

**DEPARTMENT OF CROP, SOIL, AND ENVIRONMENTAL SCIENCES**  
**Check Sheet for Crop Science Major (CPSCBS)**  
**2020 – 2021**

STUDENT \_\_\_\_\_ STUDENT'S ID \_\_\_\_\_ ADVISOR \_\_\_\_\_

**ENGLISH/COMMUNICATIONS (15 hrs)**

- ENGL 1013  
 ENGL 1023  
 ENGL 2003 or ENGL 3053  
 COMM 1313  
 CSES 3023 CSES Colloquium (FA, JR or SR, COMM 1313)

**US HISTORY OR GOVERNMENT (3 hrs)**

- HIST 2003 or  HIST 2013 or  PLSC 2003

**MATHEMATICS and COMPUTER SCIENCE (6 hrs)**

- MATH 1203  
 AGME 2903 or  STAT 2303

**PHYSICAL AND BIOLOGICAL SCIENCES (18-23 hrs)**

- BIOL 1543 and  BIOL 1541L  
 BIOL 1613 and  BIOL 1611L or  CSES 1203  
 BIOL 4303 or  ANSC/POSC 3123 or  BIOL 2323  
 CHEM 2613 and  CHEM 2611L (CHEM 1073/1071L or CHEM 1123/1121L)

Select One CHEM group (4-8 hrs):

- CHEM 1073 and  CHEM 1071L  
 or  
 CHEM 1103 and  CHEM 1101L (MATH 1203 or higher)  
 CHEM 1123 and  CHEM 1121L (CHEM 1103/1101L)

**FINE ARTS AND HUMANITIES (6 hrs)**

Fine Arts (3 hrs)

Choose one from the following courses:

- ARCH 1003    ARHS 1003    COMM 1003  
 DANC 1003    ENGL 2023    HUMN 2114H  
 LARC 1003    MLIT 1003    MLIT 1013  
 MLIT 1333    THTR 1003    THTR 1013  
 THTR 1013

Humanities (3 hrs)

Choose one from the following courses:

- AAST 2023    ARCH 1013    CLST 1003  
 CLST 1013    COMM 1233    ENGL 1213  
 GNST 2003    HUMN 1124H    HUMN 2124H  
 MRST 2013    MUSY 2003    PHIL 2003  
 PHIL2103    PHIL 2203    PHIL 3103  
 WLIT 1113    WLIT 1123

\_\_\_\_\_ Any Intermediate I Foreign Language

**SOCIAL SCIENCES (9 hrs)**

- AGECE 1103 Agricultural Economics (required)  
 (choose 6 hrs from the following; 3 hrs must be outside AGECE/ECON)\*  
 AGECE 2103\*    ANTH 1023    COMM 1023  
 ECON 2013    ECON 2023    ECON 2143  
 GEOS 1123    GEOS 2003    HDFS 1403  
 HDFS 2413    HIST 1113    HIST 1123  
 HIST 2003    HIST 2013    HUMN 1114H  
 HUMN 2114H    PLSC 2003    PLSC 2013  
 PLSC 2203    PSYC 2003    RESM 2853  
 HDFS 2603    SOCI 2013    SOCI 2033

**DEPARTMENTAL CORE (36 hrs)**

**GENERAL AGRONOMY**

Required Courses (26 hrs):

- CSES 2103 and  2101L Crop Science & lab (SP)  
 CSES 2203 and  CSES 2201L Soil Science & lab (FA, SP, MATH 1203, CHEM 1074 or 1103)  
 CSES 4013 Advanced Crop Science (FA, CSES 2103)  
 CSES 4224 Soil Fertility w/Lab Component (FA, CSES 2203/2201L, CHEM 1123/1121L or CHEM 1073/1071L and CHEM 2613/2611L)  
 CSES 462V Internship or CSES 400V Special Problems (3 hrs)\*\*

Select at least 8 hours from the following two groups, at least 6 hours must be from Group A

**GROUP A**

- CSES 3112 Forage Management (SP-E, CSES 1203 or CSES 2103)  
 CSES 3312 Cotton Production (FA-E, CSES 1203 or CSES 2103)  
 CSES 3322 Soybean Production (SP-O, CSES 1203 or CSES 2103)  
 CSES 3332 Rice Production (FA-O, CSES 1203 or CSES 2103)  
 CSES 3342 Cereal Grain Production (SP-E, CSES 1203 or CSES 2103)

**GROUP B**

- CSES 3214 Soil Res & Nutrient Cycles with lab (SP-O, CSES 2203, BIOL 2013/2011L)  
 CSES 355V Soil Profile Descriptions (1-2 hrs) (FA)  
 CSES 400V Special Problems (1-6 hrs)  
 CSES 4103 Plant Breeding with lab (FA-E, ANSC 3123, or BIOL 2323)  
 CSES 4303 Bioenergy Feedstock Prod (SP, MATH 1203 and BIOL 1543 or CSES 1203)  
 CSES 4253 Soil Classification and Genesis (FA-O, CSES 2203 and CSES 2201L)  
 ENSC 3103 Plants & Env. Restoration (FA, CSES 1203 or HORT 2003 or BIOL 1613)  
 ENSC 3263 Soil and Water Conservation (FA even, CSES 2203)  
 HORT 2303 Intro to Turfgrass Management (FA)  
 PLPA 4333 Biotechnology in Agriculture (FA)

**PEST MANAGEMENT (10-11 hrs)**

- ENTO 3013 Introduction to Entomology (FA) (BIOL 1543/1541L)  
 PLPA 3004 Principles of Plant Pathology (FA)  
 CSES 4133 Ecol & Morph of Weedy/Invasive Species (FA, CSES 2103 or HORT 2003) or  CSES 4143 Prin. of Weed Control with lab (SP) (CHEM 1073/1071L)

**CPSC Specialization**

Select one group (C-G) for CPSC Requirements (9-12 hours). Course selected within major cannot be taken for duplicate credit.\*\*\* Students who wish to declare a minor must contact the Bumpers College Dean's Office.

**GROUP C - Pest Management (9 hours)**

- CSES 4133 Ecol & Morph of Weedy/Invasive Species (FA, CSES 2103 or HORT 2003) or  CSES 4143 Principles of Weed Control (SP, CHEM 1073/1071L)  
 PLPA 4223 Plant Disease Control with lab (FA, PLPA 3004)  
 ENTO 4123 Insect Pest Management (SP-O, ENTO 3013) or  ENTO 4133 Advanced Applied Entomology with lab (SP-E, ENTO 3013)

**GROUP D - Agricultural Business (12 hours)**

- AGECE 2303 Introduction Agribusiness (SP, FA, AGECE 1103 or ECON 2023)  
 AGECE 3403 Farm Business Mgmt (FA, AGECE 1103 or ECON 2023, AGECE 2142, and ASTM 2903)  
 (choose 6 hours from the following)  
 3 hours Core elective hours from approved list in AGBS-Minor  
 3 hours Controlled elective hours from approved list in AGBS-Minor

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**GROUP E - Crop Biotechnology (10 hours)**

- \_\_\_\_\_ CSES 400V Special Problem, (2 2-hour courses taken in two different semesters)
- \_\_\_\_\_ PLPA 4333 Biotechnology in Agriculture

(choose 6 hours from the following)

- \_\_\_\_\_ BIOL 4303 Plant Physiology (FA, BIOL 2533 or CHEM 3813 or CHEM 5843)
- \_\_\_\_\_ CHEM 3813 Introduction to Biochemistry (SP, SU, FA, CHEM 3613/3611L or CHEM 3613H/3612M or CHEM 3713/3712L or CHEM 2613/2611L)
- \_\_\_\_\_ CSES 4103 Plant Breeding (FA even, ANSC/POSC 3123 or BIOL 2323)

**GROUP F - Soil Science (9-10 hours\*\*\*\*)**

- \_\_\_\_\_ CSES 3214 Soil Resources and Nutrient Cycles with Laboratory (SP odd)
- \_\_\_\_\_ ENSC 3263 Soil & Water Conservation (FA)
- \_\_\_\_\_ CSES 355V Soil Profile Description (FA, 1 hour, may take twice for credit)
- \_\_\_\_\_ CSES 4253 Soil Classification and Genesis (FA odd)
- \_\_\_\_\_ ENSC 4263 Environmental Soil Science (SP even)
- \_\_\_\_\_ ENSC 4401 Professional Certification Preparation (Soils exam, SP even)
- \_\_\_\_\_ CSES 4553 Wetland Soils (SP odd)

**GROUP G - Natural Resources Management (9 hours)**

- \_\_\_\_\_ ENSC 1001L Environmental Science Laboratory (FA, SP)
- \_\_\_\_\_ ENSC 1003 Environmental Science (FA, SP)

(choose 5 hours from the following)

- \_\_\_\_\_ ENSC 3003 Introduction to Water Science (SP, MATH 1203, ENSC 1003 or other sci.)
- \_\_\_\_\_ AGECE/ENSC 3413 Principles of Environmental Economics (SP, AGECE 1103 or ECON 2023)
- \_\_\_\_\_ AGECE 3503 Agricultural Law I (FA)
- \_\_\_\_\_ AGECE 3523 Environmental and Natural Resources Law (SP even)
- \_\_\_\_\_ BIOL 3861L General Ecology Lab (FA, BIOL 3863)
- \_\_\_\_\_ BIOL 3863 General Ecology (SP, FA - 7 hours of biological sciences)
- \_\_\_\_\_ CSES 4133 Ecology and Morphology of Weedy and Invasive Species (FA, CSES 2103 (or HORT 03) and CSES 2003).
- \_\_\_\_\_ CSES 4553 Wetland Soils (SP odd, CSES 2203)
- \_\_\_\_\_ CSES 462V Internship
- \_\_\_\_\_ ENSC 3003 Introduction to Water Science (SP, MATH 1203, ENSC 1003 or other sci.)\*\*
- \_\_\_\_\_ ENSC 3223 Ecosystem Assessment (FA even, BIOL 1543)
- \_\_\_\_\_ ENSC 3603 GIS for Environmental Science (SP odd, CSES 2203)
- \_\_\_\_\_ ENSC 4021L Water Quality Laboratory (FA, CHEM 1123/1121L, BIOL 1543/1541L)
- \_\_\_\_\_ ENSC 4023 Water Quality (FA, pre or co-req ENSC 4023)
- \_\_\_\_\_ ENSC 4034 Analysis of Environmental Contaminants w/Lab (SP even, pre or co-req CHEM 2613)
- \_\_\_\_\_ ENSC 4263 Environmental Soil Science (SP even, CSES 3214, PHYS 2013)
- \_\_\_\_\_ ENSC 4401 Professional Certification (SP, junior or senior standing)
- \_\_\_\_\_ GEOS 3043 Sustaining Earth (SP, SU, FA - Junior standing)
- \_\_\_\_\_ GEOS 3543 Geographic Information Science (FA, SP, online)

**GENERAL ELECTIVES (10-18 hours)**

- \_\_\_\_\_ UNIV 1001 University Perspectives\*\*\*\*\*

**OTHER REQUIREMENTS FOR B.S.A. DEGREE:**

120 total semester hours of which:  
 9 hrs outside the Departmental Alpha Code (CSES) within the Bumpers College  
 40 semester hours in upper division courses  
 2.00 GPA

\*Students minoring in Agricultural Business should choose AGECE 2103 in the Social Sciences block and will need to select another course in the list of AGBS-M Controlled Electives (as part of the General Electives for the CPSC major) to fulfill the requirements for the minor.

\*\*One 3-hr study abroad course, either Experiential Learning in Indian Agriculture (Jan) or Sustainability in the Eurozone Agro-Food Chain (May), which are both taken under AFLS 401V/AFLS 401VH, or CSES 462V International Research Internship (SU) may be used in fulfilling the General Agronomy requirement.

\*\*\*No more than 9 hours can be duplicated between major and minor

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