.

INSTRUCTION	Monday/Thursday 1:00-2:20 ^{PM} 🏢 Bob Wright Centre A104
INSTRUCTOR	Professor Mike Raven (✉ raven@uvic.ca • 🌐 raven.site) OFFICE HOURS • Monday/Thursday 2:30-3:30 ^{PM} (or appointment) 🏢 CLE B323
ASSISTANTS	Brooke Berube (✉ brooke.berube@gmail.com) TUTORIALS • Tuesday/Friday 1:00-2:00 ^{PM} 🏢 CLE A320 (A216 on FEB14) Ryan Tonkin (✉ rtonkinjd@gmail.com) TUTORIALS • Tuesday 2:30-3:30 ^{PM} 🏢 CLE A320 (A216 on FEB14)
LMS	🌐 bright.uvic.ca/d2l/home/229827 (Consult for updates and current course documents.)
TEXT	🌐 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) Enroll with link on 🌐 LMS (you <i>must</i> use your names and email that UVic has on file)

EVALUATION

RUBRIC	Grades (🌐 UVic's scale) you earn are determined by the philosophical craftsmanship of your work for this course according to the RUBRIC: 🌐 web.uvic.ca/~raven/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] Best 10 of 12 equal-weight online problem sets (see PRACTICE GUIDE) A failing N grade will be earned if any essential work (✦) is not completed.
LATENESS	Late work receives ½ credit (except for PROBLEM SETS 1-3 which will not be penalized).

POLICIES

CONDUCT	Enrolling binds you to a social contract instructor, assistants, and classmates. 🌐 www.uvic.ca/services/advising/advice-support/academic-units/student-code-of-conduct <ul style="list-style-type: none">• 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. Use devices only when relevant.• Be professional. Check sources first. Follow etiquette. Allow ≥1 day for replies.• Demonstrate academic integrity: 🌐 www.uvic.ca/current-students/home/academics/academic-integrity/
PLANS	Accommodations are made with CAL (see RESOURCES). Concessions (e.g. in-course extensions) are considered <i>only</i> in exceptional circumstances <i>and</i> by official request: 🌐 www.uvic.ca/students/academics/academic-concessions-accommodations/request-for-academic-concession/
PRIVACY	Recordings of class are <i>not</i> permitted (except with approved CAL arrangements).
GUESTS	Guests permitted only with instructor's prior consent.
COPYRIGHT	Course content/materials are protected by copyright law: 🌐 www.uvic.ca/library/research-teaching/copyright

RESOURCES

















INDIGENOUS SUPPORT	We acknowledge and respect the ^{kw} lkw'anon 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/
ACCOMMODATION	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/















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	READINGS	PRACTICE
	JAN 9	• Introduction		
	JAN 12	• Key notions of logic	1-3	
	JAN 16	• Truth-functional logic	4-6	
		✦ INTEGRITY MATTERS		
	JAN 19	⋮	7-8	↗ DUE: PROBLEM SET 1
	JAN 23	• Truth-tables	9-10	
	JAN 26	⋮	11-12	
	JAN 30	⋮	13-14	↗ DUE: PROBLEM SET 2
	FEB 2	• Natural deduction	15-16,19	
	FEB 6	⋮	17-18	↗ DUE: PROBLEM SET 3
	FEB 9	⋮	20	
	FEB 13	⋮		
	FEB 16	• Metatheory	21	↗ DUE: PROBLEM SET 4
	FEB 20	<i>no class (Reading Break)</i>		
	FEB 23	<i>no class (Reading Break)</i>		
	FEB 27	• Review	EXAM GUIDE	↗ DUE: PROBLEM SET 5,6
	MAR 2-5	✦ EXAM 1	1-20	

		FIRST-ORDER LOGIC	READINGS	PRACTICE
	MAR 2	• First-order logic	22-23	
	MAR 6	⋮	26,24	
	MAR 9	⋮	25	
	MAR 13	⋮	27-28	↗ DUE: PROBLEM SET 7
	MAR 16	• Interpretations	29-30	
	MAR 20	⋮	31	↗ DUE: PROBLEM SET 8
	MAR 23	⋮	32-33	
	MAR 27	• Natural deduction	34-35	↗ DUE: PROBLEM SET 9
	MAR 30	⋮	36-37	
	APR 3	⋮		↗ DUE: PROBLEM SET 10
	APR 5	• Metatheory & Review	21,38-39	
	APR 10	<i>no class</i>		↗ DUE: PROBLEM SET 11
	APR 17	<i>no class</i>		↗ DUE: PROBLEM SET 12
	APR 14-21	✦ EXAM 2	1-39	