

# COURSE DETAIL

## ADVANCED BIOSTATISTICS

**Country**

Ireland

**Host Institution**

University College Dublin

**Program(s)**

Irish Universities, University College Dublin

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics

**UCEAP Course Number**

103

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

ADVANCED BIOSTATISTICS

**UCEAP Transcript Title**

ADV BIOSTATISTICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

Topic in this course include random variation, populations and random samples, descriptive statistics, binomial and normal distributions, hypothesis testing and confidence intervals, sample size calculations, comparison of two populations, hypothesis testing and confidence intervals, independent and paired samples, analysis of categorical data. Chi-square tables, estimation and hypothesis testing for a population proportion, comparing proportions in two or more populations using independent samples, experimental design, validity and efficiency, experimental unit and pseudoreplication, randomization, factorial designs, introduction to linear regression and correlation, one-way ANOVA, two-way ANOVA, and partitioning sums of squares.

## Language(s) of Instruction

English

## Host Institution Course Number

STAT40430

## Host Institution Course Title

ADVANCED BIOSTATISTICS

## Host Institution Campus

UC Dublin

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Statistics & Actuarial Science

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