

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

Topics 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 Course Details

Host Institution Campus

UC Dublin

Host Institution Faculty

Host Institution Degree

Host Institution Department

Statistics & Actuarial Science

Course Last Reviewed

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