SUSTAINABLE AGRICULTURE AND FOOD SYSTEMS MAJOR (B.A.)

https://colsa.unh.edu/agriculture-nutrition-food-systems/program/ba/sustainable-agriculture-food-systems-major

Description

The **Bachelor of Arts (B.A.) degree in Sustainable Agriculture and Food Systems** is designed for students interested in obtaining a well-rounded education in this field. As compared with the B.S. degree, the B.A. degree offers more flexibility to take courses from a variety of disciplines or to pursue a dual degree, second major or minor.

Requirements

The SAFS B.A. program structure includes FOUR major components: foundation courses, courses in a student-designed emphasis area, program elective courses, and a capstone.

Foundation courses include 36 credits, which satisfy 5 of the University Discovery requirements. You must earn a minimum grade of C- in these courses.

Student-Designed Emphasis courses include 20 credits that make up a cohesive emphasis or focus area. Courses may be selected from the *List of Approved Program Electives*, but do not need to be on that list. An appropriate group of courses transferred from a completed 2-year program such as TSAS could serve as an emphasis area. Each student will define their emphasis area in consultation with their advisor and submit it to the SAFS program committee for approval prior to the start of their 6th semester.

Program Elective courses include 20 credits, chosen from the *List of Approved Program Elective* courses.

A **Capstone** experience is a University requirement. Capstone experiences may include formal coursework, pre-approved honors theses or mentored research projects or other special activities that address appropriate and relevant aspects of the capstone experience. *This must take place during the senior year.*

Of the Student-Designed Emphasis and Program Elective courses, **at least 16 credits (not counting the capstone) must be earned at the 600-700 level**. Further, **at least 4 credits must qualify as Experiential**.

Code	Title	Credits
Foundation Courses		36
ANSC 421	Animal Agriculture Today	
or AAS 431	Introduction to Animal Science	
BIOL 528	Applied Biostatistics I	
or EREC 525	Statistical Methods and Applications	
CHEM 411	Introductory Chemistry for Life Sciences	
or CHEM 403	General Chemistry I	
EREC 411	Environmental and Resource Economics Perspectives	
or ECON 402	Principles of Economics (Micro)	
NR 501	Studio Soils	
NUTR 405	Food and Society	
or NUTR 400	Nutrition in Health and Well Being	
or NUTR 730	From Seed to Sea: Examining Sustainable Food Systems	
SAFS 405	Sustainable Agriculture and Food Production	
SAFS 421	Introductory Horticulture	
SAFS 502	Agroecology	
Student-Designed Emphasis Area		20
Select 20 credits from the approved electives list.		
Program Electives		20
Select 20 credits from the approved electives list.		
Senior Capstone		
Select one from the following:		
SAFS 733	Advanced Topics in Sustainable Agriculture	
SAFS 679 & SAFS 680	Food Production Field Experience I and Food Production Field Experience II	
SAFS 795	Investigations	
SAFS 799	Honors Senior Thesis	
ANSC 698	Cooperative for Real Education in Agricultural Management (CREAM)	
ECOG 701	EcoGastronomy Capstone (EcoGastronomy majors)	

University Requirements

In addition to meeting the SAFS major requirements, students must satisfy all University requirements including those that pertain to the minimum number of credits, grade-point average, writing-intensive courses, the Discovery Program, and foreign language (only for B.A. students).

Approved Electives

Code	Title	Credits
Animal Courses		
AAS 402	Introduction to Livestock and Poultry Management	2
AAS 421	Large Animal Behavior and Handling Techniques	2
AAS 423	Dairy Selection	2
AAS 424	Animal Law and Regulations	3
AAS 425	Introduction to Dairy Herd Management	4
AAS 431	Introduction to Animal Science	4
AAS 432	Introduction to Forage and Grassland Management	3
AAS 439	Fundamentals of Animal Health	2
AAS 535	Animal Nutrition	3
AAS 540	Animal Breeding	3
AAS 574	Dairy Cattle Disease Seminar	2
ANSC 510	Integration of Culture and Agriculture in Ireland: Past, Present, and Future	2 or 4
ANSC 602	Animal Rights and Societal Issues	4
ANSC 609	Principles of Animal Nutrition	4
ANSC 612	Genetics of Domestic Animals	4

ANSC 625	Diseases of Small Ruminants, Swine, Poultry, and Camelids	4
ANSC 650	Dairy Industry Travel Course	1
ANSC 698	Cooperative for Real Education in Agricultural Management (CREAM)	4
ANSC 701	Physiology of Reproduction	4
ANSC 708	Ruminant Nutritional Physiology	3
ANSC 710	Dairy Nutrition	4
ANSC 715	Physiology of Lactation	4
ANSC 724	Reproductive Management and Artificial Insemination	4
ANSC 727	Advanced Dairy Management I	4
ANSC 728	Advanced Dairy Management II	4
ANSC 750	Collaborative Farm Design and Development	4
ZOOL 610	Principles of Aquaculture	4
ZOOL 772	Fisheries Biology	3
ZOOL 773	Physiology of Fish	4
Business/Technical Practices/Policy Courses		
ABM 404A & ABM 404B	Introduction to Business I and Introduction to Business II	4
ABM 407	Applied Marketing	4
ABM 506	Human Resource Management	4
AAS 546	Animal Business Applications	4
EREC 601	Agribusiness Economics and Management	4
EREC 680	Agricultural and Food Policy	4
EREC 760	Ecological-Economic Modeling for Decision Making	4
Environment Courses		
BIOL 541	General Ecology	4
CHE 410	Energy and Environment	4
CEP 415	Community Development Perspectives	4
GEOG 670	Climate and Society	4
NR 435	Contemporary Conservation Issues and Environmental Awareness	4
NR 504	Freshwater Resources	4
NR #621	Field Description of Soils	3
NR 650	Principles of Conservation Biology	4
NR 701	Ecological Sustainability and Values	4
NR 706	Soil Ecology	4
NR #735	Land Conservation Principles and Practices	4
NR 760	Geographic Information Systems in Natural Resources	4
NR 761	Environmental Soil Chemistry	4
NR 765	Community Ecology	4
NR 785	Systems Thinking for Sustainable Solutions	4
NR 795	Investigations (Topic: Soil Fertility and the Environment, 4cr)	1-4
SAFS 729	Agricultural Waste Management	4
Experiential Courses		
SAFS 733	Advanced Topics in Sustainable Agriculture	4
SAFS 795	Investigations	1-4
SAFS 799	Honors Senior Thesis	1-4
ANSC 795	Investigations	1-4
NUTR 795	Investigations	1-4
Food/Nutrition Courses		
CAN 407	Hospitality Sanitation and Safety	1
CAN 422	Cuisine and Culture	4
CAN 528	Culinary Nutrition	2
ECOG 401	Introduction to Ecogastronomy	4
HMGT 403	Introduction to Food Management	4
HMGT 570	International Food and Culture	4
BMS 503	General Microbiology	3
NUTR 400	Nutrition in Health and Well Being	4
NUTR 550	Food Science: Principle and Practice	4
NUTR 720	Community Nutrition	4
NUTR 730	From Seed to Sea: Examining Sustainable Food Systems	4
Forest Courses		
FORT 564	Arboriculture	3
FORT 576	Forest Products	4
FORT 577	Forest Harvesting Systems	4
FORT 579	Forest Fire Control and Use	2
NR 425	Field Dendrology	4
NR 506	Forest Entomology	4
NR 527	Forest Ecology	4
NR #542	Forestland Measurement and Mapping	1
NR 602	Natural Resources and Environmental Policy	4
NR 643	Economics of Forestry	4
NR 729	Silviculture	4
NR 749	Forest Inventory and Modeling	4
NR 782	Forest Health in a Changing World	4
NR #783	Forest Communities of New Hampshire	4
Plant Courses		
BIOL 408	Plants and Civilization	4
BIOL 409	Introductory Botany	4
BIOL 510	Mushrooms, Molds, and Mildews: Introduction to the Fungal Kingdom	4
BIOL 566	Systematic Botany	4
BIOL 701	Plant Physiology	5
BIOL 720	Plant-Animal Interactions	4
BIOL 752	Mycology	4
GEN 774	Techniques in Plant Genetic Engineering and Biotechnology	4
HT 404	Plant Propagation	4
HT 554	Sustainable Irrigation and Rain Harvesting	3
HT 460	Sustainable Plant Management	4
SAFS 410	A Taste of the Tropics	4
SAFS 415	Introduction to Brewing Art and Science	4
SAFS 510	Agriculture and Development in the Neotropics	4
SAFS 601	Fruit Crop Production	4
SAFS 632	Urban Agriculture	4
SAFS 651	Plant Pathology	4
SAFS 679	Food Production Field Experience I	4
SAFS 680	Food Production Field Experience II	4

SAFS 689	Greenhouse Management and Operation	4
SAFS 760	Insect Pest Management	4