

COURSE DETAIL

DEFORMABLE SOLID MECHANICS I

Country

France

Host Institution

University of Bordeaux

Program(s)

University of Bordeaux

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mechanical Engineering

UCEAP Course Number

106

UCEAP Course Suffix**UCEAP Official Title**

DEFORMABLE SOLID MECHANICS I

UCEAP Transcript Title

DEFORM SOLD MECH 1

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course establishes the concepts of deformable solid mechanics. Students learn about finite transformations, their tensors, and their constraints. Infinitesimal transformations are treated as a particular case. The laws of linear behavior of anisotropic and isotropic materials are established, as well as the necessary equations used in the modeling of a structure in order to predict its behavior.

Language(s) of Instruction

French

Host Institution Course Number

EM7MS200

Host Institution Course Title

MÉCANIQUE DES SOLIDES DÉFORMABLES I

Host Institution Campus

INSTITUT NATIONAL POLYTECHNIQUE DE BORDEAUX

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

ENSEIRB-MATMECA

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