

# Study program B0811A370002 - Agriculture and Food (AGRIFOB)

BSc full time course

Program guarantor: doc. Ing. Jaroslav Havlík, Ph.D.

## 1st year

	Subject	ECTS	AS	SS
AQA10Z	Excursion	1	2 days C	
AMA11E	Fundamentals of Microbiology	5	2/2 E	
ACA09E	Inorganic and Analytical Chemistry	5	2/2 E	
TAA05E	Methods of Calculation	5	2/2 E	
ABA15E	Plant Physiology	5	2/2 E	
RTX16Z	Sport	1	0/2 C	
AEA01E	Zoology	5	2/2 E	
TFA03E	Agricultural Machinery	5		2/2 E
ABA25E	Botany	5		2/2 E
AAA29E	Fundamentals of Agroecology	5		2/2 E
ACA07E	Organic Chemistry	5		2/2 E
AUA36Z	Practical Training	4		15 days C
APA38E	Soil Science	5		2/2 E
RTX17Z	Sport	1		0/2 C
		<b>57</b>		

## 2nd year

	Subject	ECTS	AS	SS
AKA30E	Animal Nutrition	5	2/2 E	
AEA22E	Aquaculture	5	2/1, 8fp E	
AVA42E	Biological Principles of Livestock Breeding	5	2/2 E	
AOA28E	Fundamentals of Plant Protection	5	2/2 E	
AZA09E	Horticulture	5	2/1, 16fp E	
	1x Compulsory Optional Subject	5	AS or SS	
ASA22E	Animal Production and Environment	5		2/2 E
AWA26Z	BSc. Thesis I	4		100 hours C
ATA32E	Crop Production and Environment	5		2/2 E
AGA44E	Fundamentals of Genetics	5		2/2 E
AHA38E	Plant Nutrition	5		2/2 E
AUA37Z	Specialised Training	8		25 days C
		<b>57 + optional subjects (5) = 62 cr.</b>		

## 3rd year

	Subject	ECTS	AS	SS
EEA17E	Business Economics	5	2/1 E	
ASA59E	Food Technology and Processing of Animal Products	5	2/1, 12fp E	
AZAD1E	Food Technology and Processing of Garden Products	5	2/2 E	
AQA61E	Food Technology and Processing of Plant Products	5	2/2 E	
AUA08Z	Practical Bachelor Training	4	5 days C	
	1x Compulsory Optional Subject	5	AS or SS	
AWA27Z	BSc. Thesis II	6+6	150 hours C	150 hours C
AQA58E	Food Storage and Preservation	5		2/2 E
AQA44E	Fundamentals of Quality Control of Animal Products	5		2/2 E
AQA45E	Fundamentals of Quality Control of Plant Products	5		2/2 E
AHA33E	Waste Handling	5		2/2 E
		<b>56 + optional subjects (5) = 61 cr.</b>		
		<b>in total 170 + optional subj. (10) = 180 cr.</b>		

### List of Compulsory Optional Subjects

	Compulsory Optional Subjects	ECTS	AS	SS
APA37E	Applied Cartography	5	2/2 E	
AAA39E	Basic Meteorology and Climatology	5	2/2 E	
AIA07E	Hydrology and Hydrogeology	5	2/2 E	

*Explanation: AS = Autumn semester; SS = Spring semester; E = Examination; C = Credited, fp = field practice*

The student should enrol in the Erasmus + program and should spend one semester abroad at one of our sister universities. If a student has an approved "Learning Agreement" (list of courses at a sister university) by Study Program guarantor then all fulfilled equivalent courses at a foreign university are accepted and he/she do not need to complete these courses from the curriculum here above.

### State exam

Study program B0811A370002 - Agriculture and Food (AGRIFOB)  
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Subject of the SE (corridor)	Subjects of the corridor
Agriculture and Environment	Horticulture
	Plant Production and Environment
	Animal Production and Environment
	Waste handling
Food Processing	Food Technology and Processing of Plant Products
	Food Technology and Processing of Animal Products
	Food Technology and Processing of Garden Products
Quality of Agricultural Products	Fundamentals of Quality Control of Animal Products
	Fundamentals of Quality Control of Plant Products
Defense of the Bachelor Thesis	

# Study program B0712A330002 - Sustainable Use of Natural Resources (SUNRB)

BSc full time course

Program guarantor: doc. Ing. Vít Penížek, Ph.D.

## 1st year

	Subject	ECTS	AS	SS
APA37E	Applied Cartography	5	2/2 E	
TAA05E	Methods of Calculation	5	2/2 E	
APA35E	Fundamentals of Geology	5	2/2 E	
ACA09E	Inorganic and Analytical Chemistry	5	2/2 E	
RTX16Z	Sport	1	0/2 C	
selected	Foreign Language	2+3	0/2 C	0/2 E
	1x Compulsory Optional Subject I.	min 5.		only SS
APA01Z	Excursion - Geology and Soil	3		3 days C
ACA07E	Organic Chemistry	5		2/2 E
AEA32E	Principles of Agroecology	5		2/2 E
APA38E	Soil Science	5		2/2 E
RTX17Z	Sport	1		0/2 C
ZGX109E	Statistics	5		2/2 E
<b>50 + optional subjects (5) = 55</b>				

## 2nd year

	Subject	ECTS	AS	SS
AAA27E	Agricultural Systems	5	2/2 E	
AAA39E	Basic Meteorology and Climatology	5	2/2 E	
ARA45E	Field Crop Technology	5	2/2 E	
AMA11E	Fundamentals of Microbiology	5	2/2 E	
ZGX122E	GIS I	5	2/2 E	
ARA31E	Plant Production and Environment	5	2/2 E	
	1x Compulsory Optional Subject I.	min 5.	only AS	
	1x Compulsory Optional Subject II.	min 2.	only AS	
	1x Compulsory Optional Subject III.	min 5.	AS or SS	
ASA22E	Animal Production and Environment	5		2/2 E
AWA26Z	BSc. Thesis I	4		100 hours C
APA02Z	Excursion – Soil Protection and Conservation	3		3 days C
ZGX124E	GIS II	5		2/2 E
APA39E	Introduction to Soil Conservation and Protection	5		2/2 E
AUA45Z	Specialised Training	8		25 days C
<b>60 + optional subjects (12) = 72</b>				

## 3rd year

	Subject	ECTS	AS	SS
AIA07Z	Excursion	1	1 day C	
AIA07E	Hydrology and Hydrogeology	5	2/2 E	
AUA08Z	Practical Bachelor Training	4	5 days C	
ZGX09E	Remote Sensing	4	1/2 E	
	1x Compulsory Optional Subject II.	min. 5	only AS	
	3x Compulsory Optional Subject III.	min. 15	AS or SS	
AWA27Z	BSc. Thesis II	6+6	150 hours C	150 hours C
AHA30Z	Excursion and Field Training	2		2 days C
AHA33E	Waste Handling	5		2/2 E
<b>33 + optional subjects (20) = 53</b>				
<b>in total 143 + optional subjects (37) = 180 credits</b>				

### List of Compulsory Optional Subjects I. (min 10 C)

	Compulsory Optional Subjects	ECTS	AS	SS
LHX17E	Forest Management	6	2/2 E	
AZA66E	Fundamentals of Landscape Architecture	5	2/2 E	2/2 E
ATA23E	Fundamentals of Turf and Lawn Management	5	2/2 E	

### List of Compulsory Optional Subjects II. (min 7 C)

	Compulsory Optional Subjects	ECTS	AS	SS
LRX06E	Environmental Economics	5	2/1 E	
LRX05Z	Forest and Agricultural Politics in CR and EU	2	2/0 C	
IEI001E	Agricultural Policy in Developing Countries	5	2/2 E	

### List of Compulsory Optional Subjects III. (min 20 C)

	Compulsory Optional Subjects	ECTS	AS	SS
selected	Chosen Subject from the List of Compulsory Optional Subjects II or Subjects Which Are Taught in English at CULS Prague – (please contact IRO - iro@af.czu.cz)	selected	AS or SS	

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### State exam

Study program B0712A330002 - Sustainable Use of Natural Resources (SUNRB)  
BSc full time course

Subject of the SE (corridor)	Subjects of the corridor
Theory of Natural Resources	Basic Meteorology and Climatology
	Fundamentals of Geology
	Soil science
Methods of Natural Resources Management	Applied kartography
	GIS I., II.
	Remote sensing
Care for Natural Resources	Introduction to soil conservation and protection
	Hydrology and Hydrogeology
Defense of the Bachelor Thesis	