Code # AG11

**Bulletin Change Transmittal Form**

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| **Bulletin Change** Please attach a copy of all catalogue pages requiring editorial changes. |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (If applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

**1.Contact Person** (Name, Email Address, Phone Number)

J Kim Pittcock, [kpittcoc@astate.edu](mailto:kpittcoc@astate.edu); 870-972-2847

**2.Proposed Change**

Change the following courses from to Demand to a specific semester:

PSSC 3333 Plant Breeding, Spring, odd

PSSC 4713 Soil Quality Assessment and Interpretation, Fall even

PSSC 4822. Environmental Factors Affecting Plant Growth, Fall odd

**3.Effective Date**

Spring 2014

**4.Justification**

Courses need to state the specific semester they are offered in the Bulletin.

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**PSSC 3333. Plant Breeding** History of plant improvement, methods of plant breeding, and the basic application of these methods to various agronomic and horticultural crops. ~~Demand~~ Spring, odd.

**PSSC 3503. Agriculture Spatial Technologies I** Basic understanding and utilization of data collection and assessment using global position system receivers, direct and remote sensing, and geographic information system software related to crop production and nutrient management. Prerequisite, PSSC 2813. Fall.

**PSSC 3513. Agriculture Spatial Technologies II** The course will concentrate on a study of the electromagnetic properties of earth objects, vegetation, soils, water, and, the principles and operations of different sensors used to measure this energy. Prerequisite, PSSC 3503. Spring.

**PSSC 3802. Pasture and Forage Crops** Introduction to important forage and pasture crops in the mid south region. Discussions will include cropping systems, plant growth and develop­ment, physiology, and environmental considerations. Prerequisite, PSSC 1303. Fall, odd.

**PSSC 4313. Plant Growth and Development** Auxins, gibberellins, and various other regulators of plant growth, also phenomena such as flowering and dormancy. Prerequisites, CHEM 1052, HORT 2253 and PSSC 1303. Fall.

**PSSC 4342. Seed Analysis and Processing** Techniques and principles of seed analysis and grading, methods of producing and processing quality seeds and seed stocks. Demand.

**PSSC 4513. Plant Biotechnology** Course materials will address the why and how of plant gene transfer plus the issues involved in making those plants part of the agricultural landscape. Dual listed as PSSC 5513. Prerequisite: AGRI 2213 or BIOL 3013 or permission of instructor. Spring.

**PSSC 4713. Soil Quality Assessment and Interpretation** A study of the indicators of soil quality, documentation and measurement of soil quality, interpretations of soil quality, impacts and effects of management of soil quality, and the role of conservation planning in improving soil quality. Pre­requisite, PSSC 2813. ~~Demand~~. Fall, Even.

**PSSC 4804. Principles of Crop Production** Introduction to agronomic cropping systems which includes production systems, concepts related to crop selection and genetics, establishment and management of the crop, and harvest management. Environmental issues related to crop produc­tion and sustainability are also evaluated. Prerequisites, PSSC 1303 and PSSC 2813. Spring, Odd.

**PSSC 4813. Soil Fertility** Principles involved in maintaining and increasing fertility of soil. Pre­requisite, PSSC 2813, CHEM 1013, and CHEM 1011. Spring, even.

**PSSC 4822. Environmental Factors Affecting Plant Growth** Affect of environmental factors on growth of important crop species. Primary emphasis will be on water utilization, solar irradiance, and temperature on plant development. Methods of measurement of environmental factors will be included. Prerequisites, PSSC 1303. ~~Demand~~ Fall, odd.