College of Agriculture and Life Sciences – Bachelor of Science in Horticulture

Environmental Horticulture Major

Horticulture and Agriculture\(^1\) (34 Credits Total)

<table>
<thead>
<tr>
<th>Required Courses (16 Credits)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ALS 1234 (1)</td>
<td>CALS First Year</td>
<td>f</td>
</tr>
<tr>
<td>HORT 2154 (3)</td>
<td>Spanish for Green Industry</td>
<td>f</td>
</tr>
<tr>
<td>HORT 2224 (2)</td>
<td>Horticulture Science &amp; Ind.</td>
<td>f</td>
</tr>
<tr>
<td>HORT 2234 (3)</td>
<td>Env. Factors in Hort</td>
<td>s</td>
</tr>
<tr>
<td>HORT 2244 (3)</td>
<td>Plant Propagation</td>
<td>s</td>
</tr>
<tr>
<td>HORT 4004 (1)</td>
<td>Horticulture Seminar</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4324 (3)</td>
<td>Greenhouse Mgt (online)</td>
<td>f,s,u1</td>
</tr>
</tbody>
</table>

Options for Additional Requirements

<table>
<thead>
<tr>
<th>Plant Materials (minimum of 5 Credits)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 3325 (3)</td>
<td>Woody Landscape Plants</td>
<td>f</td>
</tr>
<tr>
<td>HORT 3326 (3)</td>
<td>Woody Landscape Plants</td>
<td>s</td>
</tr>
<tr>
<td>HORT 3345 (2)</td>
<td>Herbaceous Landscape Plants</td>
<td>f</td>
</tr>
<tr>
<td>HORT 3346 (2)</td>
<td>Herbaceous Landscape Plants</td>
<td>s</td>
</tr>
<tr>
<td>HORT 3454 (3)</td>
<td>Herb Plants for Eco Landscps</td>
<td>f</td>
</tr>
</tbody>
</table>

Sustainability (minimum of 3 Credits)

| HORT 2134 (3)                        | Plants & Grnsp in Urb Comm. | s          |
| HORT 2184 (3)                        | Plants Places Culture Glob. | s          |
| HORT 2834 (3)                        | Sustainable Ag Practicum | f,s         |

Related Ag Sciences (minimum of 10 credits)

<table>
<thead>
<tr>
<th>CSES 3134 (3)</th>
<th>Soils in the Landscape</th>
<th>s</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSES 3114 (3)</td>
<td>Soils* (must take Lab)</td>
<td>f</td>
</tr>
<tr>
<td>CSES 3124 (3)</td>
<td>Lab for Soils*</td>
<td>f</td>
</tr>
<tr>
<td>ENT 4254 (3)</td>
<td>Insect-Pest Mgt</td>
<td>s</td>
</tr>
<tr>
<td>PPWS 4104 (4)</td>
<td>Plant Pathology*</td>
<td>f</td>
</tr>
</tbody>
</table>

Business Requirements (9 Credits Minimum)

<p>| AAEC 2434 (3)                        | Foundations of Agribusiness* | f,s       |
| AAEC 3454 (3)                        | Small Bus Mgt &amp; Entrep*    | s          |</p>
<table>
<thead>
<tr>
<th>HORT 4614 (3)</th>
<th>Orn Plnt Prod &amp; Marketing</th>
<th>s</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC 2XXX (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKTG 2XXX (3)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Restricted Electives (19 Credit Min) See Back for Selections

CLE Requirements and Options\(^2\) (37 Credits Minimum)

<table>
<thead>
<tr>
<th>Area 1: Writing and Discourse (6 Credits Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1105 (3)</td>
<td>First Year Writing (req)</td>
<td>f,s</td>
</tr>
<tr>
<td>ENGL 1106 (3)</td>
<td>First Year Writing (req)</td>
<td>f,s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area 2: Ideas, Cultural Traditions and Values (6 Credits Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested ALS 4204; FREC 2554</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area 3: Society and Human Behavior (6 Credit Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC 1005 (3)</td>
<td>Econ of Food &amp; Fbr Sys</td>
<td>f,s</td>
</tr>
<tr>
<td>ECON 2005 (3)</td>
<td>Principles of Economics</td>
<td>f,s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area 4: Scientific Reasoning and Discovery (9 Credit Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1105 (3)</td>
<td>Principles of Biology</td>
<td>f</td>
</tr>
<tr>
<td>CHEM 1035 (3)</td>
<td>General Chemistry</td>
<td>f,s</td>
</tr>
<tr>
<td>CHEM 1036 (3)</td>
<td>General Chemistry</td>
<td>f,s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area 5: Quantitative and Symbolic Reasoning (6 Credits Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1014 (3)</td>
<td>Precalc w/Trans Func</td>
<td>f,s</td>
</tr>
<tr>
<td>MATH 1025 (3)</td>
<td>Elem Calc w/Matrices</td>
<td>f,s</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1525 (3)</td>
<td>Precalc w/Trans Func</td>
<td>f,s</td>
</tr>
<tr>
<td>MATH 1526 (3)</td>
<td>Elem Calc w/Matrices</td>
<td>f,s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area 6: Creativity and Aesthetic Experience (1 Credit Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested HORT 2164</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Area 7: Critical Issues in a Global Context (3 Credits Min)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested HORT 2184; HORT 3444; HORT 4794</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Additional Required Humanities (6 Credits)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCE 3634 (3)</td>
<td>Comm Ag &amp; Life Sci Speaking</td>
<td>f,s</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 2004 (3)</td>
<td>Public Speaking</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 2304 (3)</td>
<td>Plant Biology* (s-preferred)</td>
<td>f,s</td>
</tr>
</tbody>
</table>

Free Electives (15 Credits Min)

---

\(^1\) All courses in Horticulture and Agriculture section, plus all other elected Horticulture courses, are included in calculating the in-major GPA. Any core course applies as restricted elective.

\(^2\) Courses that are listed in the CLE section are required. For options for the area requirement optional courses, please consult your advisor and use the CLE guide for qualifying courses.

\(^3\) Area 7 courses may also apply towards another area.
College of Agriculture and Life Sciences – Bachelor of Science in Horticulture
Environmental Horticulture Major

PREREQUISITES – Some courses are marked with an asterisk * noting that they require a prerequisite. Be sure to consult the University Course Catalog and check with your advisor for additional prerequisite and restrictions on courses.

Work with your advisor to choose Restricted Electives from the following course:  

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Title</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC 2104</td>
<td>3</td>
<td>Personal Fin. Planning</td>
<td>f,s</td>
</tr>
<tr>
<td>AAEC 3104</td>
<td>3</td>
<td>Fin Planning for Prof.</td>
<td>f,s</td>
</tr>
<tr>
<td>AAEC 3204</td>
<td>3</td>
<td>Pimental Agr Dev &amp; Trade</td>
<td>f</td>
</tr>
<tr>
<td>AAEC 3314</td>
<td>3</td>
<td>Environmental Law</td>
<td>s</td>
</tr>
<tr>
<td>AAEC 3604</td>
<td>3</td>
<td>Agriculture Law</td>
<td>f</td>
</tr>
<tr>
<td>AAEC 4204</td>
<td>3</td>
<td>Food &amp; Agriculture Policy</td>
<td>f</td>
</tr>
<tr>
<td>AAEC 4404</td>
<td>3</td>
<td>Agric. Mgt. &amp; Prblm. Solv.</td>
<td>s</td>
</tr>
<tr>
<td>ALS 2204</td>
<td>3</td>
<td>Intro to Civic Ag</td>
<td>f</td>
</tr>
<tr>
<td>ALS 3404</td>
<td>3</td>
<td>Ecological Agriculture</td>
<td>f</td>
</tr>
<tr>
<td>ALS 4714</td>
<td>4</td>
<td>Global Seminar</td>
<td>f</td>
</tr>
<tr>
<td>BIOL 1106</td>
<td>3</td>
<td>Principles of Biology</td>
<td>f,s</td>
</tr>
<tr>
<td>BIOL 1115</td>
<td>3</td>
<td>Principles of Biology Lab</td>
<td>f,s</td>
</tr>
<tr>
<td>BIOL 2004</td>
<td>3</td>
<td>Intro to Genetics</td>
<td>f,s</td>
</tr>
<tr>
<td>BIOL 2204</td>
<td>3</td>
<td>Plants &amp; Civilization</td>
<td>f</td>
</tr>
<tr>
<td>BIOL 3204</td>
<td>3</td>
<td>Plant Taxonomy</td>
<td>f</td>
</tr>
<tr>
<td>BSE 2484</td>
<td>3</td>
<td>Engines Power Train</td>
<td>f,s</td>
</tr>
<tr>
<td>CHEM 1045</td>
<td>4</td>
<td>General Chem Lab</td>
<td>f,s</td>
</tr>
<tr>
<td>CHEM 1046</td>
<td>4</td>
<td>General Chem Lab</td>
<td>f,s</td>
</tr>
<tr>
<td>CSES 2444</td>
<td>3</td>
<td>Agronomic Crops</td>
<td>f</td>
</tr>
<tr>
<td>CSES 2564</td>
<td>3</td>
<td>Turfgrass Mgt</td>
<td>f</td>
</tr>
<tr>
<td>CSES 3444</td>
<td>3</td>
<td>Wild Crops &amp; Crop Sys.</td>
<td>s</td>
</tr>
<tr>
<td>CSES 4214</td>
<td>3</td>
<td>Soil Fertility &amp; Mgt</td>
<td>s</td>
</tr>
<tr>
<td>CSES 4214</td>
<td>3</td>
<td>Soil Fertility &amp; Mgt Lab</td>
<td>s</td>
</tr>
<tr>
<td>CSES 4214</td>
<td>3</td>
<td>Soil Fertility &amp; Mgt</td>
<td>s</td>
</tr>
<tr>
<td>ENT 2254</td>
<td>2</td>
<td>Bees &amp; Beekeeping</td>
<td>s</td>
</tr>
<tr>
<td>ENT 2264</td>
<td>2</td>
<td>Bees &amp; Beekeeping Lab</td>
<td>s</td>
</tr>
<tr>
<td>ENT 4264</td>
<td>3</td>
<td>Pesticide Usage</td>
<td>s</td>
</tr>
<tr>
<td>FREC 4454</td>
<td>3</td>
<td>Urban Forest Mgt &amp; Pol.</td>
<td>s</td>
</tr>
<tr>
<td>FST 2014</td>
<td>3</td>
<td>Into to Food Science</td>
<td>f</td>
</tr>
<tr>
<td>HORT 2134</td>
<td>3</td>
<td>Plnts &amp; Gnsps in Urb Com</td>
<td>s</td>
</tr>
<tr>
<td>HORT 2144</td>
<td>3</td>
<td>Indoor Plants</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 2164</td>
<td>3</td>
<td>Floral Design</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 2184</td>
<td>3</td>
<td>Plants Places Culture Glob.</td>
<td>s</td>
</tr>
<tr>
<td>HORT 2834</td>
<td>3</td>
<td>Sustainable Ag Practicum</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 3114</td>
<td>3</td>
<td>Wines &amp; Vines</td>
<td>s</td>
</tr>
<tr>
<td>HORT 3354</td>
<td>3</td>
<td>Urban Forestry &amp; Arbor</td>
<td>f</td>
</tr>
<tr>
<td>HORT 3544</td>
<td>2</td>
<td>Landscape Construction</td>
<td>s</td>
</tr>
<tr>
<td>HORT 3584</td>
<td>1</td>
<td>Landscape Cont. Pract.</td>
<td>f</td>
</tr>
<tr>
<td>HORT 3644</td>
<td>3</td>
<td>Landscape Establishment</td>
<td>f</td>
</tr>
<tr>
<td>HORT 3664</td>
<td>2</td>
<td>Hardscape Mat. &amp; Install</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4205</td>
<td>1</td>
<td>Public Garden maint. &amp; Mgt</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 4206</td>
<td>1</td>
<td>Public Garden maint. &amp; Mgt</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 4324</td>
<td>3</td>
<td>Greenhouse Mgt (online)</td>
<td>fpsd</td>
</tr>
<tr>
<td>HORT 4504</td>
<td>2</td>
<td>Landscape Contracting</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4545</td>
<td>4</td>
<td>Sm. Scale/Resld. Lsp Des.</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 4546</td>
<td>4</td>
<td>Sm. Scale/Resld. Lsp Des.</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 4614</td>
<td>3</td>
<td>Orn. Plant Prod. &amp; Mkgt</td>
<td>s</td>
</tr>
<tr>
<td>HORT 4644</td>
<td>3</td>
<td>Small Fruits</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4654</td>
<td>3</td>
<td>Viticulture</td>
<td>s</td>
</tr>
<tr>
<td>HORT 4744</td>
<td>3</td>
<td>Plant Estab &amp; Environ Des.</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4764</td>
<td>3</td>
<td>Vegetable Corps</td>
<td>f,s</td>
</tr>
<tr>
<td>HORT 4784</td>
<td>3</td>
<td>Vegetable Seed Production</td>
<td>s</td>
</tr>
<tr>
<td>HORT 4794</td>
<td>3</td>
<td>Medicinal Plants &amp; Herbs</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4835</td>
<td>2</td>
<td>Organic Veg Prod</td>
<td>f</td>
</tr>
<tr>
<td>HORT 4845</td>
<td>1</td>
<td>Organic Veg Prod Lab</td>
<td>f</td>
</tr>
<tr>
<td>LAR 4034</td>
<td>3</td>
<td>Evol. American Landscape</td>
<td>s</td>
</tr>
<tr>
<td>MGT 3304</td>
<td>3</td>
<td>Mgt Th &amp; Lead Pract</td>
<td>f,s</td>
</tr>
<tr>
<td>MKTG 3014</td>
<td>3</td>
<td>Marketing Management</td>
<td>f</td>
</tr>
<tr>
<td>MKTG 3504</td>
<td>3</td>
<td>Advertising</td>
<td>f,s</td>
</tr>
<tr>
<td>PPWS 2104</td>
<td>3</td>
<td>Domest the Gene</td>
<td>s</td>
</tr>
<tr>
<td>PPWS 3505</td>
<td>3</td>
<td>Pmt Physiology &amp; Env</td>
<td>f,s</td>
</tr>
<tr>
<td>PPWS 3506</td>
<td>3</td>
<td>Pmt Physiology &amp; Env</td>
<td>f,s</td>
</tr>
<tr>
<td>PPWS 4754</td>
<td>3</td>
<td>Weed Sci; Princ. &amp; Pract.</td>
<td>f</td>
</tr>
<tr>
<td>SPAN 1105</td>
<td>3</td>
<td>Elementary Spanish</td>
<td>f,s</td>
</tr>
<tr>
<td>SPAN 1106</td>
<td>3</td>
<td>Elementary Spanish</td>
<td>f,s</td>
</tr>
</tbody>
</table>

Eligibility for Continued Enrollment

By the end of the academic year in which the student has attempted 72 hours (including transfer, advanced placement, advanced standing, and credit by examination), “satisfactory progress” towards a B.S. degree in Environmental Horticulture Major will include the following minimum criteria:

- MATH 1014 & 1025
- CHEM 1035 & 1036
- HORT 2224 or 2234 or 2244
- GPA of at least 2.0, overall and in-major
- 6 credits additional HORT (including those not applied above)
- 6 credits from CSES 3114 or 3134, ENT 4254, PPWS 4104

NOTE: 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 towards graduation requirements.

Total credits required for graduation is 120 with a required minimum GPA overall and in-major of 2.0 or higher.

*Any course applied as Area 2 or 7, Business, or HORT elective may NOT also count as a Restricted Elective.*