

# COURSE DETAIL

## REASONING

**Country**

United Kingdom - Scotland

**Host Institution**

University of St Andrews

**Program(s)**

University of St Andrews

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Philosophy

**UCEAP Course Number**

120

**UCEAP Course Suffix****UCEAP Official Title**

REASONING

**UCEAP Transcript Title**

REASONING

**UCEAP Quarter Units**

8.00

**UCEAP Semester Units**

5.30

## Course Description

This course introduces the essential concepts and techniques of critical reasoning, formal propositional logic, and basic predicate logic. Among the central questions are these: what distinguishes an argument from a mere rhetorical ploy? What makes an argument a good one? How can we formally prove that a conclusion follows from some premises? In addressing these questions, students also cover topics such as argumentative fallacies, ambiguity, argument forms and analyses, induction versus deduction, counterexamples, truth-tables, truth-trees (tableaux), natural deduction, and quantification.

### Language(s) of Instruction

English

### Host Institution Course Number

PY1012

### Host Institution Course Title

REASONING

### Host Institution Course Details

[https://www.st-andrews.ac.uk/subjects/modules/catalogue/?code=PY1012&academic\\_y...](https://www.st-andrews.ac.uk/subjects/modules/catalogue/?code=PY1012&academic_y...)

### Host Institution Campus

### Host Institution Faculty

School of Psychology and Neuroscience

### Host Institution Degree

### Host Institution Department

### Course Last Reviewed

2024-2025

[Print](#)