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 Campus

Trinity College Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department Zoology

<u>Print</u>