

COURSE DETAIL

DESIGN AND ANALYSIS OF EXPERIMENTS

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Statistics Health Sciences

UCEAP Course Number

108

UCEAP Course Suffix**UCEAP Official Title**

DESIGN AND ANALYSIS OF EXPERIMENTS

UCEAP Transcript Title

DESIGN/EXPERIMENTS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces a general statistical approach to the design of laboratory and similar experiments. It covers how to analyze the resulting data, including statistical quality control, in order to assure accuracy and precision so that reliable and reproducible conclusions can be drawn concerning the relations being studied. Along with the statistical and methodological content of the course, a number of concrete and frequently used pharmaceutical applications (designed experiments) are presented. Examples include clinical trials (including crossover and repeated measures designs), toxicity testing, bio-equivalence analyses, assay validation, and design and analysis of epidemiological surveys.

Language(s) of Instruction

English

Host Institution Course Number

SFKBIF102U

Host Institution Course Title

DESIGN AND ANALYSIS OF EXPERIMENTS

Host Institution Campus

Host Institution Faculty

Faculty of Health and Medical Sciences

Host Institution Degree

Bachelor

Host Institution Department

Department of Pharmacy

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