UNDERGRADUATE PROGRAM CURRICULUM AGRICULTURE – USP/ESALQ 2017

ourses are s	orted by recommended completion sequence		Credits		Hours	
	Mandatory Courses	In class	Workload	Total	Total	Semeste
0110113	Introduction to Agriculture	2	0	2	30	1
0110130	Academic Life	2	0	2	30	1
LCB0103	Plant Morphology	4	0	4	60	1
LCE0108	Inorganic and Analytical Chemistry	6	0	6	90	1
LCE0108	Calculus I	4	0	4	90 60	1
LES0180		4	0	4	30	1
LFN0212	Introduction to Management	2	0	2	30 30	1
	General Animal Science and Parasitology	2	1	4	30 75	1
LGN0114	Cell Biology Animal Science	4	0		75 60	1
LZT0100	First Semester - Total	4 29	1	4 30	465	I
LCB0208	Dischamister	4	0	4	60	2
	Biochemistry	4				
LCB1204	Systematic Botany	4	0	4	60	2
050000	LCB0103 - Plant Morphology		2			
LCE0220	Calculus II	4	0	4	60	2
500400	LCE0120 - Calculus I		2			
LES0160	Applied Mathematics for Finances	2	0	2	30	2
LES0213	Principles of Economics, Politics and Development	2	0	2	30	2/3
LES0216	Knowledge and Research	2	0	2	30	2
LGN0215	Genetics	3	1	4	75	2
	LGN0114 - Cell Biology					
LGN0232	Molecular Genetics	2	0	2	30	2
LSO0210	Geology Applied to Soils	2	0	2	30	2
	LCE0108 - Inorganic and Analytical Chemistry					
LZT0313	Animal Anatomy and Physiology	4	0	4	60	2
	Second Semester - Total	29	1	30	465	
LCB0311	Plant Physiology	4	0	4	60	3
	LCB0208 - Biochemistry					
	LCB1204 - Systematic Botany					
LCE0211	Basic Statistics	4	0	4	60	3
	LCE0220 - Calculus II					
LEB0200	Agro-environmental Physics	4	0	4	60	3
	LCE0106 – Differential and Integral Calculus or					
	LCE0220 - Calculus II					
LEB0340	Land Surveying and Geoprocessing I	6	0	6	90	3
LFN0321	Microbiology	4	0	4	60	3
	LGN0114 - Cell Biology		Ũ		00	0
LSO0300	Soil Chemistry and Fertility	4	0	4	60	3
2000000	LSO0210 - Geology Applied to Soils	-	0	7	00	5
LSO0310	Soil Physics	2	0	2	30	3
		2	0	4	50	5
	LEB0200 - Agro-environmental Physics (concomitant enrollment required)					
770440	LSO0210 - Geology Applied to Soils	2	0	2	20	2
LZT0419	Animal Production I	2	0	2	30	3
	LZT0100 – Animal Science					
	LZT0313 - Animal Anatomy and Physiology					
LZT0420	Animal Production II	2	0	2	30	3
	LZT0100 – Animal Science					
	LZT0313 - Animal Anatomy and Physiology					

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AN1458	Sugar and Ethanol		2	1	3	60	4
004400	LCB0208 - Biochemistry			0			
CB1402	Plant Ecology LCB0311 - Plant Physiology		4	0	4	60	4
EA0322	General Entomology		4	0	4	60	4
	LFN0212 - General Animal Science and Parasitology						
EB0450	Land Surveying and Geoprocessing II		5	0	5	75	4
ES0362	LEB0340 - Land Surveying and Geoprocessing I Research Project in Agriculture		2	0	2	30	
200002	LES0216 – Knowledge and Research		-	Ū	-	00	
FN0424	Plant Pathology		4	0	4	60	4
000400	LFN0321 - Microbiology		•	0	•	00	4
SO0400	Soil Biology LFN0321 - Microbiology		2	0	2	30	4
	LSO0300 - Soil Chemistry and Fertility						
SO0410	Soil Genesis, Morphology and Classification		4	0	4	60	4
	LSO0300 - Soil Chemistry and Fertility						
ZT0520	LSO0310 - Soil Physics Forage and Pasture Science		4	0	4	60	4
10520	LZT0420 – Animal Production II or		4	0	4	00	4
	LZT0430 - Animal Nutrition						
	F	ourth Semester - Total	31	1	32	495	
AN1444	Quality and Processing of Animal Source Foods		2	1	3	60	5
	LCB0208 - Biochemistry						
AN2444	LFN0321 - Microbiology Post baryost Handling and Processing of Vegetables		2	1	3	60	5
1112444	Post-harvest Handling and Processing of Vegetables LCB0311 - Plant Physiology		2	I	3	00	5
EA0430	Crop Pests		4	0	4	60	5
	LEA0322 - General Entomology						
EB0306	Agricultural Meteorology		4	0	4	60	5
EB0332	LEB0200 - Agro-environmental Physics Mechanics and Power Units in Agriculture		2	0	2	30	5
-00332	LEB0340 - Land Surveying and Geoprocessing I		2	0	2	30	5
ES0667	Agribusiness Management		2	0	2	30	5
	LES0180 - Introduction to Management						
	LES0213 - Principles of Economics, Politics and Development			0	4	00	-
PV0448	Fruit Crops LCB0311 - Plant Physiology		4	0	4	60	5
.PV0480	Vegetable crops, Floriculture and Landscaping		4	0	4	60	5
	LCB0311 - Plant Physiology						
SO0420	Plant Mineral Nutrition		4	0	4	60	5
	LCB0311 - Plant Physiology						
SO0526	LSO0400 - Soil Biology Fertilizers and Fertilization		2	1	3	60	5
000020	LSO0400 - Soil Biology		-	•	Ũ	00	U
	Fifth	Semester - Total	30	3	33	540	
CE0602	Experimental Statistics LCE0211 - Basic Statistics		4	0	4	60	6
EB0432	Agricultural Machinery		4	0	4	60	6
	LEB0332 - Mechanics and Power Units in Agriculture						
_EB0472	Hydraulics		4	0	4	60	6
	LEB0200 - Agro-environmental Physics LEB0340 - Land Surveying and Geoprocessing I						
ES0129	Sociology and Extension		4	0	4	60	6/7
	LES0213 - Principles of Economics, Politics and Development						
PV0557	Rice, Bean, Corn and Wheat Production		4	0	4	60	6
	LSO0420 - Plant Mineral Nutrition		л	0	А	60	6
PV0564	Cotton and Coffee Production and Introduction to Agroecology LSO0420 - Plant Mineral Nutrition		4	0	4	60	6
PV0584	Sugarcane and Soybean Production		4	0	4	60	6
	LSO0420 - Plant Mineral Nutrition						
SO0660	Soil Technology		4	0	4	90	6
	LSO0410 - Soil Genesis, Morphology and Classification LSO0526 - Fertilizers and Fertilization						

Courses are s	es are sorted by recommended completion sequence		Credits			
	Mandatory Courses	In class	Workload	Total	Total	Semester
LCF1581	Forest Resources in Agricultural Properties	4	1	5	90	7
	LCB1402 - Plant Ecology					
LEB0418	Rural Buildings and Technical Drawing	4	0	4	60	7/8
	LEB0340 Land Surveying and Geoprocessing					
LEB1440	Hydrology and Drainage	4	0	4	60	7
	LEB0472 - Hydraulics					
	LSO0410 - Soil Genesis, Morphology and Classification					
LEB1571	Irrigation	4	0	4	60	7
	LCB0311 - Plant Physiology					
	LEB0306 - Agricultural Meteorology					
	LEB0472 - Hydraulics					
LGN0313	Plant Breeding	4	0	4	60	7
	LGN0215 - Genetics					
	LGN0232 - Molecular Genetics					
LPV0638	Seed Production	4	0	4	60	7
LPV0671	Weed Control	4	1	5	90	7
	LCB0311 - Plant Physiology					
	Seventh Semester - Total	28	2	30	480	
0111000	Final Report in Agriculture	2	4	6	150	9/10
	Grand Total	213	12	225	3555	

* Courses in italics are prerequisites to courses displayed above them

Students admitted after 2007 must work 210 hours in internship courses of their own choice

 Ideal duration: 10 semesters
 Minimum duration: 9 semesters
 Maximum duration: 15 semesters

 Total credits required for program completion: 280 (in class + workload)
 Maximum duration: 15 semesters

 Completion requirements for Licentiate degree in Agriculture: 280 credits (in class + workload) + # of credits required for licentiate degree.