



**School of Animal Biosciences**  
Department of Animal Science

2020 - 2021

# STUDY PROGRAM (Semester Program)



Approval

DAS General Assembly: 82nd/28-04-2020

AUA Senate, Session: 570/21-05-2020

## SEMESTER 1 (Winter)

Code	Course Title	ECTS	Hours/Week (Theory+Lab Practicals) (e.g. 3T + 2LP)	Department (that offers the course)	Laboratory Code (that offers the course)
3630	Inorganic Chemistry	5	3+2	Animal Science	17
0565	Physics	5	3+2	Biotechnology	27
0380	Genetics	5	3+2	Biotechnology	6
3695	Agricultural Zoology - Entomology	5	3+2	Crop Science	10
3635	Principles of Cellular and Molecular Biology	6	3+3	Animal Science	2&7&17
3675	Principles of Animal Production	5	3+2	Animal Science	7
0044	English I	2	2T	-	Foreign Languages
<b>Total ECTS</b>		<b>31</b>			

## SEMESTER 2 (Spring)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
3640	Principles of Organic Chemistry	6	4+2	Animal Science	17
3645	Biometry	5	5 $\Theta$	Crop Science	4
3680	Microbiology	5	3+2	Animal Science	2
3485	Principles of Economics Theory	4	4 $\Theta$	Agricultural Economics & Rural Development	36
3330	Introduction to Informatics	5	2+3	Agricultural Economics & Rural Development	35
3685	Botany	5	3+2	Crop Science	26
45	English II	2	2 $\Theta$	-	Foreign Languages
<b>Total ECTS</b>		<b>31</b>			

## SEMESTER 3 (Winter)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
0011	Animal Anatomy and Histology	6	3+3	Animal Science	2
0012	Hydrobiology – Planktology	6	3+3	Animal Science	19
0024	Grasslands Management	5	3+2	Animal Science	17
0016	Principles of Animal Breeding	5	2+3	Animal Science	7
0504	Introduction in the Biochemistry of Animal Organisms	4	2+2	Animal Science	17
0046	English III	2	2T	-	Foreign Languages
		<b>ECTS=26</b>			
<b>Elective (2 out of 3)</b>					
3525	Pests in Stored Agricultural Products & Foods	5	3+2	Crop Science	10
0501	History of Agricultural Science	2	2T	Agricultural Economics & Rural Development	33
0960	Agricultural Extension	3	3T	Agricultural Economics & Rural Development	33
<b>Total ECTS</b>		<b>31-34</b>			

## SEMESTER 4 (Spring)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
0004	Nutritional Physiology of Animals	6	4+2	Animal Science	17
1500	Apiculture - Sericulture	5	3+2	Crop Science	10
2855	Rural Economics and Policy	5	5 T	Agricultural Economics & Rural Development	32
0235	Physiology of Farm Animals	6	3+3	Animal Science	2
3655	Agriculture	4	2+2	Crop Science	9
0047	English IV	2	2 T	-	Foreign Languages
		<b>ECTS= 26</b>			
<b>Elective (2 out of 3)</b>					
0310	Immunology	3	2+1	Animal Science	2 & 7
3615	Didactics-Agricultural Education	3	3 T	Agricultural Economics & Rural Development	33
0503	Climatology	2	2 T	Crop Science	43
<b>Total ECTS</b>		<b>31-34</b>			

## SEMESTER 5 (Winter)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
0625	Feedstuffs & Feedstuffs Technology	6	3+3	Animal Science	17
0375	Methods of Animal Breeding	6	3+3	Animal Science	7
0166	The Physiological Bases of Farm Animal Reproduction and Lactation	4	2+2	Animal Science	7 & 2
0161	Quality and Safety of Animal Food Products	4	4 T	Animal Science & Food Technology	2 & 41 & 7
0996	Marketing of Animal Products	5	5 T	Agricultural Economics & Rural Development	45
0048	English V	2		-	Foreign Languages
		<b>ECTS=25</b>			
<b>Elective (2 out of 3)</b>					
0162	Companion Animals Breeding	3	3 T	Animal Science	7 & 17
0163	Management of Specialized Farms	3	3 T	Animal Science	7 & 17
0003	Agritourism	2	2 T	Agricultural Economics & Rural Development	33
<b>Total ECTS</b>		<b>30-31</b>			

## SEMESTER 6 (Spring)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
0039	Ruminants Nutrition	6	4+2	Animal Science	17
0159	The Physiological Bases of Farm Animal Growth	4	2+2	Animal Science	7
0168	Ichthyology - Benthology	6	3+3	Animal Science	19
0033	Farming of Domestic Non-Ruminants	6	5+1	Animal Science	7
0006	Applications of Biotechnology in Animal Science	4	2+2	Animal Science	2 & 7 & 17
0049	English VI			-	Foreign Languages
		<b>ECTS=26</b>			
<b>Elective (1 out of 3)</b>					
0237	Analytical Toxicology - Xenobiotics	4	2+2	Animal Science	17
3390	Food Chemistry	5	3+2	Food Technology	42
0208	e-Commerce	4	2+2	Agricultural Economics & Rural Development	35
<b>Total ECTS</b>		<b>30-31</b>			

## SEMESTER 7 (Winter)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
2995	Farming of Domestic Ruminants	6	3+3	Animal Science	7
0181	Milk and Meat Technology	5	3+2	Food Technology	5 & 14
0169	Ethology and Welfare of Farm Animals	3	3 T	Animal Science	7
2980	Pharmacology	3	3 T	Animal Science	2
0041	Aquaculture	6	3+3	Animal Science	19
		<b>ECTS=23</b>			
<b>Elective (3 out of 4)</b>					
0227	Introduction to Technical Design (AutoCAD)	2	2 T	Natural Resources Management & Agricultural Engineering	15
0998	Quality and Certification Systems for Agricultural Products	3	3 T	Animal Science	17
2845	Environmental Management and Protection	3	3 T	Crop Science	23
3660	Food Microbiology	5	3+2	Food Technology	41
<b>Total ECTS</b>		<b>31-34</b>			



## SEMESTER 8 (Spring)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
0034	Monogastrics Nutrition	6	3+3	Animal Science	17
0019	Diseases of Farm Animals	6	3+3	Animal Science	2
1510	Design and Organization of Livestock Facilities	4	4T	Natural Resources Management & Agricultural Engineering	15
0036	Production of Aquatic Organisms	6	3+3	Animal Science	19
3570	Nutrition and Public Health	3	3T	Food Technology	42
		<b>ECTS=25</b>			
<b>Elective (2 out of 3)</b>					
0171	Feed Manufacturing Technology	2	2T	Animal Science	17
0630	Rural Sociology	4	4T	Agricultural Economics & Rural Development	33
3401	Milk Technology II - Cheeses	5	3+2	Food Technology	5
<b>Total ECTS</b>		<b>31-34</b>			

## SEMESTER 9 (Winter)

Code	Course Title	ECTS	Hours/Week (T + LP)	Responsible Department	Laboratory Code
1690	Health of Farm Animals	5	3+2	Animal Science	2
3725	Strategic Business Planning	5	5 T	Agricultural Economics & Rural Development	45
0495	Economics in Animal Production	4	4 T	Agricultural Economics & Rural Development	45
0018	Animal Production – Environment	4	4 T	Animal Science	7 & 17 & 19
0167	Nutrition of Aquatic Organisms	4	2+2	Animal Science	19
0226	Precision Technologies in Agriculture	5	3+2	Natural Resources & Agricultural Engineering	11
		<b>ECTS=27</b>			
<b>Elective (2 out of 5)</b>					
0238	Animal Production and Public Health	2	2 T	Animal Science	2
1440	Livestock Production Systems	2	2 T	Animal Science	7
0007	Principles of Human Nutrition	2	2 T	Animal Science	17 & 7
0268	Principles of Animal Embryology	2	1+1	Animal Science	2
0239	Intelligent Systems and Data Mining in Animal Science	2	1+1	Agricultural Economics & Rural Development	35
<b>Total ECTS</b>		<b>31</b>			

SEMESTER 10 (Spring)		
		ECTS
1	Practical Training	10
2	Diploma Dissertation	30
Total ECTS		40

**Laboratory Codes:**

17 Nutritional Physiology & Feeding

19 Applied Hydrobiology

2 Anatomy & Physiology of Farm Animals

7 Animal Breeding & Husbandry