# Bachelor of Science Degree in Sustainable Agriculture

**Total Credit Hours Required:** 120  
*(Effective Fall 2021)*

## First Year - Fall
- AVS 145 - Introduction to Animal Science  
  - 3
- BIO 100 - Basic Biology  
  - 4
- NFA 117 - Issues and Opportunities  
  - 1
- PSE 100 - Plant Science  
  - 4
- PSE 105 - Principles of Sustainable Agriculture  
  - 3

## First Year - Spring
- ENG 101 - College Composition  
  - 3
- FSN 101 - Introduction to Food and Nutrition  
  - 3
- MAT 116 - Introduction to Calculus  
  - 3
- MAT 122 - Pre-Calculus  
  - 4

## Second Year - Fall
- BMB 207 - Fundamentals of Chemistry  
  - 3
- BMB 209 - Fundamentals of Chemistry Laboratory  
  - 1
- CHY 121 - General Chemistry I  
  - 3
- CHY 123 - General Chemistry Laboratory I  
  - 1
- PSE 215 - Vegetable and Fruit Production (odd yrs)  
  - 3
- STS 232 - Principles of Statistical Inference  
  - 3
- WLE 200 - Ecology  
  - 3
- BIO 319 - General Ecology (Spring)  
  - 3
- General Education: Western Cultural Tradition  
  - 3

## Second Year - Spring
- BMB 208 - Elementary Physiological Chemistry  
  - 3
- BMB 210 - Elementary Physiological Chemistry Laboratory  
  - 1
- CHY 122 - General Chemistry II  
  - 3
- CHY 124 - General Chemistry Laboratory II  
  - 1
- CMJ 102 - Fundamentals of Interpersonal Communication  
  - 3
- CMJ 103 - Public Speaking  
  - 3
- SFR 222 - Environmental Communication Skills  
  - 3
- ECO 254 - Small Business Economics and Management  
  - 3
- EES 140 - Soil Science  
  - 3
- EES 141 - Soil Science Laboratory  
  - 1

## Summer
- PSE 396 - Field Experience  
  - 1

## Third Year - Fall
- BIO 327 - Introductory Applied Entomology  
  - 4
- PHI 232 - Environmental Ethics  
  - 3
- General Education: Ethics  
  - 3
- PSE 203 - Weed Biology and Identification (even yrs)  
  - 1
- PSE 312 - Sustainable Food Systems (even yrs)  
  - 3
- General Elective  
  - 3

## Third Year - Spring
- ENG 315 - Research Writing in the Disciplines  
  - 3
- ENG 317 - Business and Technical Writing  
  - 3
- PSE 410 - Plant Propagation  
  - 4
- PSE 415 - Greenhouse Management  
  - 4
- General Education: Artistic and Creative Expression  
  - 3

## Fourth Year - Fall
- BIO 452 - Plant Physiology  
  - 3
- PSE 403 - Weed Ecology and Management (odd yrs)  
  - 3
- PSE 457 - Plant Pathology  
  - 4
- PSE 360 - Agroecology and Sustainable Cropping Systems (even yrs)  
  - 4
- PSE 430 - SL: Sustainable Horticulture and Agriculture Capstone  
  - 3
- PSE 440 - Environmental Soil Chemistry and Plant Nutrition (even yrs)  
  - 3

## Fourth Year - Spring
- General Elective  
  - 1
- General Elective  
  - 1
- General Elective  
  - 3

## Note:
- 'C- or higher is required for EES 140/141 and all PSE courses.

*Revised: May 9, 2021*
Short Course Options

Choose at least 4 credits in this section:

- AVS 267 ‐ Swine Production Credits: 1 (Fall odd yrs)
- AVS 268 ‐ Pasture Poultry Production Credits: 1 (Fall even yrs)
- BIO 453 ‐ Plant Physiology Laboratory Credits: 1
- PSE 216 ‐ UMaine Greens Practicum Credits: 1
- PSE 260 - Pesticide Applicator Certification Credits: 1
- PSE 261 - Nutrient Management Credits: 1
- PSE 262 - Introduction to Cannabis Cultivation and Science Credits: 1
- PSE 263 - Plant Health Diagnostics Credits: 1
- PSE 264 - Introduction to Composting Credits: 1
- PSE 265 - Soil Health for Farm Resilience and Climate Mitigation Credits: 1
- PSE 266 - Small Fruit and Berry Production Credits: 1
- PSE 269 - So You Want to Farm in Maine Credits: 1