

# Introduction to Logic

Professor	Lecture	Office Hour
John Morrison jmorrison@barnard.edu	304 Barnard Hall TH 11:00-12:15	326A Milbank 12:30-1:30

## Textbook

We'll be using *Language, Proof and Logic* by Barwise & Etchemendy. Many of the homework assignments must be completed on-line using the accompanying software. Because the software license is not transferable you'll need a new copy of the textbook.

## Grade

There will be three exams, each worth 30% of your final grade. The remainder of your grade will be determined by the percentage of homework assignments submitted on time (i.e. by the start of the next class). For example, if you complete nineteen of the twenty-two assignments on time, your homework grade will be eighty-six percent. All homework assignments, whether completed using the software or not, should be sent to: introductionlogic@gmail.com.

Date	Chapter	Reading	Homework
9/7	T Introduction	p. 1-10	#1-10 on p.8-10
9/9	H <b>No Class</b> due to Rosh Hashanah		No homework
9/14	T Atomic Sentences	1.1-1.4	1.2-1.5
9/16	H Logic of Atomic Sentences	2.1, 2.2	2.2, 2.6, 2.8-2.13
9/21	T Logic of Atomic Sentences	2.3-2.5	2.17-2.20, 2.24-2.27
9/23	H Boolean Connectives	3.1-3.7	3.2, 3.3, 3.6, 3.7
9/28	T Logic of Boolean Connectives	4.1	4.2, 4.4-4.7
9/30	H Logic of Boolean Connectives	4.2-4.4	4.12-4.14, 4.20, 4.21, 4.27, 4.28
10/5	T <b>First Exam</b>		No homework
10/7	H Methods of Proof for Boolean Connectives	5.1-5.3	5.1, 5.5, 5.7, 5.17, 5.18
10/12	T Formal Proofs and Boolean Connectives	6.1, 6.2	6.3-6.6
10/14	H Formal Proofs and Boolean Connectives	6.3-6.5	6.9, 6.10, 6.18, 6.19, 6.28, 6.29
10/19	T Conditionals	7.1-7.2	7.1, 7.10, 7.12, 7.13
10/21	H Logic of Conditionals	8.1, 8.2, 8.4	8.18-8.21, 8.44, 8.48
10/26	T Introduction to Quantifiers	9.1-9.3	9.1, 9.2
10/28	H Introduction to Quantifiers	9.4	9.5, 9.6
11/2	T <b>No Class</b> due to Election Day		No homework
11/4	H Introduction to Quantifiers	9.5, 9.6	9.9, 9.13, 9.14
11/9	T <b>Second Exam</b>		No homework
11/11	H Logic of Quantifiers	10.1-10.4	10.9, 10.11, 10.16, 10.22, 10.24
11/16	T Multiple Quantifiers	11.1-11.3	11.4, 11.5, 11.6, 11.9, 11.11, 11.17
11/18	H Multiple Quantifiers	11.4, 11.5, 11.8	11.20, 11.39
11/23	T Methods of Proof for Quantifiers	12.1, 12.2	No homework
11/25	H <b>No Class</b> due to Thanksgiving		No homework
11/30	T Methods of Proof for Quantifiers	12.3, 12.4	12.4, 12.5, 12.16-12.18
12/2	H Methods of Proof for Quantifiers	13.1, 13.2	13.2-13.4, 13.11, 13.12, 13.17
12/7	T Formal Proofs and Quantifiers	13.3, 13.5	13.23, 13.33, 13.35, 13.43, 13.45
12/9	H More about Quantifiers	14.1, 14.2	14.3, 14.10, 14.11, 14.12
12/21	T <b>Third Exam</b>		