

Animal Sciences and Agricultural Education

Agricultural Specialist Credential Program

The Agricultural Specialist Credential, which authorizes holders to teach secondary school vocational agriculture, is offered jointly by the College of Agricultural Sciences and Technology and the Kremen School of Education and Human Development. It requires completion of the Single Subject Waiver Program (see above), professional education courses (see *Education — Single Subject Credential — Program Requirements, Professional Preparation*), and an approved fifth-year program of 30 postgraduate units including AGED 135, 150, 187, 189; EHD 155B; CI 161; and AGRI 280, 281.

Animal Sciences Minor

This program is designed for students in other majors who desire instruction in the various disciplines of animal science. Students may design a minor with an animal science adviser to best satisfy their interests.

Students must consult with a faculty adviser in the Animal Sciences Department to plan the minor. The adviser and department chair must approve the minor program before it can be certified by the college dean. It is then filed with the Evaluations Office and recorded on the transcript.

A Minor in Animal Sciences consists of a minimum of 21 units, 9 units of which must be upper division. The minor program of study must be designed from the following courses:

	<i>Units</i>
Select from: ASCI 1, 21, 31, 41, 51, 61, 71.....	3-6
Select from: ASCI 11, 35, 65	3-6
Select from: ASCI 101, 125, 135, 145, 155, 165.....	9-10
Select from: ASCI 121, 131, 151, 161, 171.....	3
Total units.....	21-22

Note: The Animal Sciences Minor also requires a 2.0 GPA and 6 upper-division units in residence.

Advising Notes

1. Complete an Animal Sciences Minor advising sheet with a faculty adviser for selection of courses.
2. Courses in a major cannot be applied toward a minor unless designated as additional requirements.
3. All courses in the minor must be taken for a letter grade. *CR/NC* grading is not acceptable.
4. A minor may be earned only at the time a student earns the first baccalaureate degree.

Master of Science Degree Program

The Master of Science in Animal Science is a 30-unit degree program designated to extend professional competencies in animal science to professionals in the industry and to provide the first graduate degree for students anticipating advanced graduate work in the animal sciences. The curriculum is flexible to accommodate a wide variety of areas of interest in animal science. Coursework in animal science includes ruminant and non-ruminant nutrition, environment, reproduction, meats, and health. Appropriate coursework in agricultural education, chemistry, biology, food science, business, or in other areas may also be taken with approval to meet the needs of individual student programs. A thesis or a comprehensive exam can be taken. Full-time graduate students may earn the degree within two years when working closely with an adviser. To accommodate part-time students, graduate courses are offered in the late afternoon or evening.

Admission requirements. The Master of Science in Animal Science assumes preparation equivalent to a bachelor of science in animal science or agricultural education from an accredited institution. The preparatory baccalaureate degree must include the following courses or their equivalents:

- a. ASCI 35 and three of the following five courses: ASCI 125, 135, 145, 155, 165;
- b. BIOL 1A or BIOL 12;
- c. CHEM 1A or 3A;
- d. two of the following courses: CHEM 8, 150, BIOL 20, PHYS 2A and 2B; and
- e. two animal science production courses.

The above courses or equivalents must be completed prior to enrollment in courses that will be applied to the master's program.

Admission to unclassified postbaccalaureate standing by the university does not imply acceptance in the Master of Science in Animal Science program.

Applicants whose preparatory education was principally in a language other than English must earn a minimum TOEFL score of 550.

Admission materials. To be considered for admission to the graduate program, the candidate must submit the following materials: evidence of a baccalaureate degree in animal science or agricultural education, or in a related field with appropriate preparatory coursework from an accredited institution; official transcripts of all college work, scores from the Graduate Record Examination General Test (GRE); university application

for graduate/postbaccalaureate admission to the Graduate Admissions Office; three letters of reference from employers or faculty at the university attended most recently; and a statement of 500 words or less indicating reasons for pursuing a master's degree.

Program admission criteria. Candidates for admission will be evaluated using the following criteria: undergraduate coursework, grade point average of 3.0 or better on the last 60 semester units, recommended GRE scores (480V/580Q are equivalent to the 50th percentile), 500-word statement of professional goals, and three letters of recommendation. Students lacking in any area with compensating strengths in other areas are encouraged to apply.

Classified standing will be granted to students who meet all of the program admission criteria. Conditional classified standing may be granted to applicants with a 2.75-2.99 GPA (last 60 semester units) and/or those required to complete prerequisite coursework. Prerequisite coursework is not included in the 30-unit master's program. Students must request classified standing in the program by the semester in which a maximum of 10 units to be used toward the degree are completed.

Prerequisite requirements. PLANT 99, AGECE 71 or MATH 101 (one course), and BIOL 161, CHEM 105, 151, or FSC 115 (one course), are required.

Program Requirements

The student, under the direction of a graduate adviser, prepares and submits a coherent program individually designed within the following framework:

	<i>Units</i>
Core.....	12
AGRI 200 (or BIOL 274), 201, 220; ASCI 229 (1+1+1)	
Electives.....	14
100-200 level courses with prior approval of adviser and thesis committee. Courses may be chosen from the following: ASCI 240T, 241, 242, 246, 247, 248, 290 AGRI 280, 281 CHEM 150, 153, 156 Courses in agriculture, business, food science, biology, or other	
Culminating experience.....	0-4
Thesis (4 units) or Comprehensive Exam (0 units)	
Total minimum units.....	30

Graduate Advising Notes

1. Several of the 200-level and approved elective courses have prerequisites other than courses listed as admission requirements.