

**Introduction to Logic (ILOG)
CTY Course Syllabus**

Day	Session	Focus	Activities
Day 1 Monday	Morning	<ol style="list-style-type: none"> 1. Introductions/Introduction to Course 2. Pre-Test 3. Arguments (Identifying Premises/Conclusions) 	<ol style="list-style-type: none"> 1. Introductions 2. Pre-Assessment 3. Watch/Discuss Argument Clinic 4. Game with Premise/Conclusion Indicator Words 5. Hurley Exercises 1.1 I
	Afternoon	<ol style="list-style-type: none"> 1. Arguments vs. Non-Arguments 2. Deductive vs. Inductive Arguments 3. Opinions vs. Arguments 	<ol style="list-style-type: none"> 1. Hurley 14-23 2. Student presentations on the different types of non-arguments 3. Explain difference between inductive and deductive arguments 4. Rant papers
	Evening	<ol style="list-style-type: none"> 1. Rant papers 2. Read about validity/soundness 	<ol style="list-style-type: none"> 1. Work on rant papers with TA 2. Hurley 41-44, 52-57
Day 2 Tuesday	Morning	<ol style="list-style-type: none"> 1. Validity/Soundness/Truth 	<ol style="list-style-type: none"> 1. Discuss rant papers 2. Explanation of Validity and Soundness 3. Hurley Exercises 1.4 I, V 4. Students work in groups coming up with different combinations of valid arguments 5. Explanation of different types of deductive arguments 6. Students gave examples of different types of deductive arguments
	Afternoon	<ol style="list-style-type: none"> 1. Invalidity 	<ol style="list-style-type: none"> 1. Explanation of counterexample method 2. Students given invalid argument forms and told to create invalid arguments with them 3. Hurley Exercises 1.5 I
	Evening	<ol style="list-style-type: none"> 1. <i>Euthyphro</i> 	<ol style="list-style-type: none"> 1. Students read and discussed <i>Euthyphro</i> as a group

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Day 3 Wednesday	Morning	<ol style="list-style-type: none"> 1. Inductive Arguments (Strength/Cogency) 2. Argument by Analogy 	<ol style="list-style-type: none"> 1. Explanation of inductive arguments, Strength and cogency 2. Students gave examples of different types of cogent/uncogent arguments 3. Hurley 1.4 II 4. Explanation of argument by analogy 5. Read and discuss Paley's Design Argument
	Afternoon	<ol style="list-style-type: none"> 1. Argument by Analogy (cont.) 	<ol style="list-style-type: none"> 1. Students debate Design Argument 2. Hurley 1.4 III 3. Logic Puzzle
	Evening	<ol style="list-style-type: none"> 1. Informal Fallacies 2. <i>Apology</i> 	<ol style="list-style-type: none"> 1. Hurley 110-138 (Groups will focus on particular fallacies to present) 2. Students read and discuss <i>Apology</i>
Day 4 Thursday	Morning	<ol style="list-style-type: none"> 1. <i>Apology</i> 2. <i>Euthyphro/Apology</i> Discussion 3. Informal fallacies 	<ol style="list-style-type: none"> 1. Logic Puzzle 3 2. Students discuss <i>Apology</i> 3. Discuss possible paper topics 4. Work on critical papers 5. Students developed skits on the different fallacies and other groups guessed which fallacies had been committed 6. Played Name That Fallacy
	Afternoon	<ol style="list-style-type: none"> 1. Informal Fallacies 	<ol style="list-style-type: none"> 1. Work on critical papers 2. Worksheet on fallacies 3. Read "Love is a Fallacy" 4. Played Name That Fallacy
	Evening	<ol style="list-style-type: none"> 1. Critical papers 2. Informal Fallacies 	<ol style="list-style-type: none"> 1. Finish writing critical papers 2. Hurley 184-198
Day 5 Friday	Morning	<ol style="list-style-type: none"> 1. Categorical Propostions 2. Traditional Square of Opposition 3. Venn Diagrams 	<ol style="list-style-type: none"> 1. Discuss critical papers 2. Explanation of categorical propostions, Traditional Square of Opposition 3. Hurley Exercises 4.5 I 1-8, 4.3 I 1-8 4. Reviewed fallacies
	Afternoon	<ol style="list-style-type: none"> 1. <i>Twelve Angry Men</i> 	<ol style="list-style-type: none"> 1. Watch film (Students assigned a particular juror) and discuss fallacies committed

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Sunday Study Session	Evening	1. Review	1. Review and study time for first exam
Day 6 Monday	Morning	1. Review for exam 2. Exam	1. Final review 2. Took exam on all material covered in week 1 3. Hurley 244-251 4. Logic Puzzle
	Afternoon	1. Categorical Syllogisms 2. Venn Diagrams to Test Validity	1. Explain Venn diagrams and categorical syllogisms 2. Hurley 5.2 I 3. Students come up with categorical syllogisms and test validity using Venn Diagrams
	Evening	1. Begin propositional logic	1. Hurley reading 280-300 2. Selected Hurley Exercises from 6.1 – 6.3 3. Prepare presentation on the different logical operators
Day 7 Tuesday	Morning	1. Syntax and Translation	1. Students give presentations on operators 2. Explain syntax and translation 3. Hurley 6.1 II, 6.2 III
	Afternoon	1. Plato's <i>Crito</i> 2. King's "Letter From a Birmingham Jail" (excerpt)	1. Reading and discussion of Plato's <i>Crito</i> and its relation to King's views on civil disobedience 2. Response paper to <i>Crito</i> and King's arguments
	Evening	1. <i>Crito</i> Papers 2. Truth-tables	1. Finished <i>Crito</i> papers 2. Hurley 303-312 3. Individual Conferences about handling propositional logic
Day 8 Wednesday	Morning	1. Truth tables for basic operators, main operators 2. Computing truth-values for compound statements	1. Explanation of basic truth tables 2. Hurley 6.2 I, III
	Afternoon	1. Review truth tables and translation	1. Review material to ensure that everyone is caught up 2. Hurley exercises continued

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	Evening	1. Truth Tables (Direct and Indirect)	1. Hurley 302-312 2. Conferences with students about handling propositional logic
Day 9 Thursday	Morning	1. Truth Tables	1. Logic Puzzle 7 2. Explain tables, classifying statements, etc. 3. Hurley 6.3 I, II
	Afternoon	1. Russell – “The Value of Philosophy”	1. Reading and Discussion 2. Basic lecture/discussion introducing philosophy as a discipline 3. Logic Puzzle 8
	Evening	1. Derivations (Inference rules)	1. Hurley 338-353 2. Work on presentations of inference rules
Day 10 Friday	Morning	1. Derivations (Inference Rules)	1. Logic Puzzle 9 2. Explain how to set-up derivations 3. Students present on 8 basic inference rules 4. Hurley 7.2 III
	Afternoon	1. <i>Rear Window</i>	1. Film and Discussion
Sunday Study Session	Evening	1. <i>Rear Window</i> discussion 2. Derivations (Replacement Rules)	1. Hurley 358-373
Day 11 Monday	Morning	1. Derivations	1. Logic Puzzle 10 2. Explain derivations with replacement rules 3. Hurley 7.4 III
	Afternoon	1. Debate preparation 2. Derivations (cont.)	1. Introduce students to the issue of human cloning 2. Explanation of debate 3. Hurley 7.4 III (cont.)
	Evening	1. Conditional and Indirect Proof, Logical Truths	1. Hurley 379-389
Day 12 Tuesday	Morning	1. Derivations (CP, IP, and Logical Truths)	1. Logic Puzzle 11 2. Explain CP, IP, Logical Truths 3. Hurley 7.6 I and 7.7

Day	Session	Focus	Activities
	Afternoon	1. Predicate Logic (Translation)	<ol style="list-style-type: none"> 1. Explain shortcomings of propositional logic 2. Explain quantifiers 3. Hurley 8.1
	Evening	1. Review	<ol style="list-style-type: none"> 1. Question and Answer with TA and I 2. Study time
Day 13 Wednesday	Morning	1. Post-Assessment Exam	<ol style="list-style-type: none"> 1. Exam 2. Go over answers 3. Logic Puzzle 12
	Afternoon	1. Debate preparation	1. Library research on human cloning
	Evening	1. Debate preparation	1. Develop arguments for debate
Day 14 Thursday	Morning	1. Debate preparation	<ol style="list-style-type: none"> 1. Develop final arguments and positions 2. Logic Puzzle 13
	Afternoon	1. Debate	1. Debate
	Evening	1. Logic Game	1. Logic Jeopardy
Day 15 Friday	Morning	1. Wrap-up	1. Goodbyes