Undergraduate Studies Program Year 2025 – 2026

Department of Animal Science

Approval: *AUA Senate, Session 629/23-07-2025*

Agricultural University of Athens

School of Animal Biosciences

Department of Animal Science

Undergraduate Studies Program

Year 2025 – 2026

APPROVED STUDY PROGRAM – Department of Animal Science (2025-2026)

Course Code	Course Title	Hours	ECTS	Dept
1st Semester				
209	Principles of General & Inorganic Chemistry	5 (3T + 2L)	**5**	ANSC
562	Physics	5 (3T + 2L)	**5**	BIOT
380	Genetics	5 (3T + 2L)	**5**	BIOT
3695	Agricultural Zoology – Entomology	5 (3T + 2L)	**5**	CRSC
3635	Principles of Cellular and Molecular Biology	6 (3T + 3L)	**5**	ANSC
3675	Principles of Animal Production	6 (3T + 3L)	**5**	ANSC
44	English I	2 T	**-**	
		ECTS=	**30**	

2ndSemester				
3640	Principles of Organic Chemistry	6 (4T + 2L)	**6**	ANSC
3655	Agriculture	4 (2T + 2L)	**5**	CRSC
1500	Apiculture – Sericulture	5 (3T + 2L)	**5**	CRSC
3485	Principles of Economics Theory	4T	**4**	AERD
3330	Introduction to Informatics	5 (2T + 3L)	**5**	AERD
3685	Botany	5 (3T + 2L)	**5**	CRSC
45	English II	2T	**-**	
		ECTS=	**30**	

3rd Semester				
11	Animal Anatomy and Histology	5 (3T + 2L)	**6**	ANSC
504	Introduction to the Biochemistry of Animal Organisms	4 (2T + 2L)	**4**	ANSC
12	Hydrobiology – Planktology	6 (3T + 3L)	**6**	ANSC
311	Statistics	4T	**4**	NRAE
46	English III	2T		
Free Electives (2 of 5)				
115	General Viticulture	5 (3T + 2L)	**5**	CRSC
183	Agricultural Machinery (Farm Tractors-Farm Machinery)	5 (3T + 2L)	**5**	NRAE
229	Alternative Crops	5 (3T + 2L)	**5**	CRSC
13	Introduction to Technical Design using AutoCAD	5 (3T + 2L)	**5**	NRAE
210	Principles of Food Engineering	5 (3T + 2L)	**5**	FSHN
		ECTS=	**30**	

4th Semester				
NEW	General & Special Animal Microbiology	5 (3T + 2L)	**5**	ANSC

2855	Rural Economics and Policy	5T	**4**	AERD
326	Statistical Data Analysis using Statistical Packages	3L	**3**	NRAE
235	Animal Physiology	6 (3T + 3L)	**6**	ANSC
47	English IV	2T		
Major Electives (1 of 3)				
310	Immunology	4 (2T + 2L)	**2**	ANSC
327	Bioethics in Agricultural Science	3T	**2**	ANSC
329	Animal Models in Biomedical Science	3 (2T + 1L)	**2**	ANSC
Free Electives (2 of 4)				
2075	Geographic Information Systems	5 (3T + 2L)	**5**	NRAE
2525	Soil Science and Fertilizers	5 (3T + 2L)	**5**	CRSC
3440	Pomology	5 (3T + 2L)	**5**	CRSC
3390	Food Chemistry	5 (3T + 2L)	**5**	FSHN
		ECTS=	**30**	

5th Semester				
625	Feedstuffs & Feedstuffs Technology	6 (3T + 3L)	**5**	ANSC
156	Ecology	4T	**4**	CRSC
166	The Physiological Bases of Farm Animal Reproduction and Lactation	4 (2T + 2L)	**5**	ANSC
24	Grasslands Management	5 (3T + 2L)	**5**	ANSC
48	English V	2T		
Major Electives (2 of 3)				
162	Companion Animals Breeding	3T	**3**	ANSC
296	Fisheries Biology and Management	3 (2T + 1L)	**3**	ANSC
998	Quality and Certification Systems for Agricultural Products	3T	**3**	ANSC
Free Electives (1 of 5)				
3625	Molecular Ecology and Adaptation	5 (3T + 2L)	**5**	BIOT
3210	Microbial Biotechnology	5 (3T + 2L)	**5**	BIOT
2089	Geographical Information Systems in the Environment	5 (2T + 3L)	**5**	NRAE
131	Waste Treatment in Food Industries	5 (3T + 2L)	**5**	FSHN
996	Marketing of Foods of Animal Origin	5T	**5**	AERD
		ECTS=	**30**	

6th Semester				
33	Farming of Domestic non-Ruminants	6 (4T + 2L)	**6**	ANSC
4	Nutritional Physiology of Animals	6 (4T + 2L)	**5**	ANSC
168	Ichthyology-Benthology	6 (3T + 3L)	**5**	ANSC
161	Quality and Safety of Animal Food Products	4T	**4**	ANSC+FSHN
49	Αγγλικά VI	2T		

Major Electives (2 of 4)				
237	Analytical Toxicology - Xenobiotics	4 (2T + 2L)	**4**	ANSC
208	Electronic Commerce	4 (2T + 2L)	**4**	AERD
1510	Design and Organization of Livestock Facilities	4T	**4**	NRAE
630	Rural Sociology	4T	**4**	AERD
Free Electives (1 of 2)				
3616	Didactics - Agricultural Education	3T	**2**	AERD
503	Climatology	2T	**2**	CRSC
		ECTS=	**30**	

7th Semester				
2995	Farming of Domestic Ruminants	6 (3T + 3L)	**5**	ANSC
41	Aquaculture	6 (3T + 3L)	**6**	ANSC
169	Ethology and Welfare of Farm Animals	3T	**3**	ANSC
159	The Physiological bases of Farm Animal Growth	4 (2T + 2L)	**3**	ANSC
16	Principles of Animal Breeding	5 (2T + 3L)	**5**	ANSC
Major Electives (1 of 4)				
7	Principles of Human Nutrition	3T	**3**	ANSC
163	Special Animal Breeding (furred animals, snails, songbirds, cervidae, laboratory animals)	3T	**3**	ANSC
331	Veterinary Pharmacology	3T	**3**	ANSC
316	Environmental Pollution	3T	**3**	CRSC
Free Electives (1 of 5)				
3721	Internet and Applications in Agriculture	5 (2T + 3L)	**5**	AERD
181	Meat and Milk Products Technology	5 (3T + 2L)	**5**	FSHN
3725	Business Strategic Planning	5T	**5**	AERD
2226	Precision Agriculture Technologies	5 (3T + 2L)	**5**	NRAE
241	Applications of Biomaterials in Biotechnology	5 (3T + 2L)	**5**	BIOT
		ECTS=	**30**	

8th Semester				
375	Methods of Animal Breeding	6 (4T + 2L)	**5**	ANSC
39	Ruminants Nutrition	6 (4T + 2L)	**5**	ANSC
19	Diseases of Farm Animals	6 (3T + 3L)	**5**	ANSC
36	Production of Aquatic Organisms	6 (3T + 3L)	**4**	ANSC
6	Applications of Biotechnology in Animal Science	4 (2T + 2L)	**3**	ANSC
Major Electives (1 of 4)				
18	Animal Production – Environment	4T	**3**	ANSC
332	Feed Manufacturing Technology	3T	**3**	ANSC
333	Laboratory Diagnostics in Animals	3 (1T + 2L)	**3**	ANSC
318	Fish Diseases	4 (2T + 2L)	**3**	ANSC
Free Electives (1 of 5)				

3401	Dairy Technology II – Cheese Science	5 (3T + 2L)	**5**	FSHN
301	Environmental and Marine Biotechnology	5 (3T + 2L)	**5**	BIOT
2000	Introduction to R Programming Language for Data Science	5 (2T + 3L)	**5**	AERD
1850	Phytopathology	5 (3T + 2L)	**5**	CRSC
3515	Agricultural Experimentation	5 (3T + 2L)	**5**	CRSC
		ECTS=	**30**	

9th Semester				
34	Monogastrics Nutrition	6 (3T + 3L)	**5**	ANSC
495	Economics in Animal Production	4T	**4**	AERD
1690	Farm Animal Health	5 (3T + 2L)	**4**	ANSC
167	Nutrition of Aquatic Organisms	4 (2T + 2L)	**3**	ANSC
1440	Livestock Production Systems	2T	**2**	ANSC
-	Diploma Dissertation I	-	**10**	ANSC
Free Electives (1 of 5)				
336	Immunology and Applications in Animal Science	3 (2T +1L)	**2**	ANSC
238	Animal Production and Public Health	2T	**2**	ANSC
239	Intelligent Systems and Data Mining in Animal Science	2 (1T +1L)	**2**	AERD
268	Principles of Animal Embryology	2 (1T +1L)	**2**	ANSC
337	Herd Health Management in Ruminants	3 (2T +1L)	**2**	ANSC
		ECTS=	**30**	

10th Semester				
-	Diploma Dissertation II	-	**20**	ANSC
-	Internship (2 months)		**10**	
		ECTS=	**30**	
TOTAL ECTS in 5 years= 300				

Students can choose an additional 20 ECTS (maximum) from elective courses for which they will declare from the outset that they will not be counted towards the degree grade (they will simply be listed in the diploma supplement).

Hours= teaching hours/week (T= theory and L= lab practicals); **Dept=** Department that offers the course (ANSC: Department of Animal Science; CRSC: Department of Crop Science; AERD: Department of Agricutural Economics & Rural Development; BIOT; Department of Biotechnology; NRAE: Department of Natural Resources & Agricutural Engineering; FSHN: Department of Food Science & Human Nutrition).