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.

Approved Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSC 421</td>
<td>Animal Agriculture Today</td>
<td>2</td>
</tr>
<tr>
<td>or AAS 431</td>
<td>Introduction to Animal Science</td>
<td></td>
</tr>
<tr>
<td>BIOL 528</td>
<td>Applied Biostatistics I</td>
<td>2</td>
</tr>
<tr>
<td>or EREC 525 Statistical Methods and Applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 411</td>
<td>Introductory Chemistry for Life Sciences</td>
<td>2</td>
</tr>
<tr>
<td>or CHEM 40: General Chemistry I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EREC 411</td>
<td>Environmental and Resource Economics Perspectives</td>
<td>2</td>
</tr>
</tbody>
</table>

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).
ANSC 625  Diseases of Small Ruminants, Swine, Poultry, and Camels  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  Introduction to Business I  4
& ABM 404B  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

Food Production Field Experience II  4
Food Production Field Experience I  4
Plant Pathology  4
Food Production Field Experience I  4
Food Production Field Experience II  4
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAFS 689</td>
<td>Greenhouse Management and Operation</td>
<td>4</td>
</tr>
<tr>
<td>SAFS 760</td>
<td>Insect Pest Management</td>
<td>4</td>
</tr>
</tbody>
</table>