

COURSE DETAIL

ARTIFICIAL INTELLIGENCE

Country

United Kingdom - England

Host Institution

University of London, Royal Holloway

Program(s)

University of London, Royal Holloway

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

140

UCEAP Course Suffix**UCEAP Official Title**

ARTIFICIAL INTELLIGENCE

UCEAP Transcript Title

ARTIFICAL INTELLIGENCE

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces students to the basic principles, methods, and techniques of AI to provide the foundations for more advanced courses in this area. It explores the approaches in the field by referring to the wider historical context in which the AI vision was set and will further motivate the content to be taught by presenting existing and potential applications. Topics include first principles, including the role of first-order logic for knowledge representation, computational reasoning and problem solving systems, the use of search as a capability for exploring alternative solutions, and how AI systems use knowledge to plan and learn from first principles. Students develop intelligent systems by assembling capabilities to concrete computational problems; understand the role of knowledge representation, problem solving, and learning in intelligent-system engineering; and appreciate the role of problem solving, in wide applications that require a basic understanding of human intelligence from a computational perspective.

Language(s) of Instruction

English

Host Institution Course Number

CS2910

Host Institution Course Title

ARTIFICIAL INTELLIGENCE

Host Institution Campus

Royal Holloway, University of London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Computer Science

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