

Bachelor programmes

Bachelor programme in Crops and Livestock Engineering

Academic unit	Coimbra College of Agriculture (ESAC-IPC)
Type	Undergraduate Major Program
Level of qualification	Level 6. First Cycle (Bachelor's Degree) Program. 30 ECTS/semester during 3 years
Qualification awarded	The students who successfully complete the program are awarded the degree of Bachelor of Science (B.S.) in Bachelor Programme in Crops and Livestock Engineering
Mode of study	Full-Time
Admission requirements and recognition of prior learning	<p>Foreign European Union citizens who wish to enrol in ESAC-IPC undergraduate degree programmes may apply:</p> <ul style="list-style-type: none"> (a) Through a national contest; (b) Students already enrolled in a foreign Higher Education Institution may ask for transfer during an annual application period, with recognition of prior learning. <p>Non EU citizens who wish to enrol in ESAC-IPC undergraduate degree programmes must apply via the annual application for International Students, using one of the following:</p> <ul style="list-style-type: none"> (a) Those with a qualification giving access to Higher Education, meaning any diploma or certificate issued by a competent authority in the country in which it was awarded can apply directly to the desired bachelor degree; (b) Those or a Diploma of Portuguese secondary school or equivalent degree must apply for the specific ESAC-IPC bachelor degree exams (www.esac.pt); <p>More information on how to apply for the Portuguese first-cycle bachelor programmes: Study in Portugal website.</p>
Qualification requirements	The undergraduate students in this program must be successful in all the courses with a minimum achievement grade of 10, including their compulsory traineeship, and must have completed at least 180 ECTS credits.
Profile of the programme	Coimbra College of Agriculture offers both undergraduate and graduate programs on agriculture. There are courses on both plant and animal production. Our main target is to prepare students with a solid scientific and technological formation for careers in crop and livestock production.
Occupational profiles of graduates	Graduates will be self-employed, employed by others to carry out services in plant and/or animal production companies (company planning and organization, production management, consultancy, R&D projects...).
Access to graduate studies	The graduates of this program can apply to master programs to enhance their academic skills and career. The master program in Crops and Livestock is a continuity of the bachelor program in Crops and Livestock Engineering.
Examination regulations, assessment and grading	<p>Assessment of success</p> <p>Assessment of success in a course may be carried out by a) continuous evaluation or b) exam. The students which do not achieve success during continuous evaluation are admitted to the exam if their presence is $\geq 75\%$.</p> <p>Achievement grade</p> <p>Grades are given in an absolute system scoring 0 to 20. Scores 0 to 9 indicate that the student was unsuccessful in a course (fail). Scores 10 to 20 indicate that the student was successful in a course (pass).</p> <p>Continuous evaluation, final, resit and graduation exams</p> <p>(1) All courses contemplate continuous evaluation, which may be carried out in different ways specified in the respective Course Datasheet.</p> <ul style="list-style-type: none"> a) Assessment by modules: each module is given a percentage contribution to the final grade. The student passes only if the grade for each module is ≥ 7.5 and the final grade of the course is ≥ 9.5. The failed module(s) may be assessed in the final and/or resit exams or the student may choose to assess the whole subject of the course; b) When the course is not divided in modules, the student passes if the final grade of the course is ≥ 9.5. The contribution of each evaluation item for the final grade is specified in the Course Datasheet. The complete subject of a failed course must be assessed in the final and/or resit exams. <p>(2) Final exams: the final exams may assess one or more course modules or the whole course.</p> <p>(3) Resit exams: are the final opportunity for a student to pass a course in a given academic year and are subject to prior registration and fee payment at the Academic Services. The resit exams may assess one or more course modules or the whole course.</p> <p>(4) Graduation exams: available to finalist students with, at the most, three failed courses to fulfil the bachelor program requirements.</p>

Curriculum

1 st year – 1 st (Fall) Semester						
Code	Title	L	LP	P/Lab	TG	ECTS
1511002	General agriculture and animal science I		52.5		8	4.5
8810020	Biology I		52.5		8	6
8810033	Geology and climatology		45		7	4.5
8810026	English language and communication		30		4.5	3
8810029	Numerical methods and programming	22.5	37.5		9	6
8810022	Chemistry and biochemistry I	30		30	9	6

1 st year – 2 nd (Spring) Semester						
Code	Title	L	LP	P/Lab	TG	ECTS
1512002	General agriculture and animal science II		52.5		8	4.5
8810024	Biology II		52.5		8	6
1512001	Soils		45		7	4.5
8810030	Technical English and communication		30		4.5	3
8810021	Mathematical analysis	22.5	37.5		9	6
8810025	Chemistry and biochemistry II	32		20	9	6

2 nd year – 3 rd (Fall) Semester						
Code	Title	L	LP	P/Lab	TG	ECTS
1521001	Economy and sociology		32		10.5	3.5
1521002	Animal biological unit		74		37	8
1521003	Pastures and fodders		30		12.5	3
1521004	Plant protection		60		25	6
1521005	Horticulture		30		12.5	3
1521006	Rural engineering I		74		28	6.5

2 nd year – 4 th (Spring) Semester						
Code	Title	L	LP	P/Lab	TG	ECTS
1522001	Monogastric animal production I		60		25	7
1522002	Ruminant animal production I		60		25	6
1522003	Arable crops I		30		12.5	3
1522004	Fruticulture and viticulture I		75		27	7
1522005	Rural engineering II		45		23	4
1522006	Vocational activities		30		12.5	3

3 rd year – 5 th (Fall) Semester						
Code	Title	L	LP	P/Lab	TG	ECTS
1531001	Enterprise management and entrepreneurship		62		23	6
1531002	Monogastric animal production II		59		26	6
1531003	Ruminant animal production II		59		26	5
1531004	Arable crops II		30		12.5	3
1531005	Fruticulture and viticulture II		60		25	6
1531006	Floriculture and gardening		30		12.5	3

3 rd year – 6 th (Spring) Semester						
Code	Title	L	LP	P/Lab	TG	ECTS
1532001	Animal welfare and food safety		60		25	5
1532002	Agricultural production framework		60		25	7
1532003	Traineeship				51	18

NOTES: L=Lecture; LP=L-Practical; P/Lab=P/Laboratory; TG=Tutorial guidance. A semester has a duration of 15 class weeks