

## Study program B0811A370002 - Agriculture and Food (AGRIFOB)

BSc full time course

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

### 1st year

	Subject	ECTS	WS	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	2/0 2s E	
RTX16Z	Sport	1	0/2 C	
AWA38Z	Start up module	1	0,7/0 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>58</b>		

### 2nd year

	Subject	ECTS	WS	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	WS 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	WS	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	
AHA33E	Waste Handling	5	2/2 E	
	1x Compulsory Optional Subject	5	WS 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
<b>56 + optional subjects (5) = 61 cr.</b>				
<b>in total 171 + optional subj. (10) = 181 cr.</b>				

### List of Compulsory Optional Subjects

	Compulsory Optional Subjects	ECTS	WS	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	
ATA26E	Forage Crop Production and Pasture Management	5		2/1,3 s4, 4e E

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

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### State exam

Study program B0811A370002 - **Agriculture and Food (AGRIFOB)**  
BSc full time course

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	WS	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	
AWA38Z	Start up module	1	0,7/0 C	
selected	Foreign Language	2+3	0/2 C	0/2 E
	1x Compulsory Optional Subject I.	min 5.	WS or 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>51 + optional subjects (5) = 56</b>				

**2nd year**

	Subject	ECTS	WS	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.	WS or SS	
	1x Compulsory Optional Subject II.	min 2.	only WS	
	1x Compulsory Optional Subject III.	min 5.	WS 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	WS	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	
AHA33E	Waste Handling	5	2/2 E	
	1x Compulsory Optional Subject II.	min. 5	only WS	
	3x Compulsory Optional Subject III.	min. 15	WS or SS	
AWA27Z	BSc. Thesis II	6+6	150 hours C	150 hours C
AHA30Z	Excursion and Field Training	2		2 days C
<b>33 + optional subjects (20) = 53</b>				
<b>in total 144 + optional subjects (37) = 181 credits</b>				

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

	Compulsory Optional Subjects	ECTS	WS	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	WS	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	WS	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	WS or SS	

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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 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 Cartography
	GIS I., II.
	Remote sensing
Care for Natural Resources	Introduction to soil conservation and protection
	Hydrology and Hydrogeology
Defense of the Bachelor Thesis	

Study program B4147 - Sustainable use of natural resources (ATN)  
 Branch 4106R014 - **Sustainable use of natural resources (ATN)**  
 BSc full time course  
 Program guarantor: doc. Ing. Vít Penížek, Ph.D.

**1st year**

	Subject	ECTS	WS	SS
TAA11E	Applied Mathematics	5	2/2 E	
TBA03E	Physics Applied to Biology	6	2/2 E	
APA35E	Fundamentals of Geology	5	2/2 E	
ACA09E	Inorganic and Analytical Chemistry	5	2/2 E	
AEA01E	Zoology	5	2/2 E	
RTX16Z	Sport	1	2/0 C	
selected	Foreign Language	2+3	0/2 C	0/2 E
RTX17Z	Sport	1		2/0 C
ABA14E	General and Special Agricultural Botany	6		2/2 E
ACA07E	Organic Chemistry	6		2/2 E
AEA32E	Principles of Agroecology	4		2/1 E
AWA49Z	Practical Training	5		15 days/C
AEA29Z	Excursions, Field Training	2		2 days C
		<b>56</b>		

**1st year of this study plan is not open, study SUNRB**

**2nd year**

	Subject	ECTS	WS	SS
AAA27E	Agricultural Systems	5	2/2 E	
AAA25E	Basic Meteorology	6	2/2 E	
EEA14E	Fundamentals of Economics I	5	2/1 E	
AMA11E	Fundamentals of Microbiology	5	2/2 E	
APA38E	Soil Science	5	2/2 E	
	2x Compulsory Optional Subject I *)	selected	WS or SS	
ASA22E	Animal Production and Environment	5		2/2 E
ARA31E	Plant Production and Environment	6		2/2 E
AUA08Z	Practical Bachelor Training	5		5 days C
AWA26Z	BSc. Thesis	4		0/5 z
AUA26Z	Specialized Practice	6		25 days C
		<b>52 + optional subjects</b>		

**2nd year of this study plan is not open, study SUNRB**

**3rd year**

	Subject	ECTS	WS	SS
AIA07E	Hydrology and Hydrogeology	5	2/2 E	
AIA07Z	Excursion	1	1 day C	
AZA68E	Establishment and Maintenance of Greenery	5	2/2 E	
AZA67E	Fundamentals of Orchards and Urban Design	6	2/2 E	
AHA33E	Waste Handling	6	2/2 E	
AWA27Z	BSc. Thesis	6+6	0/5 C	0/5 C
	2x Compulsory Optional Subject II *	selected	WS or SS	
	3x Fully Optional Subject **	selected	WS or SS	
AHA30Z	Excursion and Field Training	2		2 days C
		<b>37 + optional subjects</b>		
		<b>145 + optional subjects</b>		

**3rd year of this study plan is not open, study SUNRB**

\* Chosen Subject from the List of Compulsory Optional Subjects

\*\* Chosen Subject from the List of Compulsory Optional Subjects II or Subjects Which Are Taught in English at CULS Prague

### List of Optional Subjects

	Compulsory Optional Subject I	ECTS	WS	SS
APA37E	Applied Cartography	5	2/2 E	
ATA23E	Fundamentals of Turf and Lawn Management	5		2/2 E
AZA66E	Fundamentals of Landscape Architecture	4	2/2 E	2/2 E
LHX01E	Fundamentals of Forest Management	4		2/2 E

	Compulsory Optional Subject II	ECTS	WS	SS
EEE43E	EU Integration Process in Agriculture	5	2/1 E	
EUA03E	Trade and Commerce	5	2/2 E	
AGA44E	Fundamentals of Genetics	5	2/2 E	2/2 E
EEA16E	Environmental Economics	5		2/1 E
AZA21E	Fundamentals of Vegetables, Edible Mushrooms and Sprouts Production	4		2/1 E

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### State exam

Study program B4147 - Sustainable use of natural resources (ATN)

Branch 4106R014 - Sustainable use of natural resources (ATN)

Subject of the SE (corridor)	Subjects of the corridor
Theory of Natural Resources	Basic Meteorology
	Soil Science
	Fundamentals of Microbiology
	Hydrology and Hydrogeology
Use of Natural Resources	Fundamentals of Orchards and Urban Design
	Plant Production and Environment
	Animal Production and Environment
	Waste Handling
Defense of the Bachelor Thesis	