

# COURSE DETAIL

## 3D COMPUTER VISION

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Engineering Computer Science

**UCEAP Course Number**

133

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

3D COMPUTER VISION

**UCEAP Transcript Title**

3D COMPUTER VISION

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course covers mathematical concepts and algorithms that allow society to recover the 3D geometry of camera motions and the structures in its environment. Topics include projective geometry, camera model, one-/two-/three-/N-View reconstructions and stereo, generalized cameras and non-rigid structure-from-motion. The course requires students to take prerequisites.

## Language(s) of Instruction

English

## Host Institution Course Number

CS4277

## Host Institution Course Title

3D COMPUTER VISION

## Host Institution Course Details

<https://nusmods.com/courses/CS4277/3-d-computer-vision>

## Host Institution Campus

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Computer Science

## Course Last Reviewed

2025-2026

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