

MAJOR IN HORTICULTURE, HORTICULTURAL SCIENCE CONCENTRATION

Requirements Effective Fall 2022

Freshman

| | | AUCC | Credits |
|--|--|------|---------|
| BZ 120 | Principles of Plant Biology (GT-SC1) | 3A | 4 |
| CHEM 111 | General Chemistry I (GT-SC2) | 3A | 4 |
| CHEM 112 | General Chemistry Lab I (GT-SC1) | 3A | 1 |
| CHEM 113 | General Chemistry II | | 3 |
| CHEM 114 | General Chemistry Lab II | | 1 |
| CO 150 | College Composition (GT-CO2) | 1A | 3 |
| HORT 100 | Horticultural Science | 3A | 4 |
| HORT 192/LAND 192 | Orientation to Horticulture/Landscape Arch | | 1 |
| MATH 124 ¹ | Logarithmic and Exponential Functions (GT-MA1) | 1B | 1 |
| MATH 125 ¹ | Numerical Trigonometry (GT-MA1) | 1B | 1 |
| MATH 126 | Analytic Trigonometry (GT-MA1) | 1B | 1 |
| 1C (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#aucc) | | 1C | 3 |
| Social and Behavioral Sciences (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#social-behavioral-sciences) | | 3C | 3 |

Total Credits

30

Sophomore

| | | | |
|---|--|----|-----|
| HORT 260 | Plant Propagation | | 4 |
| PH 121 | General Physics I (GT-SC1) | 3A | 5 |
| PH 122 | General Physics II (GT-SC1) | 3A | 5 |
| SPCM 200 | Public Speaking | | 3 |
| Select one course from the following: | | | 3-4 |
| BUS 150 | Business Computing Concepts and Applications | | |
| CS 110 | Personal Computing | | |
| Advanced Writing (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#advanced-writing) | | 2 | 3 |
| Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#arts-humanities) | | 3B | 3 |
| Historical Perspectives (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/#historical-perspectives) | | 3D | 3 |

Total Credits

29-30

Junior

| | | | |
|--------------------------------------|---|----|-----|
| BZ 440 | Plant Physiology | | 3 |
| MATH 155 | Calculus for Biological Scientists I (GT-MA1) | 1B | 4 |
| SOCR 240 | Introductory Soil Science | | 4 |
| SOCR 330 | Principles of Genetics | | 3 |
| STAT 301 | Introduction to Applied Statistical Methods | | 3 |
| Select one group from the following: | | | 5-8 |
| Group A: | | | |
| CHEM 245 | Fundamentals of Organic Chemistry | | |

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| CHEM 246 | Fundamentals of Organic Chemistry Laboratory | | |
| Group B: | | | |
| CHEM 341 | Modern Organic Chemistry I | | |
| CHEM 343 | Modern Organic Chemistry II | | |
| CHEM 344 | Modern Organic Chemistry Laboratory | | |
| HORT XXX ² | | | 5 |
| Arts and Humanities (http://catalog.colostate.edu/general-catalog/all-university-core-curriculum/aucc/ #arts-humanities) | | 3B | 3 |
| Electives | | | 0-3 |
| Total Credits | | | 33 |
| Senior | | | |
| BC 351 | Principles of Biochemistry | | 4 |
| BSPM 302 | Applied and General Entomology | | 2 |
| BSPM 303B | Entomology Laboratory: Horticultural | | 1 |
| BSPM 361 | Elements of Plant Pathology | | 3 |
| HORT 310 | Greenhouse Management | 4B | 4 |
| HORT 454 | Horticulture Crop Production and Management | 4A,4C | 2 |
| HORT 476 | Environmental Plant Stress Physiology | | 3 |
| HORT 495 | Independent Study | | 2 |
| HORT XXX ² | | | 6 |
| Elective ² | | | 0-1 |
| Total Credits | | | 27-28 |
| Program Total Credits: | | | 120 |

¹ The equivalent to MATH 117 and MATH 118, if needed, may be taken using elective credits.

² Students must select at least 12 credits of upper division (300- to 400-level) horticulture elective and/or free elective courses to bring the program total of upper division credits to a minimum of 42. Select enough elective credits to bring the program total to 120 credits.