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
S

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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