

DEPARTMENT OF CROP, SOIL, AND ENVIRONMENTAL SCIENCES

Major in Crop, Soil, and Environmental Sciences

Check Sheet for Crop Science (CPSCBS)

2022-2023

University Requirements: 1 hour

- ☐ UNIV 1001 University Perspectives¹

Communications: 15 hours

- ☐ ENGL 1013 Composition I
☐ ENGL 1023 Composition II
☐ ENGL 2003 Advanced Composition **OR**
☐ ENGL 3053 Technical and Professional Writing
☐ COMM 1313 Public Speaking
☐ CSES 3023 Crop, Soil and Environmental Sciences Colloquium

US History or Government: 3 hours

- ☐ HIST 2003 **or** HIST 2013 **or** PLSC 2003

Mathematics and Computer Science: 6 hours

- ☐ MATH 1203 College Algebra or higher
☐ ASTM 2903 AHES Application of Microcomputers **OR**
☐ STAT 2303 Principles of Statistics

Physical and Biological Sciences: 18-23 hours

- ☐ BIOL 1543 Principles of Biology
☐ BIOL 1541L Principles of Biology Lab
☐ BIOL 1613 Plant Biology
☐ BIOL 1611L Plant Biology Lab **OR**
☐ CSES 1203 Introduction to Plant Sciences
☐ CHEM 2613 Organic Physiological Chemistry
☐ CHEM 2613 Organic Physiological Chemistry Lab
☐ CHEM 1073 Fundamentals of Chemistry
☐ CHEM 1071L Fundamentals of Chemistry Lab **OR**
☐ CHEM 1103 University Chemistry I
☐ CHEM 1101L University Chemistry I Lab **AND**
☐ CHEM 1123 University Chemistry II
☐ CHEM 1121L University Chemistry II Lab
☐ BIOL 4303 Plant Physiology **OR**
☐ ANSC 3123 Principles of Genetics **OR**
☐ POSC 3123 Principles of Genetics **OR**
☐ BIOL 2323 General Genetics

Fine Arts/Humanities: 6 hours²

Choose 3 hours from Fine Arts and 3 hours from Humanities:

Check for completion	Course I. D.:	Course Name:
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Social Sciences: 9 hours^{2,3}

- ☐ AGECE 1103 Principles Agri Microeconomics

Check for completion	Course I. D.:	Course Name:
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Departmental Core: 26 hours

General Agronomy:

- ☐ CSES 2103 Crop Science
☐ CSES 2101L Crop Science Lab
☐ CSES 2203 Soil Science
☐ CSES 2201L Soil Science Lab
☐ CSES 4013 Advanced Crop Science
☐ CSES 4224 Soil Fertility
☐ CSES 462V Internship (3 hours) **OR**
☐ CSES 400V Special Problems (3 hours)

Select at least 6 hours from Group A and at least 2 hours from Group B:

Group A

- ☐ CSES 3312 Cotton Production
☐ CSES 3322 Soybean Production
☐ CSES 3332 Rice Production
☐ CSES 3342 Cereal Grain Production

Group B

- ☐ CSES 3214 Soil Resources and Nutrient Cycles
☐ CSES 355V Soil Profile Description (1-2 hours)
☐ CSES 400V Special Problems (1-6 hours)
☐ CSES 4103 Plant Breeding
☐ CSES 4303 Bioenergy Feedstock Production
☐ CSES 4253 Soil Classification and Genesis
☐ ENSC 3103 Plants and Environmental Restoration
☐ ENSC 3263 Soil and Water Conservation
☐ HORT 2303 Intro to Turfgrass Management
☐ PLPA 4333 Biotechnology in Agriculture

Pest Management: 10-11 hours

- ☐ ENTO 3013 Introduction to Entomology
☐ PLPA 3003 Principles of Plant Pathology
☐ PLPA 3003 Principles of Plant Pathology
☐ CSES 4133 Ecology and Morphology of Weedy and Invasive Plants **OR**
☐ CSES 4143 Principles of Weed Control

CPSC Requirements: 9-12 hours

Select one of the following groups for CPSC Requirements (9-12 hours):⁵

Group C – Pest Management: 9 hours

- ☐ CSES 4133 Ecology and Morphology of Weedy and Invasive Plants **OR**
☐ CSES 4143 Principles of Weed Control
☐ PLPA 4223 Plant Disease Control
☐ ENTO 4123 Insect Pest Management

Group D – Agricultural Business: 12 hours⁶

- ☐ AGECE 2303 Introduction Agribusiness
☐ AGECE 3403 Farm Business Management

Check for completion	Course I. D.:	Course Name:
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Group E – Crop Biotechnology (10 hours)

- ☐ CSES 400V Special Problem (2 hours)⁷
☐ CSES 400V Special Problem (2 hours)⁷
☐ PLPA 4333 Biotechnology in Agriculture
☐ BIOL 4303 Plant Physiology **OR**
☐ CHEM 3813 Elements of Biochemistry **OR**
☐ CSES 4103 Plant Breeding

Group F – Soil Science (9-10 hours)

Choose 9-10 hours from the following:

- ☐ CSES 3214 Soil Resources and Nutrient Cycles
☐ ENSC 3263 Soil and Water Conservation
☐ CSES 355V Soil Profile Description⁸
☐ CSES 4253 Soil Classification and Genesis
☐ ENSC 4263 Environmental Soil Science
☐ ENSC 4401 Professional Certification Preparation
☐ CSES 4553 Wetland Soils

Group G – Natural Resources Management (9 hours)

- ☐ ENSC 1003 Environmental Science
☐ ENSC 1001L Environmental Science Laboratory

(Choose 5 hours from the following)

- ☐ ENSC 3003 Introduction to Water Science
☐ AGECE 3413 Principles of Environmental Economics **OR**
☐ ENSC 3413 Principles of Environmental Economics
☐ AGECE 3503 Agricultural Law I
☐ AGECE 3523 Environmental and Natural Resources Law
☐ BIOL 3861L General Ecology Lab
☐ BIOL 3863 General Ecology
☐ CSES 4133 Ecology and Morphology of Weedy and Invasive Plants
☐ CSES 4553 Wetland Soils
☐ CSES 462V Internship (3 hours)
☐ ENSC 3003 Introduction to Water Science
☐ ENSC 3103 Plants and Environmental Restoration
☐ ENSC 3223 Ecosystems Assessment
☐ ENSC 3603 GIS for Environmental Science
☐ ENSC 4021L Water Quality Laboratory
☐ ENSC 4023 Water Quality
☐ ENSC 4033 Analysis of Environmental Contaminants
☐ ENSC 4263 Environmental Soil Science
☐ ENSC 4401 Professional Certification Preparation
☐ GEOS 3043 Sustaining Earth
☐ GEOS 3543 Geospatial Applications and Information Science

General Electives: 10-18 hours

Check for completion	Course I. D.:	Course Name:
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OTHER REQUIREMENTS FOR A B.S.A. DEGREE

120 total semester hours of which:
 9 hrs outside the CSES department but within the Bumpers College
 40 semester hours in upper division courses
 2.00 or higher GPA

¹ UNIV 1001 University Perspectives is required for new freshmen or transfers with less than 24 hours.

² See student degree audit for approved course list

³ At least 3 hours must be outside of AGECE/ECON discipline. Students minoring in Agricultural Business should choose AGECE 2103 for Social Science which, therefore, cannot be used to meet AGBS-minor controlled electives.

⁴ One 3-hr study abroad course may be used in fulfilling the General Agronomy requirement. Student should contact their academic advisor for more information.

⁵ No more than 9 hours can be duplicated between major and minor. Students must declare chosen minor by contacting Bumpers College Student Services at afisdean@uark.edu.

⁶ See student degree audit for approved course list.

⁷ Cannot be taken in same semesters.

⁸ 1 hour of credit, can be taken twice for 2 hours total.