

# COURSE DETAIL

## INTRODUCTION TO ARTIFICIAL INTELLIGENCE

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

119

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

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

**UCEAP Transcript Title**

INTRODUCTION TO AI

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

The course introduces the basic concepts in search and knowledge representation as well as several sub-areas of artificial intelligence. It focuses on covering the essential concepts in AI. The course covers Turing test, blind search, iterative deepening, production systems, heuristic search, A\* algorithm, minimax and alpha-beta procedures, predicate and first-order logic, resolution refutation, non-monotonic reasoning, assumption-based truth maintenance systems, inheritance hierarchies, the frame problem, certainty factors, Bayes' rule, frames and semantic nets, planning, learning, natural language, vision, and expert systems and LISP.

## Language(s) of Instruction

English

## Host Institution Course Number

CS3243

## Host Institution Course Title

INTRODUCTION TO ARTIFICIAL INTELLIGENCE

## Host Institution Course Details

<https://nusmods.com/courses/CS3243/introduction-to-artificial-intelligence>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Computer Science

## Course Last Reviewed

2023-2024

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