

COURSE DETAIL

MOLECULAR ECOLOGY AND EVOLUTION

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

139

UCEAP Course Suffix**UCEAP Official Title**

MOLECULAR ECOLOGY AND EVOLUTION

UCEAP Transcript Title

MOL ECOL & EVOLUTN

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

This course reviews the basic theory and understanding of the most important molecular genetic methods used in modern ecological and evolutionary research projects. The course is mainly based on practical learning through wet labs (DNA extraction, PCR, DNA sequencing) and computer exercises (editing of DNA sequences that you obtain during the course, phylogeny, and various programs for analysis of DNA sequences) and leads to mastery of different methods used to detect and analyze variation at gene, genome and protein levels within and between individuals, populations, and species. Emphasis is also placed on improving one's ability to assimilate and critically review scientific articles based on molecular genetic data and analyses. The course ends with a research project that is carried out in small groups.

Language(s) of Instruction

English

Host Institution Course Number

BIOR25

Host Institution Course Title

MOLECULAR ECOLOGY AND EVOLUTION

Host Institution Campus

Lund

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

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