

COURSE DETAIL

FATIGUE

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

158

UCEAP Course Suffix**UCEAP Official Title**

FATIGUE

UCEAP Transcript Title

FATIGUE

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course describes the physical mechanisms behind fatigue, and the methods that are used in design against fatigue. This course covers the following topics: cyclic deformation and crack initiation; fracture mechanisms; fracture mechanics treatment of fatigue cracks; fatigue crack growth in ductile and brittle materials; short fatigue cracks; contact fatigue; fatigue and environment, corrosion fatigue and high temperature fatigue; life estimates and dimensioning against fatigue; fatigue testing.

Language(s) of Instruction

English

Host Institution Course Number

FMEN30

Host Institution Course Title

FATIGUE

Host Institution Course Details**Host Institution Campus**

Engineering

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Engineering- Mechanics

Course Last Reviewed

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