COURSE DETAIL

HUMAN AND ANIMAL BIOLOGY
Country Netherlands
Host Institution Utrecht University – University College Utrecht
Program(s) University College Utrecht
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 109
UCEAP Course Suffix
UCEAP Official Title HUMAN AND ANIMAL BIOLOGY
UCEAP Transcript Title HUMAN & ANIMAL BIOL
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

After completing this course students can:

1. explain the major concepts of human and animal physiology, development, and evolution.
2. describe the contemporary issues related to these general biological topics.
3. obtain basic skills in, scientific writing, oral presentations, group work, and laboratory work.

Content

This course focuses on the many intriguing aspects of human biology. Examples from the animal kingdom are used to illustrate the context of human physiology, development, and evolution. The course builds upon secondary high school higher level biology. The textbook functions as basis however additional content is added throughout the course. The main topics discussed and studied are:

- Human and animal structure (morphology and anatomy) and function (physiology).
- And, related to the above-mentioned topic, investigating how evolution accounts for diversity of animal body forms and strategies that animals use to cope with their environments.

In addition, general academic skills are trained through a variety of assignments.

The program is divided in three content units:

Unit 1. Homeostasis, Hormones and Adaptation. Based on textbook chapters 40-44. This includes

- The structural organization of the animal body at tissue, organ, and organ system level
- Chemical signaling in animals
- The digestive system
- The circulatory and respiratory system
- The excretory system

Unit 2. Animal Diversity, Reproduction and Development. Based on textbook chapters 22, 24, 32 and 34 (partly), and 45-46 (completely). This includes:

- Animal reproduction
- Evolution, animal diversity and animal development

Unit 3. Defense and Neural Integration. Based on textbook chapters 47-50. This includes:

- The innate and adaptive immune system
- The neural system and neural integration
- The sensory system
- Movement in animals

Language(s) of Instruction
English

Host Institution Course Number
UCSCIBIO13

Host Institution Course Title
HUMAN AND ANIMAL BIOLOGY

Host Institution Course Details

https://osiris-student.uu.nl/#/onderwijscatalogus/extern/cursus

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biology

Course Last Reviewed
2022-2023

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