KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego

UNIA EUROPEJSKA
EUROPEJSKI
FUNDUSZ SPOŁECZNY

Course title	ECTS code
Biology	7.2.0510

Name of unit administrating study

Faculty of Biology

Studies

faculty	field of study		
Wydział Chemii	Ochrona środowiska	type	pierwszego stopnia
		form	stacjonarne
		specialty	Podstawowa
		specialization	Podstawowa

Teaching staff

dr hab. Joanna N. Izdebska; dr hab. Leszek Rolbiecki; dr Sławomira Fryderyk; mgr Karolina Cierocka; mgr Ariadna Jankowska-Romaniec; dr Paulina Kozina; dr Joanna Dzido

Forms of classes, the realization and number of hours

Forms of classes

Laboratory classes, Lecture

The realization of activities

classroom instruction

Number of hours

Lecture: 45 hours, Laboratory classes: 60 hours

ECTS credits

9
Classes - 105 h
consultations - 45 h
student's own work - 75 h
TOTAL: 225 h - 9 pkt. ECTS

The academic cycle

2022/2023 winter semester

Type of course

obligatory

Language of instruction

polish

Teaching methods

- conducting experiments
- multimedia-based lecture

Form and method of assessment and basic criteria for eveluation or examination requirements

Final evaluation

- Graded credit
- Course credit
- Examination

Assessment methods

Assessment methods
Lecture - semester I: credit
Lecture - semester II: written test examination with closed and open questions.
Exercises - establishing a credit score on the basis of the partial grades obtained during the semester.

The basic criteria for evaluation

	The basic criteria for evaluation or exam requirements Lecture • The examination covers the issues from the lecture • The written test examination is graded according to the percentage (“UG Study Regulations”) Exercises • Written tests with closed questions (passes): include the level of mastery of the material of the exercises in written form; • Written tests with open tasks - include material from several completed exercises, • Practical skills test - covers the recognition of organisms from different systematic groups known during the exercises, • Exercise credit score: passes are awarded points; the sum of points earned is converted into a final grade by a percentage (“UG Study Regulations”); written tests and practical credit are assessed by a percentage (“UG Study Regulations”); the average of grades from passes, written tests and practical tests is the final grade.

Method of verifying required learning outcomes

Required courses and introductory requirements

A. Formal requirements

none

B. Prerequisites

none

Aims of education

Aims of education

1. Getting to know the basics of structure, biology and classification of living organisms.
2. Understanding of biological processes conditioning life at different levels of its organization.
3. Ability to identify and classify different groups of organisms.

Course contents

Course contents

A. Issues of the lecture.

Levels of biological organization (molecular, organism, population and species). Diversity of modern groups within Procaryota and Eucaryota - systematic review and biological characteristics, metabolism, reactivity, coordination and reproduction of organisms. Main issues related to inheritance and evolution, including evolutionary processes of species formation and extinction. Biodiversity of Polish flora and fauna, with particular emphasis on endangered, protected and bioindicating species.

B. Issues of the exercisse

Review of the most important systematic groups of organisms, taking into account different construction plans.

Bibliography of literature

Bibliography of literature

Literature required to pass the course

A.1. wykorzystywana podczas zajęć

Campbell N.A., Reece J.B., Urry L.A., Cain M.L., Wasserman S.A., Minorsky P.V., Jackson R.B. 2014. Biologia. Rebis, Poznań.
Gorczyński T. [red.]. 1986. Ćwiczenia z botaniki. PWN, Warszawa.
Moraczewski J., Riedel W., Sołtyńska M., Umiński T. 1974. Ćwiczenia z zoologii bezkręgowców, PWN,Warszawa.

A.2. studiowana samodzielnie przez studenta

Błaszak C. [red.] 2009. Zoologia, t.1. Bezkręgowce. PWN, Warszawa.
Błaszak C. [red.] 2011. Zoologia, t. 2. Stawonogi. cz. 1. PWN, Warszawa.
Błaszak C. [red.] 2012. Zoologia, t. 2. Stawonogi. cz. 2. PWN, Warszawa.
Błaszak C. [red.] 2015. Zoologia t. 3. Szkarłupnie - płazy. cz. 1. PWN, Warszawa.
Błaszak C. [red.] 2020. Zoologia t. 3. Ssaki. Cz. 3. PWN, Warszawa.
Boczek J., Brzeski M., Kropczyńska-Linkiewicz D. 2000. Wybrane działy zoologii. Podręcznik dla studiujących ochronę środowiska. PWN, Warszawa.
Jura C. Bezkręgowce. 2007. PWN, Warszawa.
Grodziński Z. 1979. Zoologia Strunowce i Przedstrunowce. PWN, Warszawa.
Szweykowska A., Szweykowski J. 2008. Botanika. PWN, Warszawa.

Extracurricular readings

B. Literatura uzupełniająca

Kunicki-Goldfinger W. J. H. 1980. Podstawy biologii od bakterii do człowieka. PWN, Warszawa.
Encyklopedia biologiczna. T.I-XIII. OPRES, Kraków, 1998.
Gajewski W. 1992. Genetyka. PWRiL, Warszawa.
Głowaciński Z. [red.] 2001. Polska czerwona księga zwierząt. Kręgowce. PWRiL, Warszawa.
Jasiński A. 1984. Zootomia kręgowców. PWN, Warszawa.
Malinowski E.1983. Anatomia roślin. PWN, Warszawa.
Podbielkowski Z. 1990. Rozmnażanie się roślin. WSiP, Warszawa.
Rajski A. 1994. Zoologia. T. I i II. PWN, Warszawa.
Villee C.A., Solomon E.P., Berg L.R., Martin D.W. 2007. Biologia. Multico, Warszawa.
Zawistowski S. 1990. Zarys histologii. PZWL, Warszawa.

The learning outcomes (for the field of study and specialization)	**Knowledge**
	Skills
	Social competence

Contact

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