

# COURSE DETAIL

## INTRODUCTION TO GENERAL RELATIVITY

**Country**

Singapore

**Host Institution**

Nanyang Technological University

**Program(s)**

Nanyang Technological University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

140

**UCEAP Course Suffix****UCEAP Official Title**

INTRODUCTION TO GENERAL RELATIVITY

**UCEAP Transcript Title**

GENERAL RELATIVITY

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course introduces the essentials of Einstein's general theory of relativity: its basic concepts, mathematical formulation and observational consequences. Students develop an understanding of the geometrical structure and physical implications of this theory. Topics include the geometrical framework of general relativity and analytical tools used across subjects in theoretical physics and some branches of mathematics. The course requires students to take prerequisites.

## Language(s) of Instruction

English

## Host Institution Course Number

PH4508

## Host Institution Course Title

INTRODUCTION TO GENERAL RELATIVITY

## Host Institution Course Details

[https://wis.ntu.edu.sg/webexe/owa/aus\\_subj\\_cont.main](https://wis.ntu.edu.sg/webexe/owa/aus_subj_cont.main)

## Host Institution Campus

## Host Institution Faculty

School of Physical and Mathematical Sciences

## Host Institution Degree

## Host Institution Department

Physics

## Course Last Reviewed

2025-2026

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