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. Ingenieria Fluidomecanica. Paraninfo. 2012

Language(s) of Instruction
Spanish

Host Institution Course Number
13979

Host Institution Course Title
INGENIERÍA FLUIDOMECÁNICA

Host Institution Campus
Escuela Politécnica Superior. (Leganés):

Host Institution Faculty

Host Institution Degree

Host Institution Department
Ingeniería Térmica y Fluidos

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