

COURSE DETAIL

SENSORY BIOLOGY

Country

Sweden

Host Institution

Lund University

Program(s)

Lund University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biological Sciences

UCEAP Course Number

141

UCEAP Course Suffix**UCEAP Official Title**

SENSORY BIOLOGY

UCEAP Transcript Title

SENSORY BIOLOGY

UCEAP Quarter Units

12.00

UCEAP Semester Units

8.00

Course Description

The course reviews vision and other types of photoreception, olfaction, taste, hearing, equilibrium, mechanoreception, pressure reception, electroreception, magnetoreception, and senses for temperature and heat radiation. All senses are studied comparatively across the animal kingdom. A range of methods in physiology, ethology, and human psychophysics are taught and used during the course. The course is divided into sections covering different levels of organization. The sections include: the molecular machinery of sensory receptors; the design and function of sensory organs; neuroanatomy, neural processing, and integration of sensory information; and the role of sensory information in behavior and in the adaptation of animals to their environment (sensory ecology). Towards the end of the course, each student carries out a major practical project specializing in one area of sensory biology. The project results are discussed at a full-day symposium organized at a field station.

Language(s) of Instruction

English

Host Institution Course Number

BIOR20

Host Institution Course Title

SENSORY BIOLOGY

Host Institution Campus

Science

Host Institution Faculty

Host Institution Degree

Host Institution Department

Biology

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