Elementary Formal Logic

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 1:00-2:20PM 🏛 Bob Wright Centre A104 **IN-PERSON** *ONLY*
INSTRUCTOR	Professor Mike Raven (raven@uvic.ca • raven.site)
	OFFICE HOURS • Mon 2:30-3:30PM & Wed 1:00-2:00PM (or appointment) 🏛 CLE B323
ASSISTANTS	Brooke Berube (brookeberube@uvic.ca) Maryjane Brown (maryjanebrown@uvic.ca)
	TUTORIAL • Thu 10:00-10:50AM 🏛 MAC D101 **TUTORIAL** • Tue 1:00-2:50PM 🏛 HSD A264
LMS	• bright.uvic.ca/d2l/home/301540 (Consult for updates and current course documents.)
	• Carnap (free online software for exams and problem sets; requires a stable internet connection)
TEXTS	📖**REQUIRED** • Raven, *Form: Introducing Formal Logic*

EVALUATION

GRADES	Students have completed the course upon their completion of all essential work (▶). A failing N course grade is earned if any essential work is not completed. There is no extra credit or make-up work. All work earns a grade based on its craftsmanship (RUBRIC).	
WORK	▶ INTEGRITY	Online courses: Integrity Matters and Integrity in Practice.
	▶ PERFORMANCE [$^2/_3$]	2 equal-weight cumulative timed online exams (**EXAM GUIDE**)

	▶ EXAM 1	OPEN: FEB 29-MAR 2
	▶ EXAM 2	OPEN: APR 18-20

▷ PRACTICE [$^1/_3$]   Best 10 of 12 equal-weight problem sets (**PRACTICE GUIDE**)

▷ PROBLEM SETS 1-2	DUE: FEB 5	
▷ PROBLEM SETS 3-6	DUE: FEB 28	Late work receives ½ credit, rounded down
▷ PROBLEM SETS 7-9	DUE: APR 1	
▷ PROBLEM SETS 10-12	DUE: APR 15	

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**. Class attendance is expected. Use office hours and tutorials.
	• **Be respectful**. Don't bully or distract others. Use devices only for class purposes.
	• **Be professional**. Check sources first. Follow etiquette. Allow ≥1 day for replies.
	• **Demonstrate academic integrity**. Learn the policies. Ignorance is no excuse.
PLANS	Accessibility plans must be made through the Centre for Accessible Learning.
	All academic concessions must be made by official request.
RECORDINGS	Classes are not recorded/streamed. No unauthorized recording/streaming.
GUESTS	Guests permitted only with instructor's prior consent.
COPYRIGHT	Course content/materials are protected by copyright law.

RESOURCES

LAND ACKNOWLEDGEMENT	We acknowledge and respect the ləkʷəŋən peoples on whose traditional territory the university stands and the Songhees, Esquimalt and W̱SÁNEĆ peoples whose historical relationships with the land continue to this day.
WELLNESS	Take care of your mental and physical well-being! If your symptoms are related to this course, then please speak with the instructor.
LEARN ANYWHERE	For student and academic support services.

SCHEDULE

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

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

Target dates for completing problem sets are listed in addition to their due dates.

Dates are tentative; consult LMS for updates.

	INTRODUCTION		
JAN 8	• Introduction		
JAN 11	• Logical Form (*Form* I)		

	SENTENTIAL LOGIC	PRACTICE TARGET	DUE
JAN 15	• Syntax (*Form* II.2)	⊕ PROBLEM SET 1	
JAN 18	• Semantics (*Form* II.3)		
JAN 22		⊕ PROBLEM SET 2	
JAN 25			
JAN 29	• Derivations (*Form* II.4)	⊕ PROBLEM SET 3	
FEB 1			
FEB 5		⊕ PROBLEM SET 4	▷ PROBLEM SETS 1-2
FEB 7	• Applications (*Form* II.5)		
FEB 12		⊕ PROBLEM SET 5	
FEB 15			
FEB 19	*NO CLASS – READING BREAK*	⊕ PROBLEM SET 6	
FEB 22	*NO CLASS – READING BREAK*		

	MONADIC LOGIC	PRACTICE TARGET	DUE
FEB 26	• Syntax (*Form* III.6)		
FEB 28	*NO CLASS*		▷ PROBLEM SETS 3-6
FEB 29	• Semantics (*Form* III.7)		▶ EXAM 1 opens
MAR 2	*NO CLASS*		▶ EXAM 1 closes
MAR 4		⊕ PROBLEM SET 7	
MAR 7	• Derivations (*Form* III.8)		
MAR 11		⊕ PROBLEM SET 8	
MAR 14	• Applications (*Form* III.9)		
MAR 18		⊕ PROBLEM SET 9	

	FIRST-ORDER LOGIC	PRACTICE TARGET	DUE
MAR 21	• Syntax & Semantics (*Form* IV.1-2)		
MAR 25	• Derivations (*Form* IV.3)	⊕ PROBLEM SET 10	
MAR 28			
APR 1	*NO CLASS*	⊕ PROBLEM SET 11	▷ PROBLEM SETS 7-9
APR 4	• Applications (*Form* IV.4)		
APR 8		⊕ PROBLEM SET 12	
APR 17	*NO CLASS*		▷ PROBLEM SETS 10-12
APR 18	*NO CLASS*		▶ EXAM 2 opens
APR 20	*NO CLASS*		▶ EXAM 2 closes