

Transfer Model Curriculum Worksheet

CCC Major or Area of Emphasis: Agriculture Science, Environmental Horticulture, Plant Science

CSU Major: Agriculture, Agricultural and Environmental Plant Sciences, Agricultural Science, Plant Science, Agriculture Education, Agriculture Studies

Total units 19-29 (all units are semester units)

Degree Type (indicate one): AS-T X

Required Core Courses:

16-17 units

Title (units)	C-ID Designation	Rationale
Introduction to Soil Science (3 units)	AG-PS 128L	GE Requirement, Major Preparation
Introduction to Chemistry (4 units) OR General Chemistry for Science Majors I, with Lab (5 units)	CHEM 101 OR CHEM 110	GE Requirement
Agriculture Economics (3 units) OR Principles of Microeconomics (3 units)	AG-AB 124 OR ECON 201	Major Preparation, GE Double Counter
Introduction to Statistics (3 units)	MATH 110	GE Requirement
Introduction to Plant Science (3 units) OR Introduction to Plant Sciences (with Laboratory) (3 units)	AG-PS 104 OR AG-PS 106L	Major Preparation and GE Requirement

List A: Select 1 course (3-4 units) from the following:

Plant Propagation/Production (3 units)	AG-EH 116L	Major Preparation
Tractor Operation (3 units)	AG-MA 108L	Major Preparation
Plant Materials and Usage I (3 units)	AG-EH 108L	Major Preparation
Plant Materials and Usage II	AG-EH 112L	Major Preparation

Accepted by ICFW November, 2013.

Minor corrections made on 1/8/2014;

5/15/2014 removed notation of "Under review" on AG descriptors.

7/29/14 AG-EH 116L added back to List A – it had been removed in error.

10/22/14 AG-PS 106L added back to CORE—it was removed in error.

(3 units)		
Organic Chemistry for Science Majors I, with Lab (4 units)	CHEM 150	This course may only be included as an option if CHEM 110 is required or included as an option.

List B: Select up to 8 additional units (0-8 units)

Any course(s) not selected above, and/or any courses that are lower division preparation for the targeted major at a university.		Additional Major Preparation
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C-ID and Articulation Requirement Summary

List	Requirement
Core	C-ID
List A	C-ID
List B	C-ID (from above) or major preparation

FDRG Summary

This TMC generated some controversy during vetting as each major requires different courses for lower division preparation. However the group was charged with limiting the number of TMCs generated and with this in mind the TMC for Plant Science was developed with the idea that it could serve students majoring in either plant science or environmental horticulture.

The TMC represented here remains unchanged from the version that was vetted even though not all responses were favorable. The FDRG felt that overall the response to the TMC was positive, with more than 75% of respondents saying that it was appropriate as a major area of emphasis for the plant science or environmental horticulture majors and that this TMC would provide appropriate preparation for transfer. The FDRG felt that the response from vetting was adequate with 22 different community colleges and 6 CSUs represented. In addition the FDRG well represents the diversity of California Community College (CCC) programs in Agriculture and Natural Resources with faculty from both small and large programs and from several different regions within California. The group also had good representation from four of the main California State Universities (CSU) where CCC students would transfer with these major.

There were many comments regarding the lack of crop production coursework in the current document. The FDRG felt strongly that the regional nature of crop coursework

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and the prevalence of these courses in upper division at the CSU would preclude any one course from being identified. Crop Production coursework can easily be included in the List B section as a requirement of any subsequent AS-T and will allow colleges to take advantage of regional curricula and local articulation agreements with CSUs. It was the intent of the FDRG that List B provide flexibility so that the CCC developing the AS-T for their campus could decide what would best serve their students and they could either have students take courses not taken from list A or take an additional class that articulated to their local CSU that would serve as major preparation for the plant science or environmental horticulture major.

Another concern brought up during the vetting was the inclusion of the Tractor Operations course (AGMA 108L) in List A. The FDRG determined that this was just one course out of several course options and it was a course that was required in CSU plant science majors so it was left as an option. The group felt there was enough flexibility in List A that the CCC program could develop an AS-T from this TMC and have it either emphasize plant science or environmental horticulture depending on their program emphasis and their articulation of courses to their local CSU.

Some other concerns raised during the vetting had to do with the amount of general education and science classes included in the TMC. The feedback from the CSU faculty was that if students did not have Chemistry and Math requirements fulfilled at the CCC it was difficult for the student to complete their degree in 120 units. The FDGR strongly recommends that the CCC programs developing an A-ST from this TMC include both Chemistry and Soil Science in their A-ST.

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