Uchwała nr 7/I/2013
Senatu Uniwersytetu Jagiellońskiego
z dnia 30 stycznia 2013 r.

w sprawie: **utworzenia na Wydziale Biologii i Nauk o Ziemi UJ stacjonarnych studiów drugiego stopnia o profilu ogólnoakademickim na kierunku studiów Ecology and Evolution, od roku akademickiego 2013/2014 oraz wprowadzenia efektów kształcenia dla kierunku studiów Ecology and Evolution na drugim stopniu studiów o profilu ogólnoakademickim, od roku akademickiego 2013/2014:**

Na podstawie art. 11 oraz art. 62 ust. 1 ustawy z dnia 27 lipca 2005 r. – Prawo o szkolnictwie wyższym (Dz. U. z 2012 r. poz. 572), w związku z rozporządzeniem Ministra Nauki i Szkolnictwa Wyższego z dnia 2 listopada 2011 r. w sprawie krajowych ram kwalifikacji dla szkolnictwa wyższego, w związku z § 24 pkt 7) i pkt 22) Statutu UJ oraz w związku z Zarządzeniem nr 31 Rektora UJ z 7 maja 2012 r. w sprawie zasad tworzenia i likwidacji studiów wyższych, studiów podyplomowych oraz kursów dokształcających w Uniwersytecie Jagiellońskim stanowi się, co następuje:

§ 1

Na Wydziale Biologii i Nauk o Ziemi UJ tworzy się stacjonarne studia drugiego stopnia o profilu ogólnoakademickim na kierunku studiów Ecology and Evolution, od roku akademickiego 2013/2014.

§ 2

1. Uchwala się od roku akademickiego 2013/2014 efekty kształcenia dla kierunku studiów Ecology and Evolution na drugim stopniu studiów o profilu ogólnoakademickim.
2. Efekty kształcenia dla kierunku studiów Ecology and Evolution na drugim stopniu studiów o profilu ogólnoakademickim określa załącznik nr 1 do niniejszej uchwały.

§ 3

Uchwała wchodzi w życie z dniem podjęcia.

Faculty of Biology and Earth Sciences
Course of studies: **Ecology and Evolution**
Area of education: **natural sciences**
Level of education: **Post bachelor master's studies**
Educational profile: **general academic**

Learning outcomes for the course of studies	**Description of projected learning outcomes** MA graduate:	**Reference to the learning outcomes for the area of natural sciences**
	KNOWLEDGE	
K_W01	interprets the complexity of ecological processes and phenomena in nature based on empirical evidence from various disciplines	P2A_W01, P2A_W02
K_W02	has knowledge of the methodology of biological sciences with particular emphasis on evolutionary ecology and makes a critical analysis of relevant data using mathematical and statistical methods	P2A_W02
K_W03	possesses essential knowledge of environmental science and sciences necessary to understand the relationships, dependencies and functioning of organisms in the environment	P2A_W03
K_W04	possesses in-depth knowledge of ecology, evolution and selected specializations of biological sciences, through which the student recognises the relationships and dependencies at different functioning levels of the natural environment	P2A_W04
K_W05	knows existing and recognizes new global threats to the natural environment	P2A_W04
K_W06	possesses in-depth knowledge of the dependencies and mechanisms of evolution	P2A_W04
K_W07	knows and keeps track of important scientific achievements and scientific developmental trends in ecology, evolution and molecular biology	P2A_W05
K_W08	recognizes dynamic development of the biological sciences and the emergence of new trends and research disciplines	P2A_W05
K_W09	indicates the most important trends in the development of biological sciences in the field of ecology and evolution	P2A_W05
K_W10	knows the basic and advanced methods of modeling the course of biological phenomena and processes using mathematical, statistical and computing methods	P2A_W06
K_W11	knows the rules of planning research, verifying research hypotheses, research techniques and tools used in ecology and molecular biology	P2A_W07
K_W12	has knowledge of the ways of acquiring and accounting research and implementation projects in the field of biological sciences	P2A_W08
K_W13	is familiar with the basic rules of safety and health at work as well as ergonomics	P2A_W09
K_W14	knows, understands and applies the intellectual property rights and copyright law	P2A_W10
K_W15	knows the general rules for foundation and development of individual entrepreneurship using ecological concepts	P2A_W11
	SKILLS	
K_U01	employs advanced techniques and research tools specific to different fields of ecology	P2A_U01
K_U02	is able to search various sources for scientific information in English and take advantage of it	P2A_U02, P2A_U07

K_U03	uses specialized ecological and biological terminology in English	P2A_U02
K_U04	demonstrates skills of critical analysis and selecting information especially from electronic sources	P2A_U03
K_U05	able to plan and carry out research tasks and expertise under the guidance of an academic supervisor	P2A_U04, P2A_U01
K_U06	uses advanced statistical tools and numerical techniques appropriate for solving problems in the field of ecology and related sciences	P2A_U05
K_U07	uses expertise to interpret collected empirical data and to draw appropriate conclusions	P2A_U06, P2A_U07
K_U08	formulates correct conclusions and judgments based on collected empirical data	P2A_U07
K_U09	is able to prepare a scientific presentation using various types of verbal and multimedia communication	P2A_U08
K_U10	has the ability to write a research paper in English presenting their own research and scientific discoveries	P2A_U09
K_U11	has the ability to make speeches in English on specific issues of ecology, evolution and related fields	P2A_U10
K_U12	independently plans his/her professional or scientific/academic career	P2A_U11
K_U13	has English language skills of level B2+ (in accordance with Common European Framework of Reference for Languages)specializing in biological sciences	P2A_U12, P2A_U02
SOCIAL COMPETENCES		
K_K01	understands the need for learning throughout life/lifelong learning, is able to inspire and organize the learning process of others	P2A_K01
K_K02	knows how to work in a team assuming different roles, can schedule the work especially when it comes to dividing the responsibilities and time management	P2A_K02, P2A_K08
K_K03	is able to hear out, accept or reject the opinion of other team members, especially subordinates	P2A_K02
K_K04	is able to prioritize appropriately for the task set by oneself or others	P2A_K03
K_K05	is able to be self-critical and to draw conclusions based on self-analysis	P2A_K03
K_K06	identifies and resolves the dilemmas associated with the work performed in accordance with ethical principles	P2A_K04
K_K07	consistently applies and disseminates the principle of strict interpretation of biological phenomena and processes in research and practical activities based on empirical data	P2A_K04
K_K08	has a habit of using recognized sources of scientific information and principles of critical reasoning in solving practical problems	P2A_K05
K_K09	exhibits responsibility for assessing the risks arising from the use of research techniques and creating safe work environment taking into account the principles of ergonomics	P2A_K06
K_K10	regularly updates on biological knowledge and information about its practical applications	P2A_K07, P2A_K01
K_K11	is able to think and act in an entrepreneurial manner	P2A_K08