

PW12a - Field methods - opis przedmiotu

Informacje ogólne	
Nazwa przedmiotu	PW12a - Field methods
Kod przedmiotu	13.9-WB-Biol2P-Fi.met.-S16
Wydział	Wydział Nauk Biologicznych
Kierunek	Biologia
Profil	ogólnoakademicki
Rodzaj studiów	pierwszego stopnia z tyt. licencjata
Semestr rozpoczęcia	semestr zimowy 2017/2018

Informacje o przedmiocie	
Semestr	5
Liczba punktów ECTS do zdobycia	5
Typ przedmiotu	obowiązkowy
Język nauczania	angielski
Sylabus opracował	dr hab. Joerg Boehner, prof. UZ

Formy zajęć					
Forma zajęć	Liczba godzin w semestrze (stacjonarne)	Liczba godzin w tygodniu (stacjonarne)	Liczba godzin w semestrze (niestacjonarne)	Liczba godzin w tygodniu (niestacjonarne)	Forma zaliczenia
Wykład	15	1	9	0,6	Zaliczenie na ocenę
Ćwiczenia	15	1	9	0,6	Zaliczenie na ocenę

Cel przedmiotu

Students should understand the main factors underlying the abundance, distribution and dynamics of animal populations. They should learn the most important methods of detecting and counting prominent animal groups (e.g. birds) as well as analysing their spatial distribution. They should develop a good understanding of the most important terms of quantitative field work in English. Students will gain the ability to develop a detailed proposal concerning one self-chosen project about the number and distribution of an animal species or group of species in a defined area; to select the most appropriate of all the methods available for the respective research question asked; to discuss their own project results in the context of the current knowledge about the abundance and distribution of animals. Students should be able to work in groups; exchange effectively ideas and own research results with other groups; present project work in front of class.

Wymagania wstępne

Basic knowledge of ecology (as taught in an introductory course)

Zakres tematyczny

Methods of detecting animal species. Methods of trapping animals. Methods of counting: full count and sample count; point, transect and area count; importance of time of day and time of year; using behaviour as indicators; using maps for field work; identifying (bird) territories. Analysing count data; identifying different types of spatial distribution.

Metody kształcenia

Lecture, multimedia presentations, practical field work, seminar work (literature)

Efekty uczenia się i metody weryfikacji osiągnięcia efektów uczenia się

Opis efektu	Symbole efektów	Metody weryfikacji	Forma zajęć
The student is able to use course-relevant terminology in English	K1A_W35	projekt	Ćwiczenia
The student is able to work in groups	K1A_K01	projekt	Ćwiczenia
The student is able to independently plan and conduct a project focussing on aspects of counting organisms as well as critically analyse the results	K1A_U17	projekt	Ćwiczenia
The student is able to analyse course-specific literature in Polish and English	K1A_U13	projekt	Ćwiczenia
The student is able to employ the most important methods of field work, focussing on the investigation of species composition and abundance of organisms	K1A_W22	projekt	Ćwiczenia
The student is able to present results of own work and other sources in front of class	K1A_U36	projekt	Ćwiczenia

Warunki zaliczenia

Participation in project group work and final presentation of project results. Grades depend on quality of group work and presentations: 5.0 - excellent work and presentation,

meets highest standard; 4.0 - good work and presentation, minor flaws; 3.0 - acceptable work and presentation, must be improved in several important aspects; 2.0 - not acceptable.

Literatura podstawowa

1. Henderson, P.A. (2003): Practical Methods in Ecology. Blackwell.
2. Sutherland, W.J, (2006): Ecological Census Techniques. Cambridge University Press.
3. Bibby, C.J., N.D. Burgess & D.A. Hill (1992): Bird Census Techniques. Academic Press.

Literatura uzupełniająca

Articles from scientific journals

Uwagi

Zmodyfikowane przez dr hab. Joerg Boehner, prof. UZ (ostatnia modyfikacja: 03-05-2017 10:15)

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