Pathways to General Education (44-47 credits)

1. Discourse
   __ (3, foundational) ENGL 1105: First-Year Writing – F, S
   __ (3, foundational) ENGL 1106: First-Year Writing – F, S, SI, SII
   __ (3, advanced/applied) *ENGL 3764: Technical Writing – F, S, W, SI, SII

2. Critical Thinking in the Humanities
   __ (3) ____________________________________________________________________ - F, S, W, SI, SII
   __ (3) ____________________________________________________________________ - F, S, W, SI, SII

3. Reasoning in the Social Sciences
   __ (3) AAEC 1005: Econ Food Fiber Sys or ECON 2005: Principles of Economics – F, S
   __ (3) AAEC 1006: Econ Food Fiber Sys or ECON 2006: Principles of Economics – F, S

4. Reasoning in the Natural Sciences
   __ (3) *CHEM 1035: General Chemistry – F, S, SI, SII
   __ (1) *CHEM 1045: General Chemistry Laboratory – F, S, SI, SII
   __ (3) *CHEM 1036: General Chemistry – F, S, SI, SII
   __ (1) *CHEM 1046: General Chemistry Laboratory – S, SI, SII

5. Quantitative and Computational Thinking
   __ (3, foundational) - MATH 1014: Precalc with Transcendental – F, S, SI, SII
   __ (3, foundational) ____________________________________________________________________ - F, S, W, SI, SII
   __ (3, advanced) ____________________________________________________________________ - F, S, W, SI, SII

6. Critique and Practice in Design and the Arts
   __ (3, design) ____________________________________________________________________ - F, S, W, SI, SII
   __ (3, arts) ____________________________________________________________________ - F, S, W, SI, SII

7. Critical Analysis of Identity and Equity in the United States
   (may be double-counted with another core concept)
   __ (3) ____________________________________________________________________ - F, S, W, SI, SII

Free Electives (number needed to complete 120 credits)
   __ ( )
   __ ( )
   __ ( )

Common Degree Core Requirements (27 credits)

   __ (1) ALS 1234: CALS First Year Seminar – F
   __ (3) ALCE 3634: Comm Ag & Life in Speaking – F, S, SII
   __ (3) BIOL 1105: Principles of Biology – F, W, SI
   __ (3) CSES 2444: Agronomic Crops - F
   __ (3) *CSES/ENSC 3114 or GEOS 3614: Soils – F
   __ (1) CSES/ENSC 3124 or GEOS 3624: Soils Laboratory - F
   __ (3) CSES/HORT 3444: World Crops & Systems – S
   __ (3) *CSES 4214: Soil Fertility and Management - F
   __ (3) ENSC 1015: Found Environmental Sci- F
   __ (3) ENSC 1016: Found Environmental Sci - S
   __ (4) *PPWS 4104: Plant Pathology - F

Agronomy Option Requirements (24 credits)

   __ (3) *AAEC 2434: Foundations of Agribusiness – F, S
   __ (3) BIOL 1106: Principles of Biology – S, W, SI
   __ (3) *BIOL 2004: Genetics – F, S or *BIOL/HORT 2304: Plant Biology – F, S
   __ (3) *CSES 4144: Plant Breeding and Genetics – S
   __ (3) CSES 4344: Crop Physiology and Ecology - S
   __ (3) CSES 4544: Forage Crop Ecology - S
   __ (3) ENT 4254: Insect Pest Management - S
   __ (3) *PPWS 4604: Biological Invasions - F

Restricted Electives (minimum 15 credits) from approved courses listed on back or credits from an approved minor – see your advisor for approval
   __ (3)
   __ (3)
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Approved
University Registrar
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term(s)</th>
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<tr>
<td>AAEC 3004: Ag Prod &amp; Cons Econ</td>
<td>3</td>
<td>F, S</td>
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<tr>
<td>AAEC 3314: Environmental Law</td>
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<td>AAEC 3504: Marketing Ag Products</td>
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<td>F</td>
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<tr>
<td>AAEC 3604: Agricultural Law</td>
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<td>F</td>
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<tr>
<td>BIOL 2804: Ecology</td>
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<td>F, S, SII</td>
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<td>CSES 2244: Ag Global Food Sec and Health</td>
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<td>CSES 2434: Crop Evaluation</td>
<td>2</td>
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<tr>
<td>CSES 2564: Turfgrass Management</td>
<td>3</td>
<td>F</td>
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<tr>
<td>CSES 3144: Soil Description &amp; Interp</td>
<td>3</td>
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<tr>
<td>CSES/ENSC 3644: Plant for Env Rest</td>
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<tr>
<td>CSES 4134: Soil Genesis &amp; Class</td>
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<tr>
<td>CSES/FREC 4334: Agroforestry</td>
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<tr>
<td>CSES 4354: Advanced Agronomic Crops</td>
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<tr>
<td>ENT/BIOL 3014: Insect Biology</td>
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<td>ENT 3024: Insect Biology Laboratory</td>
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<td>ENT/PPWS 4264: Pesticide Usage</td>
<td>3</td>
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<td>HORT 2234: Envir Factors in Hort</td>
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<tr>
<td>PPWS 2754: Weeds that Shape our World</td>
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**Approved Minors**

- Agribusiness Management
- Agricultural and Applied Economics
- Animal and Poultry Sciences
- Civic Agriculture and Food Systems
- Dairy Science
- Entomology
- Environmental Economics
- Environmental Sciences
- Global Food Security and Health
- Horticulture
- Food Science & Technology
- International Agriculture
- International Trade & Development
- Leadership & Social Change
- Plant Health Sciences
- Turfgrass Management
- Viticulture
- Wetland Science

**NOTE:**

*Some courses listed on the checksheet may have prerequisites; please consult the University Course Catalog or check with your advisor.

By the end of the academic year in which the student has attempted 60 credits (including transfer, advanced placement, advanced standing and credit by examination), "satisfactory progress" toward a B.S. degree in CSES will include:

1. Declaring an option within the CSS major
2. Passing the following:
   - At least 24 credits that apply to the Pathways of General Education
   - CHEM 1035 and 1036
   - ALS 1234, CSES/ENSC 3114 and CSES/ENSC 3124
   - 6 credits of Math

**GPA Requirements:**

- Overall GPA: 2.0 (each semester in order to be in good academic standing)
- In-major GPA: 2.0 (by the time the student graduates)
  - Includes classes in: CSES, ENSC, ENT, HORT, and PPWS

**Language Study Requirement:** A sequence of two foreign language courses is required unless two years of the same high school foreign language or 6 transfer credits of the same foreign language are completed. These credits do not count toward graduation requirements.