

Plant Sciences, BS with Horticultural Science and Design Emphasis

University of Missouri - Columbia

Johnson County Community College Transfer Program to the University of Missouri - Columbia	College of Agriculture, Food & Natural Resources (CAFNR)
College of Agriculture, Food & Natural Resources (CAFNR)	573-882-8301
Plant Sciences, BS	CAFNRadvising@missouri.edu
Academic Year 2024-2025	https://majors.missouri.edu/plant-scienceshorticultural-science-and-design-bs/

Program Description

The Associate of Arts, AA (<https://catalog.jccc.edu/degree/requirements/associate-arts/>) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the AA may select courses that satisfy both the AA degree requirements and lower division requirements for a bachelor's degree at four-year institutions. The elective hours within the AA allow students to complete additional general education and lower division courses required for specific majors. The AA degree requires completion of 60 credit hours. Meeting with a JCCC counselor (<https://www.jccc.edu/student-resources/counseling/academic-counseling/>) is strongly recommended for selection of appropriate courses.

Students earning a Bachelor of Science in Plant Sciences are required to complete all University general education (<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fmissouri-columbia%2Fmissouri-columbia-general-education%2F&data=05%7C02%7Cskhalif2%40jccc.edu%7C3bbbe8fc84564328cf7008de1320415e%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638969226426519825%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIlwLjAuMDAwMCIsIiAiOiJXaW4zMilSkFOljoiTWFpbCIsIldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=GCuUlhjS9ebM%2BYIWmxhe8VZ4BROWq7DEbEVxVgAfDWw%3D&reserved=0>), University graduation (<https://catalog.missouri.edu/academicdegree/requirements/universityrequirements/>) (see below), and degree requirements, including selected foundational courses, which may fulfill some University general education requirements. Students must select at least one emphasis area (<https://catalog.missouri.edu/collegeofagriculturefoodandnaturalresources/plantsciences/#undergraduatetext>) for a degree in Plant Sciences. Visit the University General Education guide (<https://nam12.safelinks.protection.outlook.com/?url=http%3A%2F%2Fnextcatalog.jccc.edu%2Ftransfer-guides%2Fmissouri-columbia%2Fmissouri-columbia-general-education%2F&data=05%7C02%7Cskhalif2%40jccc.edu%7C3bbbe8fc84564328cf7008de1320415e%7C15244239dcf245e7aefd127b69fc5438%7C1%7C0%7C638969226426519825%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIlwLjAuMDAwMCIsIiAiOiJXaW4zMilSkFOljoiTWFpbCIsIldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=GCuUlhjS9ebM%2BYIWmxhe8VZ4BROWq7DEbEVxVgAfDWw%3D&reserved=0>) requirements with JCCC equivalents. If you are planning to transfer courses (including AP credit) and would like to information on how they apply to this degree, you can email CAFNRadvising@missouri.edu for general recommendations.

Admission Requirements

Undergraduate (University) Requirements - Undergraduate students must complete all University requirements as well as all requirements specified for the degree(s) and major(s), and requirements of the college or school, and department offering the degree. This would include the University general education requirements as well as the following:

- A second MU Writing Intensive course (must be completed with a grade of C- or better) must be completed in a student's major. It needs to be a 3000/4000 level MU WI course approved as part of the curriculum by the faculty of a student's major.
- Complete an approved capstone course* with MU course work in the student's major.
- Complete a minimum of 30 credit hours in MU-authored courses.
- Complete no fewer than 120 credit hours of coursework.
- Earn no less than a 2.00 GPA, as defined by the GPA of Record.
- Pass the Missouri Higher Education Civics Achievement Examination with a score of seventy percent or greater.

MU Plant Sciences, BS Requirements

Course Code Code	Course Title Title	Course Hours Hours	Transfer Code	Transfer Title	Transfer Hours
Foundational Courses					
BIOL 125	General Botany	5	BIO_SC 1200	General Botany w/ Laboratory	5
Select one of the following:					
CHEM 124 & CHEM 125	General Chemistry I Lecture* and General Chemistry I Lab*	4	CHEM 1400 & CHEM 1401	College Chemistry I and College Chemistry I Lab	1
CHEM 122	Principles of Chemistry*	5	CHEM 1100	Atoms and Molecules with Lab	
Select one of the following:					
ECON 230	Principles of Macroeconomics	3	ECONOM 1015	Principles of Macroeconomics	3
ECON 231	Principles of Microeconomics	3	ECONOM 1014 & ECONOM 4	Principles of Economics and Principles of Microeconomics	3
HORT 260	Horticulture Soils	3	SOIL 2100	Introduction to Soils	
MATH 171	College Algebra*	3	MATH 10 & MATH 1100	College Algebra and College Algebra	3

Course Code Code	Course Title Title	Course Hours Hours	Transfer Code	Transfer Title	Transfer Hours
Horticultural Science & Design Emphasis Area Requirements					
HORT 115	Home Horticulture	2	PLNT_SCI 2075	Environmental Horticulture	
Select one of the following:					
HORT 214	Woody Plants, Deciduous	3	PLNT_SCI 2210	Ornamental Landscape Plants I	
HORT 215	Woody Plants, Evergreens	3	PLNT_SCI 2210	Ornamental Landscape Plants I	
HORT 220	Herbaceous Plants	3	PLNT_SCI 2215	Ornamental Landscape Plants II	
Select five courses from the following:					
HORT 135	Landscape Design	3	HORT 135	Landscape Design	