AGRONOMY - BACHELOR OF SCIENCE IN AGRICULTURE

Agronomy is an understanding of the principles of plant and soil science and an application of these principles in the production of crops. Commercial sector careers include positions in agricultural consulting companies, agricultural seed or chemical companies, research and development with commercial companies, as well as farm and/or ranch management. Careers in county, state or federal agencies are in the areas of USDA, Cooperative Extension Service, Natural Resources Conservation Service, Forest Service and Bureau of Land Management.

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 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

General Education

Area I: Communications

English Composition - Level 1  4

English Composition - Level 2
Choose from one of the following:  3

ENGL 218G  Technical and Scientific Communication
ENGL 318G  Advanced Technical and Professional Communication

Oral Communication  3

Area II: Mathematics
Choose from one of the following:  3

MATH 121G  College Algebra
MATH 142G  Calculus for the Biological and Management Sciences

Area III/IV: Laboratory Science and Social/Behavioral Sciences  11

CHEM 111G  General Chemistry I
CHEM 112G  General Chemistry II

Area IV: Social & Behavioral Sciences Course (3 credits)  3

Area V: Humanities  3

Area VI: Creative and Fine Arts  3

General Education Elective  4

AGRO/HORT 100G  Introductory Plant Science

Viewing A Wider World  6

Departmental/College Requirements

AG E 250  Technology and Communication for Business Management  3
AGRO 305  Principles of Genetics (or GENE 320 AND EPWS 301)  3
AGRO 311  Introduction to Weed Science  4
AGRO 365  Principles of Crop Production  4
AGRO 447  Seminar  1
AGRO 449  Special Problems  1-3
AGRO 462  Plant Breeding  3

AGRO 471  Plant Mineral Nutrition  3
AGRO 483  Sustainable Production of Agronomic Crops  4
or HORT 485  Vegetable Crop Management
AGRO 492  Diagnosing Plant Disorders  3
EPWS 303  Economic Entomology  3
EPWS 310  Plant Pathology  4
EPWS 314  Plant Physiology  3
SOIL 252  Soils  3
SOIL 252 L  Soils Laboratory  1
SOIL 312  Soil Management and Fertility  3
SOIL 312 L  Soil Management and Fertility Lab  1

Other Required Courses
Choose 10 credits from the following:  10

AG E 236  Principles of Food and Agribusiness Management
AG E 305  Marketing and Food Agricultural Products
AG E 315V  World Agriculture and Food Problems
AGRO 250  Plant Propagation
AGRO 391  Internship
BIOL 312  Plant Taxonomy
EPWS 303  Economic Entomology
BLAW 316  Legal Environment of Business
EPWS 301  Agricultural Biotechnology
EPWS 373  Fungal Biology
EPWS 455  Advanced Integrated Pest Management
HORT 315  Crop Physiology
RGSC 294  Rangeland Resource Management
SOIL 456  Irrigation and Drainage
SPAN 111  Elementary Spanish I
SPAN 112  Elementary Spanish II
SPAN 211  Intermediate Spanish I

Non-Departmental Requirements (other than Gen.Ed/VWW)

A ST 311  Statistical Applications  3
BIOL 111G  Natural History of Life  3
BIOL 211G  Cellular and Organismal Biology  3
BIOL 313  Structure and Function of Plants  3
CHEM 211  Organic Chemistry  4

Electives, to bring the total credits to 120  7-5

Total Credits  120

1 See the General Education Section (linked) of the catalog for a full list of courses
2 See the Viewing a World Section (linked) of the catalog for a full list of courses
3 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.