

# HUM 2510 Logic Study Guide

Topics covered (areas of particular importance in **bold**), with corresponding §§ from both editions of Copi & Cohen's *Essentials of Logic*, and the two most recent editions of their *Introduction to Logic*:

## WEEK 1: Introductory

	<i>Essntls</i> , 1/e	<i>Essntls</i> , 2/e	<i>Intro</i> , 11/e	<i>Intro</i> , 12/e
Subject matter of logic	§1.1	§1.1	§1.1	§1.1
<b>Propositions</b>	§1.2	§1.2	§1.2	§1.2
Premises and conclusions	§1.3	§1.3	§1.3	§1.3
Recognizing arguments	§1.4	§1.5	§1.5	§2.2
Deduction and validity	§1.6	§1.6	§1.7	§1.4
<b>Validity and truth</b>	§1.7	§1.7	§1.9	§1.5

## WEEKS 2–6: Traditional Logic

	<i>Essntls</i> , 1/e	<i>Essntls</i> , 2/e	<i>Intro</i> , 11/e	<i>Intro</i> , 12/e
Categorical (A, E, I & O) propositions	§3.2	§3.2	§5.2	§§6.2–3
<b>Quality/quantity; distributed/undistributed</b>	§3.3	§§3.2; 3.4	§5.3	§6.4
Representation by Venn diagram	§3.9	§3.3	§5.7	§6.8
Kinds of opposition	§3.4	§3.6	§5.4	§6.5
Conversion, obversion, contraposition	§3.8	§3.8	§5.5	§6.6
<b>Syllogisms: major, minor &amp; middle; mood &amp; figure</b>	§4.1	§4.1	§6.1	§7.1
Venn diagram method of testing validity	§4.3	§4.3	§6.3	§7.3
Rules of the syllogism/formal fallacies	§4.4	§4.4	§6.4	§7.4
Excess terms	§5.2	§5.2	§7.2	§8.2
Translation into standard form	§5.3	§5.3	§7.3	§8.3
Parameters	§5.4	§5.4	§7.4	§8.4

## WEEKS 7–13: Symbolic Logic

	<i>Essntls</i> , 1/e	<i>Essntls</i> , 2/e	<i>Intro</i> , 11/e	<i>Intro</i> , 12/e
<b>Truth functional connectives: <math>\bullet</math>, <math>\vee</math>, <math>\sim</math>, <math>\supset</math>, <math>\equiv</math></b>	§6.2, 6.4–6	§6.2	§8.2	§9.2
<b>Tautology, contradictory, contingent</b>	§6.6	§6.4	§8.5	§9.8
Logical equivalence: $\stackrel{\top}{\equiv}$	§6.6	§6.4	§8.6	§9.9
<b>Assessing validity with truth tables</b>	§6.7	§6.5	§8.4	§9.6
<b>Abbreviated truth table methods</b>	§7.4	§6.6 B	§9.3	§10.6
Assessing validity with truth trees	—	§A.1	—	—
<b>Formal proof of validity: rules of inference</b>	§7.2	§7.2	§9.1	§10.1
<b>Rules of replacement</b>	§7.3	§§7.3–4	§9.2	§10.2
Conditional & Indirect Proof	—	§§7.5–6	—	§10.5
<b>First order propositions</b>	§§8.1–2	§§8.2 A–B	§§10.1–2	§§11.2–3
<b>Categorical propositions in quantified logic</b>	§8.3	§8.2 B	§10.3	§11.4
Propositions inexpressible in categorical logic	§8.5	§8.2 C	§10.6	§11.7

## WEEKS 14–15: Informal Logic

	<i>Essntls</i> , 1/e	<i>Essntls</i> , 2/e	<i>Intro</i> , 11/e	<i>Intro</i> , 12/e
<b>Fallacies of relevance</b>	§2.2	§2.2	§4.2	§§5.3–4
<b>Fallacies of presumption</b>	§2.3	§2.3	§4.3	§5.5
<b>Fallacies of ambiguity</b>	§2.4	§2.4	§4.4	§5.6
<b>Paraphrasing &amp; diagramming arguments</b>	§1.9	§1.9	§1.4	§2.1
Complex argumentation	§1.10	§1.10	§1.10	§2.4