BS in Plant Sciences with Emphasis in Horticultural Science and Design

Degree Program Description
From the food on our plates to the homes we live in to the fuel in our vehicles, plants impact all aspects of our daily lives. As an ever-growing human population continues to increase the demand for crops and other plant products, so too does the demand for plant scientists. Plant Sciences addresses the challenges from the field to the laboratory. Students enroll in a generalized core curriculum, then further refine their expertise in the Horticultural Science and Design emphasis area. The beauty of attractive indoor plant displays or ornamental species in landscapes adds value and satisfaction. Appreciating the plants around us and designing new ways to present them can lead to careers in nursery management, landscape designer, zoo groundskeeper, or botanic gardener. Students in this area learn the basics in the classroom and advance their skills working locally (greenhouses, landscape firms) or abroad (Epcot Center, MO Botanical Gardens). Horticulturists use their knowledge of plant growth to sustainably produce flowers, vegetables and ornamental plants to enhance the environment. Careers include careers in landscapes adds value and satisfaction. Appreciating the plants around us and designing new ways to present them can lead to careers in nursery management, landscape designer, zoo groundskeeper, or botanic gardener. Students in this area learn the basics in the classroom and advance their skills working locally (greenhouses, landscape firms) or abroad (Epcot Center, MO Botanical Gardens). Horticulturists use their knowledge of plant growth to sustainably produce flowers, vegetables and ornamental plants to enhance the environment. Careers include

Major Program Requirements
Students are required to completed the BS in Plant Sciences (http://catalog.missouri.edu/undergraduategraduate/collegeofagriculturefoodandnaturalresources/plantsciences/bs_in_plant_sciences) major program requirements in addition to the emphasis area requirements.

Emphasis Area Requirements
Trees, flowers and other ornamental plants add beauty to our landscape, preserve green space, and reduce the negative impacts of climate change. Other plants such as vegetables and fruits enhance human health. Career opportunities exist to design landscapes, improve the value and beauty of homes and businesses, as well as commercially grow horticultural crops in greenhouses and other settings.

Horticultural Science & Design Emphasis Area Requirements

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<tr>
<th>Course Code</th>
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<td>Atoms and Molecules with Lab</td>
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<td>PLNT_S 2075</td>
<td>Environmental Horticulture</td>
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<tr>
<td>PLNT_S 2210</td>
<td>Ornamental Woody Plants</td>
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<td>PLNT_S 2215</td>
<td>Ornamental Herbaceous Plants</td>
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<td>PLNT_S 3250</td>
<td>Green Industry Bidding</td>
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<tr>
<td>PLNT_S 3355</td>
<td>Introductory Turfgrass Management</td>
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Select five:

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<td>Genetics of Agricultural Plants and Animals</td>
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<td>Special Occasion Floral Design</td>
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<td>Landscape AutoCAD</td>
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<td>Soil Fertility and Plant Nutrition</td>
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Total 30-38

Semester Plan
Below is a sample plan of study, semester by semester. A student's actual plan may vary based on course choices where options are available.

First Year

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Total 30-38
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Total Credits: 120