

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.

OUTCOMES	Competence in the theory of and application of classical first-order logic. ↳ Fulfills the logic requirement for the Philosophy Major Program .
INSTRUCTION	Monday/Thursday 1:00-2:20 ^{PM} 📖 ECS 123 FACE-TO-FACE
INSTRUCTOR	Professor Mike Raven (raven@uvic.ca • raven.site) 📖 OFFICE HOURS • Wednesday 12:00-1:30 ^{PM} CLE B323 (or by appointment)
ASSISTANTS	Chris Leeman (cleeman@uvic.ca) Neve Sugars-Keen (nevesugarskeen@uvic.ca) TUTORIAL • Thu 3:00-4:20 ^{PM} 📖 CLE C116 TUTORIAL • Mon 11:30 ^{AM} -12:50 ^{PM} 📖 CLE C111
LMS	• bright.uvic.ca/d2l/home/366788 (Consult for updates and current course documents.) • Carnap (free online software for exams and problem sets; requires a stable internet connection)
TEXTS	📖 REQUIRED • Raven, <i>Form: Introducing Formal Logic</i>

EVALUATION

GRADES	Completing all essential work (▶) completes the course. Omitting essential work earns a failing N course grade. There is no extra credit or make-up work. Grades earned are assessed for craftsmanship (RUBRIC).		
WORK	▶ INTEGRITY	Integrity in Practice	DUE: LMS (see SCHEDULE)
	▶ PERFORMANCE [² / ₃]	2 equal-weight cumulative timed online exams (EXAM GUIDE)	
		▶ EXAM 1	OPEN: FEB 27-MAR 1
		▶ EXAM 2	OPEN: APR 15-17
	▷ PRACTICE [¹ / ₃]	Best 10 of 12 equal-weight problem sets (PRACTICE GUIDE)	
		▷ PROBLEM SETS 1-2	DUE: FEB 3
		▷ PROBLEM SETS 3-6	DUE: FEB 24
		▷ PROBLEM SETS 7-9	DUE: MAR 24
		▷ PROBLEM SETS 10-12	DUE: APR 14
			Late work receives ½ credit, rounded down

POLICIES

RESPECT	Enrolling binds you to a social contract with your instructor and classmates. Create a respectful, inclusive, and productive learning environment . Don't bully or distract others. Use devices only for class purposes. No guests without instructor's permission.
PREPARE	Know course documents. Read texts before class. Budget time for email replies.
ENGAGE	Class attendance is expected . Use office hours and tutorials.
INTEGRITY	Know UVic's academic integrity policies. GenAI is prohibited (unless explicitly allowed).
PLANS	Academic concessions must be by official request. Accommodation of religious observance must be in advance. Inform instructor of CAL plans (these are not blanket extensions and do not replace grace points, concessions, or other accommodations).
PRIVACY	Classes are not recorded/streamed. No unauthorized recording/streaming.
COPYRIGHT	Course content/materials are protected by copyright law .
INFO	Information for all students student conduct non-academic student misconduct equity and human rights sexualized violence discrimination and harassment
RESOURCES	Learn Anywhere Student Wellness IACE Ombudsperson

SCHEDULE

Required texts (•) must be read *before* each class. Optional texts (°) are also most usefully read *before* each class.
Dates are tentative; consult LMS for updates. See www.uvic.ca/calendar/dates/ for important dates (last add/drop dates).

INTRODUCTION • Form I			
JAN 6	• Introduction		
JAN 9	• Logical Form (Form I)		
SENTENTIAL LOGIC • Form II			
		PRACTICE TARGET	DUE
JAN 13	• Syntax (Form II.2)	⊕ PROBLEM SET 1	
JAN 16	• Semantics (Form II.3)		
JAN 20	•	⊕ PROBLEM SET 2	
JAN 23	•		
JAN 27	• Derivations (Form II.4)	⊕ PROBLEM SET 3	
JAN 30	•		► INTEGRITY
FEB 3	•	⊕ PROBLEM SET 4	▷ PROBLEM SETS 1-2
FEB 6	• Applications (Form II.5)		
FEB 10	•	⊕ PROBLEM SET 5	
FEB 13	•		
FEB 17	NO CLASS – READING BREAK	⊕ PROBLEM SET 6	
FEB 20	NO CLASS – READING BREAK		
MONADIC LOGIC • Form III			
		PRACTICE TARGET	DUE
FEB 24	• Syntax (Form III.6)		▷ PROBLEM SETS 3-6
FEB 27	• Semantics (Form III.7)		► EXAM 1 opens
MAR 1	NO CLASS		► EXAM 1 closes
MAR 3	•	⊕ PROBLEM SET 7	
MAR 6	• Derivations (Form III.8)		
MAR 10	•	⊕ PROBLEM SET 8	
MAR 13	• Applications (Form III.9)		
MAR 17	•	⊕ PROBLEM SET 9	
FIRST-ORDER LOGIC • Form IV			
		PRACTICE TARGET	DUE
MAR 20	• Syntax & Semantics (Form IV.1-2)		
MAR 24	• Derivations (Form IV.3)	⊕ PROBLEM SET 10	▷ PROBLEM SETS 7-9
MAR 27	•		
MAR 31	• Applications (Form IV.4)	⊕ PROBLEM SET 11	
APR 3	•		
APR 7	NO CLASS	⊕ PROBLEM SET 12	
APR 14	NO CLASS		▷ PROBLEM SETS 10-12
APR 15	NO CLASS		► EXAM 2 opens
APR 17	NO CLASS		► EXAM 2 closes