

# COURSE DETAIL

## INTRODUCTION TO IMAGE PROCESSING

**Country**

France

**Host Institution**

University of Bordeaux

**Program(s)**

University of Bordeaux

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

120

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

INTRODUCTION TO IMAGE PROCESSING

**UCEAP Transcript Title**

IMAGE PROCESSING

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This course is an introduction to digital image processing and analysis. Students benefit from an overview of image processing methods (histogram restoration, convolution filters, mathematical morphology, segmentation) and image analysis methods (pattern recognition, identification, etc.). During the course students: learn how to manage 2D, 3D, and animated images; understand human perception and image acquisition; discover image segmentation, registration, and analysis; concrete implementation through existing tools or simple script development; study algorithms to obtain features from images (histogram, filters, descriptors).

### Language(s) of Instruction

English

### Host Institution Course Number

4TTV414U

### Host Institution Course Title

INTRODUCTION TO IMAGE PROCESSING

### Host Institution Campus

UNIVERSITÉ DE BORDEAUX

### Host Institution Faculty

Collège des Sciences et Techniques

### Host Institution Degree

### Host Institution Department

Informatique

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