

# COURSE DETAIL

## DEVELOPMENTAL BIOLOGY

**Country**

Ireland

**Host Institution**

Trinity College Dublin

**Program(s)**

Trinity College Dublin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

138

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

DEVELOPMENTAL BIOLOGY

**UCEAP Transcript Title**

DEVELOPMENTAL BIO

**UCEAP Quarter Units**

4.00

**UCEAP Semester Units**

2.70

## Course Description

This course consists of a series of lectures, tutorials, and laboratory sessions that deals with a range of developmental topics emphasizing a molecular approach to understanding the principles of animal development. A number of animal model systems is dealt with and the contribution of each to our overall understanding of development discussed. Specific topics include: developmental genetics: the identification of genes that regulate development in *Drosophila* and vertebrates; positional determination: how the body plan of the embryo is laid down including the role of homeo-box genes; induction: the role of cell and tissue interactions and signaling cascades; developmental neurobiology: positional determination within the vertebrate central nervous system, neuronal diversity and axonal guidance, and neural crest cells and development of the peripheral nervous system. Other topics include limb development, organogenesis, and evolutionary developmental biology.

## Language(s) of Instruction

English

## Host Institution Course Number

ZOU33050

## Host Institution Course Title

DEVELOPMENTAL BIOLOGY

## Host Institution Course Details

<https://www.tcd.ie/students/orientation/visiting-exchange/module-directory/Zool...>

## Host Institution Campus

Trinity College Dublin

## Host Institution Faculty

## Host Institution Degree

**Host Institution Department**

Zoology

**Course Last Reviewed**

2022-2023

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