

COURSE DETAIL

THEORETICAL ASTROPHYSICS AND COSMOLOGY

Country

United Kingdom - England

Host Institution

University College London

Program(s)

Summer at University College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics Earth & Space Sciences

UCEAP Course Number

103

UCEAP Course Suffix

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UCEAP Official Title

THEORETICAL ASTROPHYSICS AND COSMOLOGY

UCEAP Transcript Title

ASTROPHYS&COSMOLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides introduces the main concepts and body of evidence that underlie our current understanding of the origin, structure, and evolution of the Universe. It offers exposure to the fundamental principles of special and general relativity and their significance to the evolution of the Cosmos. Topics such as stellar interiors, classification, and evolution along with galaxy dynamics are discussed in some detail. The course culminates with descriptions of current cosmological models and recent developments of the much discussed dark matter and dark energy mysteries, and what they entail to the evolution of the Universe.

Language(s) of Instruction

English

Host Institution Course Number

ISSU0066

Host Institution Course Title

THEORETICAL ASTROPHYSICS AND COSMOLOGY

Host Institution Course Details

<https://www.ucl.ac.uk/prospective-students/summer-school/modules/astrophysics-c...>

Host Institution Campus

Host Institution Faculty

Center for Languages and International Education

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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