

# HORTICULTURE (TURFGRASS SCIENCE AND MANAGEMENT) - BACHELOR OF SCIENCE IN AGRICULTURE

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300/3000 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

| Prefix   | Title   | Credits |
|--|---|---------|
| <b>General Education</b>   |   |         |
| <i>Area I: Communications</i>  |   | 10      |
| <i>English Composition - Level 1</i> <sup>1</sup>                                |   |         |
| <i>English Composition - Level 2</i>   |   |         |
| ENGL 2210G   | Professional and Technical Communication Honors             |         |
| <i>Oral Communication</i> <sup>1</sup>   |   |         |
| <i>Area II: Mathematics</i>  |   |         |
| MATH 1220G   | College Algebra <sup>2,3</sup>                              | 3       |
| <i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>           |   | 11      |
| CHEM 1215G   | General Chemistry I Lecture and Laboratory for STEM Majors  |         |
| CHEM 1225G   | General Chemistry II Lecture and Laboratory for STEM Majors |         |
| <i>Area IV: Social &amp; Behavioral Sciences Course (3 credits)</i> <sup>1</sup> |   |         |
| <i>Area V: Humanities</i> <sup>1</sup>   |   | 3       |
| <i>Area VI: Creative and Fine Arts</i> <sup>1</sup>                              |   | 3       |
| <i>General Education Elective</i>  |   |         |
| AGRO 1110G/<br>HORT 1115G  | Introduction to Plant Science (Lecture & Lab)               | 4       |
| <b>Viewing A Wider World</b> <sup>3,4</sup>                                      |   | 6       |
| <b>Departmental/College Requirements</b>   |   |         |
| EPWS 303   | Economic Entomology   | 3       |
| EPWS 310   | Plant Pathology   | 4       |
| EPWS 314   | Plant Physiology  | 3       |
| HORT 2160  | Plant Propagation   | 3       |
| HORT 365   | Principles of Crop Production                               | 4       |
| HORT 447   | Seminar   | 1       |
| HORT 377   | Introduction to Turfgrass Management                        | 4       |
| HORT 378   | Turfgrass Science   | 4       |
| HORT 391   | Internship (taken twice for a total of 6 credits)           | 6       |
| HORT 479   | Advanced Turfgrass Science                                  | 3       |
| SOIL 2110  | Introduction to Soil Science                                | 3       |
| <i>Choose 4 credits from the following:</i> <sup>3</sup>                         |   |         |
| HORT 2110  | Ornamental Plants I   |         |
| HORT 2120  | Ornamental Plants II  |         |
| HORT 2130  | Floral Quality Evaluation and Design                        |         |
| HORT 2990  | Floriculture Field Practicum                                |         |
| HORT 2996  | Special Topics  |         |
| HORT 300   | Special Topics  |         |
| HORT 302V  | Forestry and Society  |         |

|                                       |  |    |
|---------------------------------------|--|----|
| HORT 305                              | Principles of Genetics                                   |    |
| HORT 307                              | Landscape Design   |    |
| HORT 310                              | Medicinal Herbs  |    |
| HORT 449                              | Special Problems   |    |
| HORT 450                              | Special Topics   |    |
| HORT 462                              | Plant Breeding   |    |
| HORT 471                              | Plant Mineral Nutrition                                  |    |
| HORT 479                              | Advanced Turfgrass Science (required)                    |    |
| HORT 488                              | Greenhouse Management                                    |    |
| HORT 492                              | Diagnosing Plant Disorders                               |    |
| <b>Concentration Courses</b>          |  |    |
| AGRO 311                              | Introduction to Weed Science                             | 4  |
| Choose 28 credits from the following: |  | 28 |
| A ST 311                              | Statistical Applications                                 |    |
| ACCT 2110                             | Principles of Accounting I                               |    |
| ACCT 2120                             | Principles of Accounting II                              |    |
| AEEC 2110                             | Principles of Food and Agribusiness Management           |    |
| AEEC 2140                             | Technology and Communication for Business Management     |    |
| AEEC 3210                             | Marketing and Food Agricultural Products                 |    |
| AEEC 3110V                            | World Agriculture and Food Problems                      |    |
| AEEC 4110                             | Food and Agribusiness Financial Management               |    |
| AGRO 303V                             | Genetics and Society                                     |    |
| AGRO 483                              | Advanced Sustainable Crop Production                     |    |
| ARTS 1610                             | Drawing I  |    |
| ARTS 2610                             | Drawing II   |    |
| BFIN 2110                             | Introduction to Finance                                  |    |
| BFIN 341                              | Financial Analysis and Markets                           |    |
| BIOL 301                              | Principles of Ecology                                    |    |
| BIOL 313                              | Structure and Function of Plants                         |    |
| BLAW 313                              | Sports and the Law                                       |    |
| BLAW 316                              | Legal Environment of Business                            |    |
| BLAW 385V                             | Employment and Consumer Law                              |    |
| BUSA 1110                             | Intro to Business  |    |
| CHEM 2115                             | Survey of Organic Chemistry and Laboratory               |    |
| ECON 2110G                            | Macroeconomic Principles                                 |    |
| ECON 2120G                            | Principles of Microeconomics                             |    |
| ECON 337V                             | Natural Resource Economics                               |    |
| ECON 384V                             | Water Resource Economics                                 |    |
| EPWS 301                              | Agricultural Biotechnology                               |    |
| EPWS 373                              | Fungal Biology   |    |
| EPWS 420                              | Environmental Behavior of Pesticides                     |    |
| FSTE 4110                             | Food Microbiology  |    |
| FSTE 4120                             | Food Chemistry   |    |
| GENE 305 L                            | Genetic Techniques                                       |    |
| GENE 315                              | Molecular Genetics                                       |    |
| GENE 320                              | Hereditary and Population Genetics                       |    |
| MGMT 309                              | Human Behavior in Organizations                          |    |
| MGMT 333                              | Training and Development                                 |    |
| MGMT 351                              | Supply Chain Management                                  |    |
| MKTG 303                              | Principles of Marketing                                  |    |
| MKTG 313                              | Retail Management  |    |
| PHED 1230                             | Individual Sport: (Golf (Beginning and/or Intermediate)) |    |
| SOIL 2110L                            | Introduction to Soil Science Laboratory                  |    |
| SOIL 312                              | Soil Management and Fertility                            |    |

|  |   |            |
|--|---|------------|
| SOIL 312 L   | Soil Management and Fertility Lab                     |            |
| SOIL 456   | Irrigation and Drainage                               |            |
| SOIL 476   | Soil Microbiology                                     |            |
| SPAN 1110  | Spanish I   |            |
| SPAN 2110  | Spanish III   |            |
| SPAN 2120  | Spanish IV  |            |
| <b>Non-Departmental Requirements (in addition to Gen.Ed/VWW)</b> |   |            |
| BIOL 2110G   | Principles of Biology: Cellular and Molecular Biology | 3          |
| <b>Electives to bring the total credit to 120<sup>5</sup></b>    |   | <b>4</b>   |
| <b>Total Credits</b>   |   | <b>120</b> |

<sup>1</sup> See the General Education (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/>) section of the catalog for a full list of courses

<sup>2</sup> MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

<sup>3</sup> Requires a grade of C- or above in horticulture courses.

<sup>4</sup> See the Viewing a Wider World (<https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext>) Section of the catalog for a full list of courses.

<sup>5</sup> Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However, students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.