Bachelor of Science in Horticulture

Horticulture is the profession that nurtures, produces, installs, and maintains the built landscape, and protects, restores, and manages existing and natural landscape resources. The Temple horticulture curriculum is built on a strong scientific foundation that includes both technical course work and hands-on learning experience. In order to broaden and deepen knowledge and understanding of the natural and cultural world, students also receive solid education in the liberal arts.

Our unique curriculum is one of the few undergraduate programs in which horticulture and landscape architecture are integrated. This relationship allows students to gain a greater understanding of the full range of the landscape process, which includes design, plant production, installation, and management of the urban and suburban landscape. They learn the relationships between horticulture, technology, and natural ecological processes, and develop a responsible horticultural approach toward the environment. The department encourages students to consider ways to eliminate many outmoded, environmentally damaging practices such as over-dependence on pesticides, herbicides, and irrigation, and use of harmful, invasive plants.

Graduates find exciting professional opportunities in landscape contracting, restoration, and management; wholesale or retail nurseries; urban forestry; floriculture; public horticulture; garden restoration; horticultural therapy; and interior plantscaping. Research, teaching and extension are also rewarding areas within the horticulture profession.

Courses for the Bachelor of Science in Horticulture are offered at the Ambler Campus with a portion of the coursework also available on Temple’s Main and Center City campuses.

Rashida Ng, Chair, Architecture and Environmental Design
Tyler School of Art and Architecture
Architecture Building, Room 204
2001 N. 13th Street
Philadelphia, PA 19122
215-204-8813
rashida.ng@temple.edu

Sasha W. Eisenman, Ph.D., Program Head, Landscape Architecture and Horticulture
Tyler School of Art and Architecture
201 Dixon Hall
580 Meetinghouse Road
Ambler, PA 19002
267-468-8168
eisenman@temple.edu

Summary of Requirements for the Degree

The degree of Bachelor of Science in Horticulture may be conferred upon a student by recommendation of the faculty and upon the satisfactory completion of a minimum of 124 semester hours of credit with a minimum cumulative GPA of 2.0 overall and in the major.

University Requirements

- MATH 0701 (4 s.h.) and/or ENG 0701 (4 s.h.), if required by placement assessment.
- All Temple students must take a minimum of two writing-intensive courses as part of the major. LARC 2496 and HORT 4896 are the specific writing-intensive courses required for Horticulture majors.
- Students must complete the requirements of the General Education (GenEd) program (29-30 s.h.)
  - Earning a minimum grade of C- in CHEM 1021 & CHEM 1023 and CHEM 1022 & CHEM 1024 will waive both GenEd Science & Technology (GS) requirements.
  - Summer or semester study abroad will satisfy the GenEd Global/World Society (GG) requirement.

Major Requirements

No more than one grade below a C- is allowed in any course in either Landscape Architecture or Horticulture.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 1111</td>
<td>General Botany (fall only)</td>
<td>4</td>
</tr>
<tr>
<td>BOT 1112</td>
<td>Plant Ecology (spring only)</td>
<td>3</td>
</tr>
<tr>
<td>BOT 2121</td>
<td>Plant Physiology (spring only)</td>
<td>4</td>
</tr>
<tr>
<td>BOT 3122</td>
<td>Applied Plant Physiology (fall only)</td>
<td>3</td>
</tr>
</tbody>
</table>
Bachelor of Science in Horticulture

**CHEM 1021 & CHEM 1023**
Introduction to Chemistry I and Introduction to Chemistry Laboratory I (fall only)

**CHEM 1022 & CHEM 1024**
Introduction to Chemistry II and Introduction to Chemistry Laboratory II (spring only)

**HORT 1211**
Woody Plants I (fall only)

**HORT 1212**
Woody Plants II (spring only)

**HORT 1566**
Horticulture Business Management

**HORT 2114**
Soils (spring only)

**HORT 2221**
Herbaceous Plants I (fall only)

**HORT 2222**
Herbaceous Plants II (spring only)

**HORT 2323**
Greenhouse Management (fall only)

**HORT 2324**
Plant Propagation (spring only)

**HORT 2334**
Food Crops I (spring only)

**HORT 2575**
Introduction to Public Horticulture

**HORT 3423**
Applied Entomology (fall only)

**HORT 3424**
Applied Plant Pathology (spring only)

**HORT 3514**
Landscape Restoration (spring only)

**HORT 3523**
Landscape Management (fall only)

**HORT 4896**
Senior Seminar (Capstone (WI), fall only)

**LARC 2496**
Landscape Traditions (WI)

Select four of the following:

- Landscape Architecture Elective (LARC 1000-level or higher)
- Horticulture Elective (HORT 1000-level or higher)
- Botany Elective (BOT 1000-level or higher)

**Total Credit Hours** 82

### Suggested Academic Plan

Please note that this is a suggested academic plan. Depending on your situation, your academic plan may look different.

### Bachelor of Science in Horticulture

**Requirements for New Students starting in the 2020-2021 Academic Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 1111</td>
<td>General Botany (F)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1021&amp; CHEM 1023</td>
<td>Introduction to Chemistry I (F)</td>
<td>4</td>
</tr>
<tr>
<td>ENG 0802, 0812, or 0902</td>
<td>Analytical Reading and Writing [GW]</td>
<td>4</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 1112</td>
<td>Plant Ecology (S)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1022 &amp; CHEM 1024</td>
<td>Introduction to Chemistry II (S)</td>
<td>4</td>
</tr>
<tr>
<td>IH 0851 or 0951</td>
<td>Intellectual Heritage I: The Good Life [GY]</td>
<td>3</td>
</tr>
<tr>
<td>GenEd Quantitative Literacy Course [GQ]</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GenEd Breadth Course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Credit Hours** 15

**Spring**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
</table>

**Term Credit Hours** 17
### Year 2

#### Fall

- **HORT 1211**: Woody Plants I (F)  
- **HORT 2323**: Greenhouse Management (F)  
- **GenEd Breadth Course**:  
- **IH 0852 or 0952**: Intellectual Heritage II: The Common Good [GZ]  
- Select one of the following:  
  - Horticulture Elective (HORT 1000-level or higher)  
  - Landscape Architecture Elective (LARC 1000-level or higher)  
  - Botany Elective (BOT 1000-level or higher)

**Term Credit Hours**: 15

#### Spring

- **BOT 2121**: Plant Physiology (S)  
- **HORT 1212**: Woody Plants II (S)  
- **HORT 2114**: Soils (S)  
- **HORT 2324**: Plant Propagation (S)  
- **HORT 2575**: Introduction to Public Horticulture

**Term Credit Hours**: 16

### Year 3

#### Fall

- **GenEd Breadth Course**:  
- **HORT 2221**: Herbaceous Plants I (F)  
- **HORT 3523**: Landscape Management (F)  
- **LARC 2496**: Landscape Traditions [WI] (F)  
- Select one of the following:  
  - Horticulture Elective (HORT 1000-level or higher)  
  - Landscape Architecture Elective (LARC 1000-level or higher)  
  - Botany Elective (BOT 1000-level or higher)

**Term Credit Hours**: 15

#### Spring

- **HORT 2222**: Herbaceous Plants II (S)  
- **HORT 2334**: Food Crops I (S)  
- **HORT 3514**: Landscape Restoration (S)  
- **GenEd Breadth Course**:  
- **HORT 1566**: Horticulture Business Management

**Term Credit Hours**: 15

### Year 4

#### Fall

- **BOT 3122**: Applied Plant Physiology (F)  
- **HORT 3423**: Applied Entomology (F)  
- **HORT 4896**: Senior Seminar [WI] (Capstone, F)  
- Select one of the following:  
  - Horticulture Elective (HORT 1000-level or higher)  
  - Landscape Architecture Elective (LARC 1000-level or higher)  
  - Botany Elective (BOT 1000-level or higher)  
- **Elective**:  

**Term Credit Hours**: 16

#### Spring

- **HORT 3424**: Applied Plant Pathology (S)  
- Select one of the following:  
  - Horticulture Elective (HORT 1000-level or higher)  
  - Landscape Architecture Elective (LARC 1000-level or higher)
Botany Elective (BOT 1000-level or higher)

Electives

<table>
<thead>
<tr>
<th>Term Credit Hours</th>
<th>9</th>
</tr>
</thead>
</table>

Total Credit Hours: 15

Satisfactory completion of CHEM 1021, CHEM 1022, CHEM 1023, and CHEM 1024 will waive the two-course GenEd Science (GS) requirement.

1