

Course name:**SWINE BREEDING, BEHAVIOUR AND WELFARE**

ECTS	5
Course status	complementary
Course final assesement/evaluation of outcomes	exam
Prerequisites	basic agricultural knowledge, basic knowledge in animal husbandry and animal science

Main field of study:**ANIMAL SCIENCE**

Profile of study	General-academic
The code of studies (education level)	SI (bachelor)
Semester of studies	summer
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Animal Sciences
Name of department offering the course	Department of Department of Genetics, Animal Breeding and Ethology
Course coordinator	DSc. Jacek Nowicki, Associate Professor

Learning outcomes of the course:

Symbol of outcome	Description of learning outcome	Reference to	
		main field of study outcomes	discipline#
KNOWLEDGE – student knows and/or understands:			
SBW_W1	basic rules of the pig farming taking into account a high level of animal welfare	ZOO1_W01 ZOO1_W09 ZOO1_W11 ZOO1_W17	RZ
SBW_W2	the criteria for assessing the welfare level of pigs	ZOO1_W10 ZOO1_W11 ZOO1_W17	RZ
SBW_W3	the indicators of reduced welfare in pigs	ZOO1_W10 ZOO1_W11 ZOO1_W17	RZ
SBW_W4	conditions and factors affecting the welfare of pigs	ZOO1_W10 ZOO1_W11 ZOO1_W17	RZ
SKILLS – student is able to:			
SBW_U1	assess the welfare of pigs on the basis of available criteria	ZOO1_U09 ZOO1_U17	RZ

SBW_U2	interpret the behaviour of pigs in different housing conditions	ZOO1_U03 ZOO1_U09 ZOO1_U17	RZ
SBW_U3	analyze the microclimate parameters and prevent deterioration of the animal welfare	ZOO1_U09 ZOO1_U17 ZOO1_U18	RZ

SOCIAL COMPETENCE- student is ready to:

SBW_K1	creatively and constantly develop the ability to prevent negative events occurring on farms which decrease the pig welfare	ZOO1_K04 ZOO1_K06	RZ
SBW_K2	take care of own safety and the people working with during the work in the pig farm	ZOO1_K09 ZOO1_K10	RZ

Teaching contents:

Lectures	30	hours
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Topics of the lectures	<p>Terms used in pig production</p> <p>Rules of care and rearing piglets</p> <p>Essentials of feeding</p> <p>Housing systems for pigs taking into account adaptation possibilities</p> <p>Fattening and slaughter value evaluation methods</p> <p>Essentials of reproduction</p> <p>Natural behaviour of pigs</p> <p>Advances in the study of cognition, behavioural priorities and emotions</p> <p>Pigs and humans interactions - the impact on productive results</p> <p>Welfare of pigs during transport and slaughter</p>
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Accomplished learning outcomes	SBW_W1, SBW_W2, SBW_W3, SBW_W4
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Verification methods, rules and criteria of outcome assessment	Exam - choice test. 50% of correct answers must be provided to pass the exam. The share of the lecture grade in the final grade is 50%
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Classes	15	hours
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Topics of the classes	<p>Welfare of pigs in the farrowing environment – assessment methods for piglets and sows</p> <p>Behavioral tests of maternal responsiveness of sows</p> <p>Housing the fattening pig – the impact on welfare and economic results</p> <p>Behavioural tests of cognition abilities</p> <p>Welfare of gestation and dry sows in different housing systems – methods of evaluation</p>
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Accomplished learning outcomes	SBW_U1, SBW_U2, SBW_U3, SBW_K1, SBW_K2
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Verification methods, rules and criteria of outcome assessment	<i>Passing the exercises, choice test - 50% of correct answers must be provided to pass the exercises. The share of the exercises grade in the final grade is 50%</i>
Seminars	0 hours
Topics of the seminars	
Accomplished learning outcomes	<i>symbol of learning outcomes of the seminars</i>
Verification methods, rules and criteria of outcome assessment	<i>together with participation in the final assessment (in %)</i>

References:

Basic	<ol style="list-style-type: none"> 1. <i>Domestic animal behaviour and welfare</i>, D.M. Broom, A.F. Fraser, CAB International, 2007; 2. <i>Principles of Pig Science</i>, D.J.A. Cole, J. Wiseman and M.A. Varley, Nottingham University Press, 1994 3. <i>The Sow: Improving her efficiency</i>, P.R. English, W.J. Smith and A. MacLean, The Farming Press, 1982
Supplementary	<i>The Welfare of pigs</i> , edited by J.N. Marchant-Forde, Springer, 2009

Structure of learning outcomes:

Discipline: Discipline – animal husbandry and fishery (RZ)	5	ECTS**
		ECTS**

Structure of student activities:

Contact hours	52	hours	2,54	ECTS**
including:				
lectures	30	hours		
classes and seminars	15	hours		
consultations	5	hours		
participation in research	0	hours		
mandatory traineeships	0	hours		
participation in examinations	2	hours		
e-learning	0	hours		ECTS**
student own work	50	hours	2,46	ECTS**

Syllabus valid from the academic year 2021/2022

* where 10 hours of classes = 1 ECTC (in case of 15 h → 2 ECTS)

** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25 - 30 hours of classes

academic discipline code: RZ - animal science and fishery, PB - biological sciences, etc.