

# A Concise Introduction to Logic

*A Concise Introduction to Logic* is an introduction to formal logic suitable for undergraduates taking a general education course in logic or critical thinking. This text takes the unique approach of teaching logic through intellectual history; the author uses examples from important and celebrated arguments in philosophy to illustrate logical principles. The text also includes a basic introduction to findings of advanced logic. As indicators of where the student could go next with logic, the book closes with an overview of advanced topics, such as the axiomatic method, set theory, Peano arithmetic, and modal logic.

## A CONCISE INTRODUCTION TO LOGIC

Open SUNY Textbooks

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# MODULES

### Part I: Propositional Logic

#### Developing a Precise Language

“If...then...” and  
“It is not the case that...”

#### Good Arguments

#### Proofs

“And”

#### Conditional Derivations

“Or”

#### Reductio ad Absurdum

“... if and only if ...”,  
Using Theorems

#### Summary of Propositional Logic

### Part II: First Order Logic

#### Names and predicates

“All” and “some”

#### Reasoning with quantifiers

#### Universal derivation

Relations, functions, identity,  
and multiple quantifiers

#### Summary of first order logic

### Part III: A Look Forward

#### Some advanced topics in logic



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