PHI 312 INTERMEDIATE LOGIC   Spring 2024 Syllabus (Tentative: Subject to Revision)

WEEK ONE	TUE 30 JAN	THU 01 FEB	chapters 1 & 2	Preliminaries
	discussion problems		chapter 1: 1, 2ab, 4, 6, 7	
WEEK TWO	TUE 06 FEB	THU 08 FEB	chapters 3 & 4	Turing machines
	discussion problems		chapter 2: 3, 4, 5, 9, 13	
	HW1 due THU 08 FEB		chapter 1: 2c, 3, 5; chapter 2: 6a, 10	
WEEK THREE	TUE 13 FEB	THU 15 FEB	chapter 5	Abacus computability
	discussion problems		chapter 3: 1, 3, 5, 6 / chapter 4: 1	
WEEK FOUR	TUE 20 FEB	THU 22 FEB	chapter 6	Recursive functions
	discussion problems		chapter 6: 1, 3a, 6, 7, 8	
	HW2 due THU 22 FEB		chapter 3: 2, 4 / chapter 4: 2, 3, 4	
WEEK FIVE	TUE 27 FEB	THU 29 FEB	chapter 7	Recursive relations
	discussion problems		chapter 7: 2, 3, 4, 8, 10	
WEEK SIX	TUE 05 MAR	THU 07 MAR	chapter 8	Universal machine
	HW3 due TUE 05 MAR		chapter 6: 2, 3b, 4, 5, 9	
	discussion problems		chapter 8: 1, 3, 5, 7, 9	

SPRING BREAK

WEEK SEVEN	TUE 19 MAR	THU 21 MAR	chapters 9 & 10	First-order logic
	HW4 due TUE 19 MAR		chapter 7: 1, 5, 6, 7, 9	
	discussion problems		chapter 8: 1, 3, 5, 7, 9	
WEEK EIGHT	TUE 26 MAR	THU 28 MAR	chapters 12 & 13	Model theory
	discussion problems		chapter 9: 2, 3, 8 / chapter 10: 2, 3	
	HW5 due THU 28 MAR		chapter 8: 2, 4, 6, 8, 10	
WEEK NINE	TUE 02 APR	THU 04 APR	chapter 14	Proof theory
	discussion problems		chapter 10: 4, 5, 7, 10ab, 10cd	
WEEK TEN	TUE 09 APR	THU 11 APR	chapter 15	Arithmetization
	HW6 due TUE 09 APR		chapter 9: 9 / chapter 10: 8, 10f, 13	
	discussion problems		chapter 12: 1, 2, 5, 7, 9	
WEEK ELEVEN	TUE 16 APR	THU 18 APR	chapter 16	Representability
	discussion problems		chapter 13: 2 / chapter 14: 1, 2, 3, 4	
	HW7 due	THU 18 APR	chapter 12: 3, 4, 6 / chapter 14: 7, 8	
WEEK TWELVE	TUE 23 APR	THU 25 APR	chapters 17 & 18	Incompleteness
	discussion problems		chapter 15: 3, 5 / chapter 16: 1, 2, 3	

READING PERIOD

LAST (DOUBLE) ASSIGNMENT due DEAN'S DATE TUE 07 MAY
                chapter 15: 2, 7 / chapter 16: 8, 9, 12
                chapter 17: 1, 2, 3, 7, 8