

PLANT AND ENVIRONMENTAL SOIL SCIENCE - BS, CROPS EMPHASIS

Program Requirements

First Year

| | | Semester Credit Hours |
|---|--|-----------------------------|
| AGEC 105 | Introduction to Agricultural Economics | 3 |
| COMM 203 | Public Speaking | 3 |
| American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹ | | 3 |
| Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ¹ | | 3 |
| Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) ² | | 3 |
| Semester Credit Hours | | 15 |

Fall

| | | |
|---|---|-----------|
| SCSC 205 | Problem Solving in Plant and Soil Systems | 3 |
| American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ¹ | | 3 |
| Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) ¹ | | 3 |
| Government/Political science (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#government-political-science) ¹ | | 3 |
| Mathematics (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics) ² | | 3 |
| Semester Credit Hours | | 15 |

Second Year

Spring

| | | |
|------------------------------|---|---|
| CHEM 222 or CHEM 227 | Elements of Organic and Biological Chemistry (Select one of the following) or Organic Chemistry I | 3 |
| HORT 201 | Horticultural Science and Practices | 3 |
| Select one of the following: | | 4 |
| BIOL 101 | Botany | |
| BIOL 111 | Introductory Biology I | |
| CHEM 120 | Fundamentals of Chemistry II | |
| GEOL 101 & GEOL 102 | Principles of Geology and Principles of Geology Laboratory | |
| PHYS 201 | College Physics | |
| Select one of the following: | | 3 |
| ENTO 201 | General Entomology | |
| ENTO 401 | Principles of Integrated Pest Management | |

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|--|-----------------------------|---|
| PLPA 301 | Plant Pathology | |
| SCSC 446 | Weed Management and Ecology | |
| Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ¹ | | 3 |

Semester Credit Hours 16

Fall

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|---|--|---|
| CHEM 119 | Fundamentals of Chemistry I | 4 |
| Select one of the following: | | 3 |
| ENTO 201 | General Entomology | |
| ENTO 401 | Principles of Integrated Pest Management | |
| PLPA 301 | Plant Pathology | |
| SCSC 446 | Weed Management and Ecology | |
| Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ¹ | | 3 |
| Directed elective ³ | | 3 |

Semester Credit Hours 13

Third Year

Spring

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|--------------------------------|---|---|
| ECCB 205 or SCSC 444 | Fundamentals of Ecology or Forage Ecology and Management | 3 |
| SCSC 304 | Plant Breeding and Genetics | 3 |
| SCSC 309 | Water in Soils and Plants | 4 |
| Directed elective ³ | | 3 |
| General elective | | 3 |

Semester Credit Hours 16

Fall

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|---|--|---|
| SCSC 301 | Soil Science | 4 |
| SCSC 307 | Crop Biology and Physiology | 4 |
| Select one of the following: ⁴ | | 3 |
| RWFM 313 | Vegetation Sampling Methods and Designs in Ecosystems | |
| STAT 201 | Elementary Statistical Inference | |
| STAT 302 | Statistical Methods | |
| Directed elective ³ | | 3 |

Semester Credit Hours 14

Fourth Year

Spring

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| SCSC 410 | International Agricultural Systems | 3 |
| SCSC 441 | Advances in Agronomic Sciences | 3 |
| SCSC 481 | Senior Seminar | 2 |
| General elective | | 7 |

Semester Credit Hours 15

Fall

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|---|---|---|
| SCSC 311 | Principles of Crop Production | 3 |
| SCSC 402 | Crop Stress Management | 4 |
| Select from the following: ⁵ | | 3 |
| SCSC 420 | Brazilian Agriculture and Food Production Systems | |
| SCSC 421 | International Agricultural Research Centers - Mexico | |
| SCSC 484 | Internship | |

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|------------------------------------|----------|------------|
| SCSC 491 | Research | |
| General elective | | 6 |
| Semester Credit Hours | | 16 |
| Total Semester Credit Hours | | 120 |

¹ Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) courses and 3 hours of Cultural Discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>) courses. A course satisfying a Core category, a college/department requirement, or a free elective can be used to satisfy this requirement. Select in consultation with an academic advisor.

² Choose from core curriculum courses with a MATH prefix.

³ To be selected from SCSC 201 and SCSC 300-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/scsc/>) level courses not already required on the degree plan and selected in consultation with an academic advisor.

⁴ Statistics course should be selected in consultation with an academic advisor.

⁵ Students will complete an internship, study abroad or independent research experience.