



Plant Systems Pathway

CIP CODE 01.1101

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.
2. Includes a work-based element.
3. Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
* ● Introduction to Agriculture	18001	1
* ● Exploratory Agriculture	68001	1

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1
* ● Horticulture	18052	1
* ● Plant and Soil Science	18058	1

APPLICATION LEVEL

Title	Code	Credit
Internship	18048	1
Advanced Internship	18049	1
* ● Floriculture and Greenhouse Management	18057	1
* ● Applications in Horticulture	18071	1
* ● Crop and Range Management	18081	1
Agricultural Business	18201	1
Agricultural Entrepreneurship	18202	1
Agricultural Leadership and Communications	18203	1
Research in Agriculture	18206	1

Pathway Design prior to Cluster Review

- * Required courses in pathway approval.
- Must choose **ONE** of the required courses in each level for pathway approval.



AGRICULTURE, FOOD AND NATURAL RESOURCES CAREER CLUSTER DESIGN

Plant Science and Industry Operations

CIP CODE 01.0000

APPROVED PATHWAY:

1. Includes a minimum of three secondary-level credits.
2. Includes a work-based element.
3. Consist of a sequence:
 - Introductory-level course.
 - Technical-level course.
 - Application-level course.
4. Supporting documentation includes:
 - Articulation Agreement(s).
 - Certification.
 - Program Improvement Plan.
 - Program of Study.
5. Technical-level and Application-level courses receive .5 state weighted funding in an approved CTE pathway.

INTRODUCTORY LEVEL

Title	Code	Credit
\$Agriculture Explorations I	68001	0.5
^#Agriculture Explorations II	68002	0.5
\$Introduction to Agriculture	18001	1.0

TECHNICAL LEVEL

Title	Code	Credit
Agriscience	18002	1.0
\$Horticulture	18052	1.0
\$Plant and Soil Science	18058	1.0
\$Plant and Animal Science	18301	1.0

APPLICATION LEVEL

Title	Code	Credit
\$Crop and Range Management	18081	1.0
\$Horticulture, Floriculture, and Greenhouse Management	18057	1.0
\$Nursery and Landscape Operations	18067	1.0
^#Advanced Plant and Animal Science	18302	1.0
Agricultural Internship	18048	1.0
Advanced Agricultural Internship	18049	1.0
Agribusiness Management	18201	1.0
Agricultural Entrepreneurship	18202	1.0
Agricultural Leadership and Communications	18203	1.0
Research in Agriculture	18206	1.0

Proposed Pathway Design after Cluster Review

Has as specific prerequisite course.

\$ ONE of the courses marked \$ in this section is required.

^ Courses marked ^ have a required prerequisite of either 18001 or 18002

Pathway Recommendations Summary:

General Changes to Pathway

- Recommended name change for pathway:
 - New Pathway name to reflect the growing demand for occupations associated with plant science and horticulture.

No Recommend Changes [CTE Course Competencies and Indicators \(ksde.org\)](https://ksde.org)

- Courses not reviewed by this committee.
- Courses Reviewed with no changes.
 - 18048 Agricultural Internship (recommended name change from Ag Internship.)
 - 18049 Advanced Agricultural Internship (recommended name change from Advanced Internship.)
 - 18202 Agricultural Entrepreneurship.
 - 18058 Plant and Soil Science.

Courses Reviewed with Recommended Changes

- Courses being removed from the pathway.
 - 18071 Applications in Horticulture.
- Courses with updated competencies and benchmarks.
 - 68001 Agriculture Explorations I (recommended name change from Exploratory Agriculture) – competencies updated and revised as a .5 credit course. Will serve as prerequisite for new course 68002 Agriculture Explorations II .5 credit course.
 - 18001 Introduction to Agriculture – competencies updated and revised. Prerequisite option for lab courses in which safety is a concern.
 - 18002 Agriscience – competencies updated and revised. Prerequisite option for lab courses in which safety is a concern.
 - 18052 Horticulture – competencies updated and revised.
 - 18057 Horticulture, Floriculture and Greenhouse Management (recommended name change) – reviewed and combines the more relevant competencies from Floriculture and Greenhouse Management and 18071 Applications in Horticulture.
 - 18081 – Crop and Range Management – competencies updated and revised.
 - 18201 Agribusiness Management (recommended name change from Agricultural Business) – competencies updated and revised.
 - 18203 Agricultural Leadership and Communications – competencies updated and revised.
 - 18206 Research in Agriculture – competencies updated and revised.

New Course Recommendations

- Courses recommended to be added to this Pathway.
 - 18301 Plant and Animal Science – competencies updated and revised.
 - 18302 Advanced Plant and Animal Science – competencies updated and revised. 18301 Plant and Animal Science prerequisite.
- NEW courses developed and recommended to be added to this Pathway.
 - 68002 Agriculture Explorations II – Introductory course for middle grades, (prerequisite of 68001 required) .5 credit course.

- 18067 Nursery and Landscape Operations (recommended name change from Nursery and Landscape Management but keep the KCCMS course number) – Updated competencies, focusing on skills needed for nursery production as well as landscape development and maintenance.