

**R E P U B L I C O F M A C E D O N I A**  
**Ss. Cyril and Methodius University in Skopje**



**STUDY PROGRAMME OF**  
**ANIMAL BIOTECHNOLOGY**  
**AT FIRST CYCLE OF UNIVERSITY STUDIES**

**FACULTY OF AGRICULTURAL SCIENCES AND FOOD - SKOPJE**

**РЕПУБЛИКА МАКЕДОНИЈА**  
**УНИВЕРЗИТЕТ „СВ. КИРИЛ И МЕТОДИЈ“ ВО СКОПЈЕ**  
**ФАКУЛТЕТ ЗА ЗЕМЈОДЕЛСКИ НАУКИ И ХРАНА-СКОПЈЕ**



**REPUBLIC OF MACEDONIA**  
**Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE**  
**FACULTY OF AGRICULTURAL SCIENCES AND FOOD-SKOPJE**

**Skopje, July 2017**

## STUDY PROGRAMME – ANIMAL BIOTECHNOLOGY

### FIRST SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Principles of Livestock Production</b>	3+2+2	6	Prof. Dr. Sreten Andonov
2.	<b>Anatomy of Animals</b>	3+2+2	6	Asst. Prof. Dr. Dimitar Nakov
3.	<b>Biochemistry</b>	3+2+2	6	Prof. Dr. Zoran Popovski
-elective courses (the student elects two other courses from the FASF list of courses from the 1 <sup>st</sup> semester besides the course in Sport and Health)				
4.				
5.				
	<b>Sport and Health (optional)</b>	0+2	-	Faculty of Physical Education, Sport and Health
	<b>Total</b>		30	

### FASF list of elective courses for the 1<sup>st</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Processing Equipment	3+2+2	6	Prof. Dr. Ile Canev
Agricultural Machinery	3+2+2	6	Prof. Dr. Dragi Tanevski
Human Resource Development	3+2+2	6	Prof. Dr. Dragi Dimitrievski
Chemistry	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Mirjana S. Jankulovska Asst. Prof. Dr. Ilenche Velkoska Markovska

### SECOND SEMESTER

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Genetics</b>	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Mirjana Jankulovska
2.	<b>Animal Physiology</b>	3+2+2	6	Prof. Dr. Metodija Trajchev
3.	<b>Zoology</b>	3+2+2	6	Prof. Dr. Katerina Belichovska
-elective courses (the student elects two other courses from the FASF list of courses from the 2 <sup>nd</sup> semester)				
4.			6	
5.			6	
<b>Practical Education</b>				
-	Practical Education	0+2	-	
	<b>Total</b>		30	

### FASF list of elective courses for the 2<sup>nd</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Ecology	3+2+2	6	Prof. Dr. Elizabeta Angelova
Botany	3+2+2	6	Prof. Dr. Silvana Manasievska Simikj Prof. Dr. Elizabeta Miskoska Milevska
Basics in Economics	3+2+2	6	Asst. Prof. Dr. Emelj Tuna
Management in Agriculture	3+2+2	6	Prof. Dr. Ana Kotevska

**THIRD SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Basics of Animal Nutrition</b>	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski
2.	<b>Fodder Crops Production</b>	3+2+2	6	Prof. Dr. Tatjana Prentovikj
3.	<b>Population Genetics</b>	3+2+2	6	Prof. Dr. Sreten Andonov
-elective courses (the student elects one course from the FASF list of courses from the 3 <sup>rd</sup> semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
Total			30	

FASF list of elective courses for the 3<sup>rd</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Molecular Biology of Animal Cell	3+2+2	6	Prof. Dr. Kocho Porchu Prof. Dr. Zoran Popovski
Microbiology	3+2+2	6	Prof. Dr. Olga Najdenovska

**FOURTH SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Fishery</b>	3+2+2	6	Prof. Dr. Katerina Belichovska
2.	<b>Applied Animal Nutrition</b>	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski
3.	<b>Horse Breeding</b>	3+2+2	6	Prof. Dr. Gjoko Bunevski
-elective courses (the student elects one course from the FASF list of courses from the 4 <sup>th</sup> semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
<b>Practical Education</b>				
-	Practical Education	0+2		
Total			30	

FASF list of elective courses for the 4<sup>th</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Standards for Animal Products	3+2+2	6	Prof. Dr. Dragoslav Kocevski Prof. Dr. Hrisula Kiprijanovska
Feed Technology	3+2+2	6	Prof. Dr. Srekjko Gjorgjievski

**FIFTH SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Cattle Breeding</b>	3+2+2	6	Prof. Dr. Gjoko Bunevski
2.	<b>Management in Livestock Production</b>	3+2+2	6	Prof. Dr. Dragi Dimitrievski Prof. Dr. Ana Kotevska
3.	<b>Goat Breeding</b>	3+2+2	6	Prof. Dr. Kocho Porchu Prof. Dr. Vladimir Dzabirski
-elective courses (the student elects one course from the FASF list of courses from the 5 <sup>th</sup> semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
	Total		30	

FASF list of elective courses for the 5<sup>th</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Genetically Modified Organisms	3+2+2	6	Prof. Dr. Zoran Popovski
Consumer Behaviour	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka

**SIXTH SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Pig Breeding</b>	3+2+2	6	Prof. Dr. Vlado Vukovikj
2.	<b>Sheep Breeding</b>	3+2+2	6	Prof. Dr. Vladimir Dzabirski Prof. Dr. Kocho Porchu
3.	<b>Poultry Farming</b>	3+2+2	6	Prof. Dr. Dragoslav Kocevski
-elective courses (the student elects one course from the FASF list of courses from the 6 <sup>th</sup> semester)				
4.			6	
-elective courses (the student elects one course from the UKIM list of courses)				
5.			6	
<b>Practical Education</b>				
-	Practical Education	0+2		
	Total		30	

FASF list of elective courses for the 6<sup>th</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Biodiversity in Agriculture	3+2+2	6	Prof. Dr. Sonja Ivanovska Prof. Dr. Kocho Porchu
Costs and Budgets	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Chemical Hazards in Food	3+2+2	6	Prof. Dr. Biljana Petanovska Ilievska Asst. Prof. Dr. Lenche Velkoska Markovska

**SEVENTH SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Milk Technology and Dairy Products</b>	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa
2.	<b>Animal Hygiene</b>	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
3.	<b>Beekeeping</b>	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
-elective courses (the student elects two courses from the FASF list of courses from the 7 <sup>th</sup> semester)				
4.			6	
5.			6	
Total			30	

FASF list of elective courses for the 7<sup>th</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Hygiene and Sanitation in Food Processing Industry	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
Biological Hazards in Food	3+2+2	6	Prof. Dr. Metodija Trajchev
Valuations in Agriculture	3+2+2	6	Prof. Dr. Aleksandra Martinovska Stojcheska Asst. Prof. Dr. Ivana Janeska Stamenkovska
Rural Development	3+2+2	6	Prof. Dr. Jovan Azderski

**EIGHTH SEMESTER**

Order number	Course	Lectures load	Number of ECTS	Lecturer
-compulsory courses				
1.	<b>Selection of Farm Animals</b>	3+2+2	6	Prof. Dr. Vlado Vukovikj
2.	<b>Meat Technology and Meat Processing</b>	3+2+2	6	Prof. Dr. Zlatko Pejkovski
3.	<b>Animal Health</b>	3+2+2	6	Prof. Dr. Metodija Trajchev Asst. Prof. Dr. Dimitar Nakov
-elective courses (the student elects two courses from the FASF list of courses from the 8 <sup>th</sup> semester)				
4.			6	
5.			6	
<b>Practical Education</b>				
-	Practical Education	0+2		
Graduation Thesis				
-	<b>Graduation Thesis</b>	0+3	5	
Total			35	

FASF list of elective courses for the 8<sup>th</sup> semester

Course	Lectures load	Number of ECTS	Lecturer
Honey Bee Products	3+2+2	6	Prof. Dr. Hrisula Kiprijanovska Asst. Prof. Dr. Aleksandar Uzunov
Principles of Food Quality and Safety	3+2+2	6	Prof. Dr. Sonja Srbinska Asst. Prof. Dr. Dushica Santa
Financial Management in Agriculture	3+2+2	6	Prof. Dr. Dragan Gjoshevski Asst. Prof. Dr. Ana Simonovska
Marketing of Agriculture Products	3+2+2	6	Prof. Dr. Nenad Georgiev Asst. Prof. Dr. Marina Nacka