

# COURSE DETAIL

## ENGINEERING FLUID MECHANICS

**Country**

Spain

**Host Institution**

Carlos III University of Madrid

**Program(s)**

Carlos III University of Madrid

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering

**UCEAP Course Number**

107

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

ENGINEERING FLUID MECHANICS

**UCEAP Transcript Title**

FLUID MECHANICS ENG

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course provides an introduction of fluid mechanics including mass conservation law, momentum conservation law, and energy conservation law. Other topics include: the continuum hypothesis; variables of interest; hydrostatics; fluid flow kinematics; conservation equations for fluid volumes and control volumes; dimensional analysis; flow regimes; external flows.

\*Pre-requisites: Calculus 1 and 2, Physics 1 and 2, Linear Algebra, Writing and Communication Skills, Programming, Thermal Engineering, and Machine Mechanics. Texts: Antonio Crespo Martínez. Mecánica de Fluidos. Thomson. Frank M. White. Fluid Mechanics. McGraw Hill. Arcos Vera Coello, Carlos Martínez Bazán, Antonio L. Sánchez Pérez, Immaculada Iglesias Estradé. Ingeniería Fluidomecánica. Paraninfo. 2012

## Language(s) of Instruction

Spanish

## Host Institution Course Number

13979

## Host Institution Course Title

INGENIERÍA FLUIDOMECÁNICA

## Host Institution Course Details

## Host Institution Campus

Escuela Politécnica Superior. (Leganés):

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Ingeniería Térmica y Fluidos

## Course Last Reviewed

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