

## 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 Campus**

Engineering

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

Engineering- Mechanics

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