

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	Dr. Mike Raven (✉ raven@uvic.ca • 🌐 raven.site) ⌚ OFFICE HOURS • via ZOOM Mon/Thu 2:30-3:30 ^{PM} or by appointment on weekdays.
ASSISTANT	Chris Leeman (✉ cleeman@uvic.ca) ⌚ TUTORIALS • informal “drop-in” sessions via ZOOM Tue/Wed 1:00-2:15 ^{PM} .
LMS / ZOOM	🌐 bright.uvic.ca/d2l/home/50947 (Consult for updates and current course documents.) SSO / @uvic.ca credentials required for ZOOM, recommended for LMS and email.
INSTRUCTION	Remote instruction with asynchronous (↔) and synchronous (⌚) components. ⌚ Class meetings are held on Mon/Thu 1:00-2:20 ^{PM} on ZOOM: 🌐 www.uvic.ca/systems/services/avmultimedia/zoomvideoconferencing/index.php (↔ Recordings available next day on KALTURA MEDIA GALLERY ; slides also on LMS .)
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) Enroll using your names that UVic has on file.

EVALUATION

RUBRIC	Grades (🌐 UVic's scale) you earn are determined by your work for this course.
WORK	➤ PRACTICE [1/3] ↔ 12 equal-weight online PROBLEM SETS , best 10 <i>submissions</i> counted (see PRACTICE GUIDE) 📄 PERFORMANCE [2/3] ↔ 2 equal-weight cumulative timed online EXAMS (see EXAM GUIDE)
LATENESS	Work submitted after a due date is penalized 60% (see ACCESSIBILITY for exceptions).

POLICIES

CONDUCT	Enrolling binds you to a social contract with your instructor and classmates: <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 (mute mic, avoid excess chats).• Be professional. Check sources first. Follow etiquette. Allow ≥1 day for replies.
ACCESSIBILITY	Arrange accommodations with CAL . Other accommodations (e.g. extra credit, extensions, alternate/makeup work) will <i>not</i> be considered, except by instructor's discretion for extraordinary cases (e.g. <i>not</i> computer/wi-fi problems) and when the request and any needed documentation are received within 3 days of the due date.
GUESTS	Guests permitted only with instructor's prior consent.
INTEGRITY	Plagiarism, cheating, sharing your work, or submitting others' work is an academic integrity violation. Ignorance is no excuse. Familiarize yourself with the policies: 🌐 www.uvic.ca/current-students/home/academics/academic-integrity/

This syllabus is subject to revision, pending updates to [UVic's COVID-19 response](#)

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SCHEDULE

Read all assigned chapters *before* each class.

Consult  [LMS](#) for updates.

TRUTH-FUNCTIONAL LOGIC

⌚	JAN 11	• Introduction		
⌚	JAN 14	• Key notions of logic	1-3	
⌚	JAN 18	• Truth-functional logic	4-6	↗ DUE: PROBLEM SET 1
⌚	JAN 21	⋮	7-8	
⌚	JAN 25	• Truth-tables	9-10	↗ DUE: PROBLEM SET 2
⌚	JAN 28	⋮	11-12	
⌚	FEB 1	⋮	13-14	↗ DUE: PROBLEM SET 3
⌚	FEB 4	• Natural deduction	15-16,19	
⌚	FEB 8	⋮	17-18	
⌚	FEB 11	⋮	20	↗ DUE: PROBLEM SET 4
	FEB 18	<i>no class (Reading Break)</i>		↗ DUE: PROBLEM SET 5
	FEB 19	<i>no class (Reading Break)</i>		
⌚	FEB 25	• Metatheory &	21	↗ DUE: PROBLEM SET 6
⌚	FEB 25	• Review	EXAM GUIDE	
↔	FEB 26-27	✦ EXAM 1	1-20	

FIRST-ORDER LOGIC

⌚	MAR 1	• First-order logic	22-23	
⌚	MAR 4	⋮	26	
⌚	MAR 8	⋮	24	↗ DUE: PROBLEM SET 7
⌚	MAR 11	⋮	25,27-28	
⌚	MAR 15	• Interpretations	29-30	↗ DUE: PROBLEM SET 8
⌚	MAR 18	⋮	31	
⌚	MAR 22	⋮	32	
⌚	MAR 25	⋮	33	↗ DUE: PROBLEM SET 9
⌚	MAR 29	• Natural deduction	34-35	
⌚	APR 1	⋮	36-37	↗ DUE: PROBLEM SET 10
⌚	APR 5	<i>no class (Easter Monday)</i>		
⌚	APR 8	⋮	38-39	↗ DUE: PROBLEM SET 11
⌚	APR 12	• Metatheory & Review		
	APR 15	<i>no class</i>		↗ DUE: PROBLEM SET 12
↔	APR 16-17	✦ EXAM 2	1-39	