SOIL SCIENCE (SOIL AND WATER SCIENCE) - BACHELOR OF SCIENCE IN AGRICULTURE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1430G Applications of Calculus I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

First Year

Fall | Credits
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ENGL 1110G Composition I | 4
Elective Course | 2
ACES 1120 Freshman Orientation (recommended) | 2
ACES 1210 Financial Fitness for College Students (recommended) | 2
Choose one from the following: | 3
BIOL 2110G Principles of Biology: Cellular and Molecular Biology | 3
BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution | 3
Choose one from the following: | 3-4
MATH 1430G Applications of Calculus I | 4
MATH 1511G Calculus and Analytic Geometry I | 4
Area V: Humanities Course | 3

Credits: 15-16

Spring

GEOL 1110G Physical Geology | 4
Concentration Category Course: Category 1 or 2 | 4
ACOM 1130G Effective Leadership and Communication in Agriculture | 4
Area VI: Creative and Fine Arts Course | 3
Elective Course | 3

Credits: 17

Second Year

Fall

CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors | 4
CHEM 1121 General Supplemental Instruction I | 1
Viewing a Wider World | 3
Concentration Category Course: Categories 1, 2, 3, or 4 | 3
Choose one from the following: | 3
BIOL 2110G Principles of Biology: Cellular and Molecular Biology | 3
BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution | 3
BIOL 311 General Microbiology | 3
Elective Course | 3

Credits: 18

Spring

CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors | 4

Credits: 17

Third Year

Fall

SOIL 472 Soil Morphology and Classification | 4
Viewing a Wider World Course | 3
Area IV: Social/Behavioral Sciences Course | 3
Concentration Category Course: Category 4 | 3
PHYS 1230G Algebra-Based Physics I | 3

Credits: 16

Spring

SOIL 456 Irrigation and Drainage | 3
or SOIL 476 or Soil Microbiology | 3
SOIL 424 Soil Chemistry | 3
CHEM 2115 Survey of Organic Chemistry and Laboratory | 4
Concentration Category Course: Categories 1, 2, 3, or 4 | 3
Concentration Category Course: Categories 1, 2, 3, or 4 | 3

Credits: 16

Fourth Year

Fall

SOIL 427 Environmental Soil Physics | 3
Concentration Category Course: Categories 1, 2, 3, or 4 | 3
Concentration Category Course: Categories 1, 2, 3, or 4 | 3

Credits: 12

Spring

SOIL 476 Seminar | 1
SOIL 312 & 312 L Soil Management and Fertility and Soil Management and Fertility Lab | 4
Concentration Category Course: Categories 1, 2, 3, or 4 | 3
Concentration Category Course: Categories 1, 2, 3, or 4 | 3

Credits: 11

Total Credits: 120-122

1 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.

2 Students must two courses from the following, to fulfill degree requirements:

- BIOL 2110G Principles of Biology: Cellular and Molecular Biology
- BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution
- BIOL 311 General Microbiology
The degree requires either MATH 1430G Applications of Calculus I or MATH 1511G Calculus and Analytic Geometry I. Students who do not test into these courses will have additional MATH courses to complete in this semester and where "Elective Courses" are listed in the Roadmap.

Please see your academic advisor for a list of appropriate courses to satisfy the concentration coursework requirements.

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

See the Viewing a Wider World (http://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses.