

INTRODUCTION TO LOGIC

(COURSE SYLLABUS)

<i>Class:</i>	<i>Class hours: 3</i>	<i>Time: T. TH.</i>
<i>Section: 01</i>	<i>Credit hours: 3</i>	<i>Class room:</i>

Mashhad Al-Allaf

B.A., M.A., and Ph.D. in Philosophy: Concentration on Modern Philosophy: Science and Metaphysics.

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Office hours: Before or after class and by appointment.

Text Book: A Concise Introduction to Logic, by Hurley, Eighth edition, Wadsworth, 2002.

Course Description:

Logic is implied in every field of knowledge, the (*logy*) refers to logic, whether in Religion as in Theology, or in Matter as in Geology, or in Method as in Methodology.

This course is designed to present the student with a solid introduction to logical thinking and critical analysis. Since arguments are basic units of thinking, thus emphasis will be placed on them. However, logic's main concern is not only the type and structure of these arguments, but also the validity of our reasoning through these arguments. By knowing the validity and soundness we will be able to identify, analyze, and evaluate arguments in scientific language and everyday language. The non-valid arguments usually called Fallacies, studying these fallacies will enhance and demonstrate our ability of critical thinking. By discussing these subjects we will be covering the formal logic.

Since our modern life dominated by the achievement and application of science, therefore we will cover the inductive logic too.

Studying the Methodology of science is basically studying the logic of science or applied logic.

Course Requirements:

1-Class attendance and participation is mandatory: Students should arrive at class having carefully studied the assigned text and prepared to discuss it.

2- Complete all reading assignments and homework.

3- Take two exams on course material.

4- Weekly quizzes.

5- every day absence minus two points (-2).

6- every missing homework minus two points (-2), No late assignment.

Grading Scale:

Exam # 1:	40%	91-100 = A	
Exam # 2:	40%	87-90 =B+	80-86 =B
		70-79 =C	
Quizzes, participation, attendance	20%	60-69 =D	
		59 and below=F	

Make-up Exams and Late Papers:

Make-up exams will only be given in cases of a *documented* illness or personal crisis. If you are too ill to take the exam, then you will need to present verifiable documentation from a licensed healthcare professional. The same rule applies to late papers and assignments.

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<u>DATE</u>	<u>READING/ACTIVITY</u>	<u>PAGE #</u>
August 27 T	<i>Class introduction and Policies.</i>	-----
29 TH	Arguments, Premises, and Conclusions....	1-31
September, 3T	Deduction and Validity	31-44
5 TH	Induction and Cogency	44-59
10 T	Language and Meaning	72-86
12 TH	Definitions	87-94
17 T	Definitions: Techniques and criteria	94-110
19 TH	Informal Fallacies	111-130
24 T	Fallacies of Weak Induction	130-147
26 TH	Fallacies of Presumption and Ambiguity	147-170
October, 1 T	Movie, Discussion, and Review	-----
3 TH	<u>First Exam.</u>	-----
8 T	Categorical Propositions	188-199
10 TH	Modern Square of Opposition	199-204
15 T	Conversion, Obversion, and Contraposition	204-214
17 TH	Traditional Square of Opposition	214-223
22 T	Solving Problems and Discussion	-----
24 TH	Translating Ordinary Language into Categorical	230-241
29 T	Categorical Syllogism and	242- 249
31 TH	Rules	261-269
November, 5 T	<u>Second Exam.</u>	-----
7 TH	Propositional Logic, and Truth Functions	287-298
12 T	Truth Function	298-303
14 TH	Natural Deduction	348-353
19 T	Natural Deduction	353-359
21 TH	Discussion	-----
26 T	Thanksgiving, Holiday, No Class.	-----
28 TH	Rules of Implications I	355-359
December, 3 T	Rules of Implications II	359-364
5 TH	Solving Problems	-----
10 T	Discussion and Review.	-----
12 TH	<u>Final Exam.</u>	-----