

COURSE DETAIL

SPACETIME PHYSICS

Country

Iceland

Host Institution

University of Iceland

Program(s)

University of Iceland

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

146

UCEAP Course Suffix**UCEAP Official Title**

SPACETIME PHYSICS

UCEAP Transcript Title

SPACETIME PHYSICS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

The course provides an introduction to the theory of Special Relativity and some basic concepts of General Relativity. Topics include the need for Special Relativity (light propagation and key historical experiments); Einstein's principle of relativity, time dilation and length contraction; the geometry of spacetime (Minkowski space); the Lorentz transformation and causality; kinematics, dynamics and electromagnetism in Special Relativity; and a brief introduction to General Relativity.

Language(s) of Instruction

English

Host Institution Course Number

EDL205G

Host Institution Course Title

SPACETIME PHYSICS

Host Institution Course Details

<https://ugla.hi.is/kennsluskra/index.php?tab=nam&chapter=namskeid&id=09212820270>

Host Institution Campus

Host Institution Faculty

Faculty of Physical Sciences

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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