

SYLLABUS

Name: *Animal migrations (25-BI-S2-W-AM-AN)*

Name in Polish: Migracje zwierząt

Name in English: Animal migrations

Information on course:

Course offered by department: Faculty of Biological Sciences

Course for department: Faculty of Biological Sciences

Default type of course examination report:

Grading

Language:

English

Short description:

Prerequisites regarding knowledge, skills, and social competences for the course/module:

BSC in Biology or related sciences.

Student's own work:

- reading scientific publications: 15h
- preparing homework/project/presentation: 25h
- preparing a raport: 20h
- exam and test preparation: 15h

Description:

Educational aims:

Extending the knowledge of animal migration, including models of diversification, demography and environmental adaptation.

Course content:

Lectures:

- types and modes of animal migration.
- migratory strategies.
- migration versus dispersal - differences and similarities.
- characteristics of physical and ecological barriers.
- energetics of migration.
- modes of navigation.
- directions of migration.
- migrations by land, water and air.
- animal migrations in the past.
- impact of the evolution of natural conditions on animal migrations and dispersions.

Seminars:

- the role of humans in animal migration.
- studying animal migrations.
- the importance of migration and dispersal in shaping the contemporary picture of the world's fauna.
- discussion of case studies: migration versus dispersal

Bibliography:

Mandatory and recommended reading list:

Feldhamer A. G., Drickamer C. L., Vessey H. S., Merritt F. J., Krajewski C. 2007. Mammalogy. Adaptation, Diversity, Ecology. The John Hopkins University Press.

Gauthreaux S. A. Jr. 1981. Animal Migration. Orientation and Navigation. Elsevier

Hoare B. 2009. Animal Migration. Marshall Edition

Milner-Gulland E. J. (eds) 2011. Animal Migration: A Synthesis. Oxford Academic

Learning outcomes:

Intended learning outcomes

Student:

K_W01

has in-depth and well-established knowledge of the interpretation of natural phenomena influencing the dispersal and migration of animals nowadays and in the past;

K_W02

characterises the complex interdisciplinary relationships and mechanisms governing the phenomena of animal migration and dispersal;

K_U03

critically analyses and selects information in the preparation of studies appropriate to the biological sciences;

K_U06

collects and interprets empirical data, draws appropriate and creative conclusions on the basis of the results;

K_K01

analyses the knowledge acquired in biological sciences and feels the need to constantly improve it.

Assessment methods and assessment criteria:

Assessment methods for the intended learning outcomes:

- Lectures:
- test.
- Seminars:
- preparing presentation/poster,

- continuous control of attendance and progress,
- engagement in discussions, writing a report.

Credit requirements for individual components of the course/module:

- Lectures:
- test (written), minimum 51%
- Seminars:
- evaluation of student's attendance, engagement and progress,
- presentation, poster, discussion (individual or in groups),
- providing a report.

Course credits in various terms:

<without a specific program>

| Type of credits | Number | First term | Last term |
|--|--------|------------|-----------|
| European Credit Transfer System (ECTS) | 4 | 2023/24-L | |