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 Course Details
https://www.biology.lu.se/education/courses/advanced-level-courses/sensory-biol...

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biology

Course Last Reviewed
2021-2022

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