COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Environment		
ACADEMIC UNIT	Department of Environment		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	102Y	SEMESTER	2
COURSE TITLE	Animal Biology		

INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*	WEEKLY TEACHING HOURS	CREDITS
Lectures	5	
Field trips & laboratory	1	
Total credits		6
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Compulsory
PREREQUISITE COURSES:	-
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	For exchange students, English literature is proposed and examinations are given in English.
COURSE WEBSITE (URL)	https://www.env.aegean.gr/all_courses/animal-biology/

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

With the successful completion of the course students will:

- have acquired basic knowledge of the main animal groups and their properties, with a stress on groups and properties which are important in environmental science
- comprehend the general principles of animals functioning as ecosystem components
- be able to use tools and instruments used for the identification of major animal groups
- recognise the principles of taxonomy and of biological nomenclature
- have acquired the knowledge background necessary to expand their education into the study of human activity impacts on animal biodiversity and animal function in ecosystems.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology	*Project planning and management*
Adapting to new situations	*Respect for difference and multiculturalism*
Decision-making	*Respect for the natural environment*
Working independently	*Showing social, professional and ethical responsibility and sensitivity to gender issues*
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*……*
Production of new research ideas	*Others…*
	…….

Search for, analysis and synthesis of data and information, with the use of the necessary technology
Adapting to new situations
Working in an international environment
Working in an interdisciplinary environment
Respect for the natural environment
Criticism and self-criticism
Production of free, creative and inductive thinking

(3) SYLLABUS

Lectures as follows:

1. Natural Selection & Evolution
2. Taxonomy & Nomenclature of living organisms
3. Protozoa
4. Porifera
5. Cnidaria
6. Platyhelminthes
7. Rotifers, Nematodes
8. Annelida
9. Arthropods (intro), Trilobites
10. Chelicerates
11. Crustacea
12. Uniramia, Insects (intro)
13. Insects
14. Mollusca
15. Echinodermata
16. Chordates (intro)
17. Amphibians, Reptiles
18. Birds, anatomy and function of terrestrial vertebrates
19. Mammals, food types and mammal adaptations for food intake and digestion
20. Principles of animal behaviour

Laboratory exercises:

1. Field trip & practical: plankton, freshwater invertebrates and birds
2. Practical: demonstration – animal life (preserved specimens, models)

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	Face-to-face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	Video projector, Powerpoint, Word & Acrobat files, email.
TEACHING METHODS *The manner and methods of teaching are described in detail.* *Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS*	

Activity	*Semester workload*
Lectures/tutorials	65
Field trips	5
Laboratory practicals	6
Study and analysis of bibliography	90
Course total	***166***

STUDENT PERFORMANCE EVALUATION *Description of the evaluation procedure* *Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other* *Specifically-defined evaluation criteria are given, and if and where they are accessible to students.*	Language of evaluation: Greek Interim test (multiple choice question quiz) (10%) Written examination (90%)

(5) ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- *Miller, S. 2018. Ζωολογία. BROKEN HILL PUBLISHERS LTD [Ελληνική μετάφραση]*
- *Hickman, C.P. κ.α. 2020. Ζωική Ποικιλότητα-Βασικές Αρχές Ζωολογίας με Εργαστηριακό Οδηγό. BROKEN HILL PUBLISHERS LTD [Ελληνική μετάφραση]*
- *Sadava, D. κ.α.. 2022. Βιολογία Φυτών / Ζώων - Οικολογία. ΕΚΔΟΣΕΙΣ Α.ΠΑΠΑΖΗΣΗΣ ΜΟΝΟΠΡΟΣΩΠΗ ΙΔΙΩΤΙΚΗ ΚΕΦΑΛΑΙΟΥΧΙΚΗ ΕΤΑΙΡΕΙΑ [Ελληνική μετάφραση]*
- *Hickman, C.P. κ.α.. 2015. Ζωολογία: ολοκληρωμένες αρχές – Τόμος ΙΙ. ΥΤΟΡΙΑ ΕΚΔΟΣΕΙΣ Μ. ΕΠΕ. [Ελληνική μετάφραση]*
- *Παφίλης, Π. (επιμέλεια) 2020. Η Πανίδα της Ελλάδας-Βιολογία και Διαχείριση της Άγριας Πανίδας, BROKEN HILL PUBLISHERS LTD*

Lecture notes provided.

Indicative Internet sources:
http://www.mhhe.com/biosci/pae/zoology/hickman11/student_index.mhtml
http://users.uoa.gr/~alegakis/index_el_files/PDFfiles/EEPFChersArthrop.pdf
http://animaldiversity.ummz.umich.edu/