

MAJOR IN AGRICULTURAL BIOLOGY, WEED SCIENCE CONCENTRATION

Requirements

Effective Fall 2025

Freshman

| | | AUCC | Credits |
|---|--|------|---------|
| AB 120 ^{1,2} | Agricultural Biology--Freshman Orientation | | 1 |
| AB 130 ^{1,2} | Working with Agricultural Biology Data | | 1 |
| CHEM 107 | Fundamentals of Chemistry (GT-SC2) | 3A | 4 |
| CHEM 108 | Fundamentals of Chemistry Laboratory (GT-SC1) | 3A | 1 |
| CO 150 | College Composition (GT-CO2) | 1A | 3 |
| Select one group from the following: | | | 8 |
| Group A | | | |
| LIFE 102 | Attributes of Living Systems (GT-SC1) | 3A | |
| LIFE 103 | Biology of Organisms-Animals and Plants (GT-SC1) | 3A | |
| Group B | | | |
| BZ 110 | Principles of Animal Biology (GT-SC2) | 3A | |
| BZ 111 | Animal Biology Laboratory (GT-SC1) | 3A | |
| BZ 120 | Principles of Plant Biology (GT-SC1) | 3A | |
| Select one course from the following: | | | 3-4 |
| ATS 150 | Science of Global Climate Change (GT-SC2) | 3A | |
| BSPM 102 | Insects, Science, and Society (GT-SC2) | 3A | |
| HORT 100 | Horticultural Science | 3A | |
| 1C (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc) | | 1C | 3 |
| Arts and Humanities (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities) | | 3B | 6 |

Total Credits

30-31

Sophomore

| | | | |
|---|---|----|---|
| AB 230 ^{1,2} | Becoming an Agricultural Biology Professional | | 1 |
| AB 303 ¹ | General Entomology Laboratory | | 2 |
| BSPM 302 ¹ | Applied and General Entomology | | 2 |
| CHEM 245 | Fundamentals of Organic Chemistry | | 4 |
| CHEM 246 | Fundamentals of Organic Chemistry Laboratory | | 1 |
| SPCM 200 | Public Speaking | | 3 |
| Select one course from the following: | | | 3 |
| CO 301B | Writing in the Disciplines: Sciences (GT-CO3) | 2 | |
| JTC 300 | Strategic Writing and Communication (GT-CO3) | 2 | |
| LB 300 | Specialized Professional Writing | 2 | |
| Select one course from the following: | | | 3 |
| LAND 220/LIFE 220 ¹ | Fundamentals of Ecology (GT-SC2) | 3A | |
| LIFE 320 ¹ | Ecology | | |
| Select a minimum of 3 credits from the following: | | | 3 |
| MATH 117 | College Algebra in Context I (GT-MA1) | 1B | |
| MATH 118 | College Algebra in Context II (GT-MA1) | 1B | |
| MATH 120 | College Algebra (GT-MA1) | 1B | |

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| MATH 124 | Logarithmic and Exponential Functions (GT-MA1) | 1B | |
| MATH 155 | Calculus for Biological Scientists I (GT-MA1) | 1B | |
| Select one course from the following: | | | 3 |
| STAT 301 | Introduction to Applied Statistical Methods | | |
| STAT 307 | Introduction to Biostatistics | | |
| Social and Behavioral Sciences (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences) | | | 3C 3 |
| Total Credits | | | 28 |
| Junior | | | |
| AB 330 ¹ | Applications in Agricultural Biology I | 4A,4B,4C | 2 |
| BSPM 201 or 308 | Weed Management and Control Ecology and Management of Weeds | | 3 |
| BSPM 361 ¹ | Elements of Plant Pathology | | 3 |
| BSPM 487 | Internship | | 3 |
| BZ 220 ¹ | Introduction to Evolution | | 3 |
| SOCR 240 ¹ | Introductory Soil Science | | 4 |
| BZ 350 ¹ | Molecular and General Genetics | | |
| Select one course from the following: | | | 3-4 |
| SOCR 330 | Principles of Genetics | | |
| Weed Science Elective (Select from list below) ¹ | | | 3 |
| Electives | | | 4-5 |
| Total Credits | | | 29 |
| Senior | | | |
| AB 410 | Understanding Pesticides | | 3 |
| AB 430 ¹ | Applications in Agricultural Biology II | 4A,4B,4C | 3 |
| AB 451 | Integrated Pest Management | | 3 |
| Historical Perspectives (https://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives) | | | 3D 3 |
| Weed Science Electives (Select from list below) ¹ | | | 9 |
| Electives ³ | | | 11-12 |
| Total Credits | | | 32-33 |
| Program Total Credits: | | | 120 |

Weed Science Electives

| Code | Title | Credits |
|--|---|---------|
| Select a minimum of 12 credits from the following: | | |
| BZ 223 | Plant Identification | 3 |
| BZ 331 | Developmental Plant Anatomy | 4 |
| BZ 338 | Comparative Morphology of Vascular Plants | 4 |
| BZ 440 | Plant Physiology | 3 |
| BZ 450 | Plant Ecology | 4 |
| HORT 221 | Landscape Plants | 4 |
| HORT 341 | Turfgrass Management | 3 |
| HORT 460/SOCR 460 | Plant Breeding and Biotechnology | 3 |
| HORT 464A | Arboriculture | 3 |

³ Select enough elective credits to bring the program total to 120, of which at least 42 must be Upper-Division (300- to 400-level).

¹ A minimum grade of 'C' (2.000) must be obtained in this course in order to complete the program.

² Transfer students are required to take AB 270 in lieu of AB 120, AB 130, and AB 230.