# **COURSE DETAIL**

# EARLY UNIVERSE

## **Country**

United Kingdom - England

#### **Host Institution**

University of Manchester

## Program(s)

University of Manchester

#### **UCEAP Course Level**

**Upper Division** 

# **UCEAP Subject Area(s)**

**Physics** 

## **UCEAP Course Number**

153

### **UCEAP Course Suffix**

#### **UCEAP Official Title**

**EARLY UNIVERSE** 

## **UCEAP Transcript Title**

**EARLY UNIVERSE** 

# **UCEAP Quarter Units**

4.00

#### **UCEAP Semester Units**

2.70

## **Course Description**

In this course, students learn how to formulate the linear theory of structure formation in the CDM model, obtain solutions in simple model cases of a one component universe; explain the problems of big bang cosmology and the way to solve them in inflationary theory; calculate basic cosmological parameters in inflationary slow roll models; indicate the relations of the Cosmic Microwave Background Radiation and cosmological parameters; and discuss the evidence for an accelerating universe and the possible role of dark energy.

## Language(s) of Instruction

English

#### **Host Institution Course Number**

PHYS40772

#### **Host Institution Course Title**

**EARLY UNIVERSE** 

## **Host Institution Campus**

University of Manchester

# **Host Institution Faculty**

Physics

# **Host Institution Degree**

# **Host Institution Department**

Print