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>
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<tbody>
<tr>
<td>ANSC 421 or AAS 431</td>
<td>Animal Agriculture Today or Introduction to Animal Science</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 528 or EREC 525 Statistical Methods and Applications</td>
<td>Applied Biostatistics I</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 411 or CHEM 40</td>
<td>Introductory Chemistry for Life Sciences or General Chemistry I</td>
<td>2</td>
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<tr>
<td>EREC 411</td>
<td>Environmental and Resource Economics Perspectives</td>
<td>4</td>
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<tr>
<td>NUTR 405</td>
<td>Food and Society</td>
<td>2</td>
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<tr>
<td>or NUTR 400 Nutrition in Health and Well Being</td>
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<tr>
<td>or NUTR 730 From Seed to Sea: Examining Sustainable Food Systems</td>
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<tr>
<td>SAFS 405</td>
<td>Sustainable Agriculture and Food Production</td>
<td>2</td>
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<tr>
<td>SAFS 421</td>
<td>Introductory Horticulture</td>
<td>2</td>
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<tr>
<td>SAFS 502</td>
<td>Agroecology</td>
<td>2</td>
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<tr>
<td>SAFS 733</td>
<td>Advanced Topics in Sustainable Agriculture</td>
<td>2</td>
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<tr>
<td>SAFS 679 &amp; SAFS 680 Food Production Field Experience I and Food Production Field Experience II</td>
<td>3</td>
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<tr>
<td>SAFS 795</td>
<td>Investigations</td>
<td>2</td>
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<tr>
<td>SAFS 799</td>
<td>Honors Senior Thesis</td>
<td>2</td>
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<tr>
<td>ANSC 698</td>
<td>Cooperative for Real Education in Agricultural Management (CREAM)</td>
<td>2</td>
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<tr>
<td>ECOG 701</td>
<td>EcoGastronomy Capstone (EcoGastronomy majors)</td>
<td>2</td>
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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).
## Sustainable Agriculture and Food Systems Major (B.A.)

- **Biology 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

- **Environmental 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

- **Business/Technical Practices/Policy Courses**
  - ABM 404A 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

- **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

- **Investigations**
  - CAN 582 Culinary Nutrition (4cr)  |  2
  - ECOG 401 Introduction to Ecogastronomy (4cr)  |  4
  - HMGT 403 Introduction to Food Management (4cr)  |  4
  - HMGT 570 International Food and Culture (4cr)  |  4
  - BMS 503 General Microbiology (3cr)  |  3
  - NUTR 550 Food Science: Principle and Practice (4cr)  |  4
  - NUTR 720 Community Nutrition (4cr)  |  4
  - NUTR 730 From Seed to Sea: Examining Sustainable Food Systems (4cr)  |  4
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<tr>
<th>Course Code</th>
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<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>
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