

## Bachelor in **Branch:** *Agricultural Sciences*

### **Speciality:** *Plant Production*

The goal of the Plant Production program is to give students a high-level training in agricultural sciences oriented towards a modern and developed agriculture. It's based on the improvement of the quality and management of water, the development of cropping systems for a sustainable agriculture, the development of plant genetic resources, the creation of varieties adapted to local environmental conditions, the quantitative and qualitative improvement of plant production.

Field	Branch	Speciality
natural and life sciences	<i>Agricultural sciences</i>	<i>2nd year license</i>

#### First Semester

Teaching unit	Matter	Credit	Coefficient	Course	TD	TP	HV
Fundamental Unit	General and organic chemistry	6	3	1h30	1h30	1h30	67h30
	cellular biology	8	4	1h30	1h30	3h	90h
	Mathematics and statistics	4	2	1h30	1h30	1h	45h
Methodological unit	Geology)	5	3	1h30	1h30	-	60h
	Technique of communication and expression 1 (In French)	4	2	1h30	1h30	-	45h
Discovery unit	Working method and terminology 1	2	2	1h30	1h30	-	45h
Transversale Unit	Working	1	1	1h30		-	22h30

Teaching unit	Matter	Credit	Coefficient	Course	TD	TP	HV
	method and terminology 1				1h30		

### Second Semester 2

Teaching unit	Matter	Credit	Coefficient	Courses	TD	Practical Work	Volume (hour)
<b>Fundamental Unit</b>	Thermodynamics and chemistry of solutions	6	3	1h30	1h30	1h30	67h30
	Vegetal biology	6	3	1h30	-	3h	67h30
	animal biology	6	3	1h30	-	3h	67h30
Methodological unit	Physic	5	3	1h30	1h30	1h	60h
	Communication and Expression Techniques 2 (in English)	4	2	1h30	1h30		45h
Discovery unit	Life sciences and socio-economic impacts	2	2	1h30	1h30		45h
Transversale Unit	Working method and terminology	1	1	1h30	--		22h30

### Third Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
<b>Fundamental Unit</b>	Zoology	4	2	1h30	-	1h30	45h
	Animal physiology	2	1	1h30	-		22h30
	Biochemistry	6	3	3h	1h30		67h30
	Genetic	6	3	3h	1h30		67h30
Methodological unit	Communication and expression techniques (In	4	2				45h

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
	English)			1h30	1h30		
	Biophysics	5	3	1h30	1h30	1h	60h
Discovery unit	Environment and Sustainable Development	2	2	1h30	1h30		45h
Transversale Unit	Ethics and university deontology	1	1	1h30	1h30	1h30	1h30

#### Fourth semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
<b>Fundamental Unit</b>	Agronomy I	4	2	1h30	1h30	-	45h
	Agronomy II	4	2	1h30	1h30	-	45h
	Microbiology	6	3	1h30	1h30	1h30	67h30
	Botanical	4	2	1h30	-	1h30	45h
Methodological unit	Plant physiology	4	2	1h30	-	1h30	45h
	Biostatistics	5	3	1h30	1h30	1h	60h
Discovery unit	General ecology	2	2	1h30	1h30	-	45h
Transversale Unit	Informatical tools	1	1	1h30	-	-	22h30

#### Fifth semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
<b>Fundamental Unit</b>	Agro-pedology and fertilization	4	2	1h30	-	1h30	45h
	Irrigation and drainage	4	2	1h30	1h30	-	45h
	Genetic Improvement	6	3	1h30	1h30	1h30	67h30

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
	of plants						
	Production of plant and seed	4	2	1h30	-	1h30	45h
Methodological unit	Plant physiology	3	2	1h30	-	1h	37h30
	Plant biochemistry	2	1	1h30	-	-	22h30
	Phytopathology	4	2	1h30	-	1h30	45h
Discovery unit	Nematodes harmful to agriculture	2	2	1h30	-	1h30	45h
Transversale Unit	Analytical chemistry	1	1	1h30	-	-	22h30

### Six Semester

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
<b>Fundamental Unit</b>	Field crops	6	3	1h30	1h30	1h30	67h30
	Perennial crops	6	3	1h30	1h30	1h30	67h30
	Vegetable crops	6	3	1h30	1h30	1h30	67h30
Methodological unit	Agricultural machinery	4	2	1h30	-	1h30	45h
	Statistic and data analysis	3	2	1h30	1h	-	37h30
	Ecosystem functioning	2	1	1h30	-	-	22h30
Discovery unit	Arthropods harmful to	2	2	1h30	-	1h30	45h

Teaching unit	Matter	Credit	Coefficient	C	TD	TP	HV
	agriculture						
Transversale Unit	Molecular biology	1	1	1h30	-	-	22h30