COURSE DETAIL

COSMOLOGY
Country United Kingdom - Scotland
Host Institution University of Edinburgh
Program(s) University of Edinburgh
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 105
UCEAP Course Suffix
UCEAP Official Title COSMOLOGY
UCEAP Transcript Title COSMOLOGY
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description
The course introduces the fundamental concepts of modern cosmology. The meaning of time and space in an expanding universe are discussed, and the dynamics of the expansion, starting from a hot Big Bang. Observational evidence includes the abundance of light elements, the microwave background, and large-scale structure. The initial conditions for the expansion require careful tuning, leading to the theory of inflation. The standard model of cosmology is introduced and elements such as dark matter and dark energy are explained.

Language(s) of Instruction
English

Host Institution Course Number
PHYS10101

Host Institution Course Title
COSMOLOGY

Host Institution Course Details
https://www.ed.ac.uk/global/study-abroad/course/index.php?browseby=subject&brow...

Host Institution Campus
Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department
Physics and Astronomy

Course Last Reviewed
2019-2020

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