# SOUTHEAST COMMUNITY COLLEGE COURSE SYLLABUS

**AG, FOOD AND NATURAL RESOURCES DIVISION**

**Revision Date: Summer Quarter 2013**

## Catalog Description

Course Number: AGRI 2295

Course Title: Advanced Precision Technology

Prerequisite(s): AGRI 1171 & AGRI 2279

Catalog Description: Evaluate the different forms of agriculture technology. Study the understanding of the theory of GPS & GIS. Collecting and analyzing data for troubleshooting and decision making.

Credit Hours: 4.5

Class Hours: 45

Lab Hours: 0

Total Contact Hours: 45

## COURSE OBJECTIVES: Course will:

1. Explore GPS, GIS, and VRT tools to connect data, analyze data to make management descriptions
2. Understand the process of preparing and transferring a data outline for field connection
3. Understand what spatial data is and how to use it in decision making
4. Evaluate various types of technology in Agriculture

## STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

1. STUDENT LEARNING OUTCOMES: Student will be able to:
2. Demonstrate GPS, GIS and VRT tools to make management decisions
3. Prepare and transfer data outlines to use in the field
4. Define and describe the difference between spatial and aspatial data
5. GENERAL EDUCATION LEARNING OUTCOMES
6. Problem Solving: The ability to define a problem, propose hypotheses and strategies for testing solutions, implement outcomes that address all factors of the problem, evaluate results, and define any need for further work. (GELO 3)

## CONTENT/TOPICAL OUTLINE **(course outline may provide more detailed information)**

1. Overview of GPS, GIS, VRT
2. Spatial Mapping
3. Aspatial Mapping
4. Manage Data
5. Different Mapping Systems

## INSTRUCTIONAL MATERIALS

1. Required Text(s): None
2. Other Resources: None

## METHODS OF PRESENTATION/INSTRUCTION

Methods of presentation typically include a combination of the following:

1. Methods will include, but not limited to: Lecture, laboratory assignment and tasks, slide and video presentations, research and writing assignments, field trips, and guest lectures and speakers.
2. Lab Activities

## METHODS OF EVALUATION

Methods of evaluation typically include a combination of the following:

1. Quizzes, tests, and exams
2. Skills project and exam
3. Daily Evaluation
4. Participation

## SCC STANDARD GRADING SCALE POLICY:

A+: 95-100 C+: 75-79

A: 90-94 C: 70-74

B+: 85-89 D+: 65-69

B: 80-84 D: 60-64

F: Below 60

## SPECIFIC COURSE REQUIREMENTS:

1. Successful completion of all exams, projects, and assignments.
2. Properly and safely operate all college tractors and equipment.
3. Utilize proper safety eyewear at all times in lab

## SYLLABUS STATEMENTS

### Statement of Equal Opportunity and Nondiscrimination

It is the policy of Southeast Community College to provide equal opportunity and non-discrimination in admission, attendance and employment matters for all qualified persons, attending or seeking admission to the College, without regard to race, color, ethnicity, religion, sex, age, marital status, national origin, veteran status, sexual orientation, disability, or other factors prohibited by law. Inquiries concerning the application of Southeast Community College's policies on equal opportunity and nondiscrimination should be directed to the Vice President for Access, Equity and Diversity, SCC Area Office, Address, City, State, Zip Code; Phone; FAX; or Email Address.

### Americans with Disabilities Act – Reasonable Accommodations

If you have a disabling condition that may substantially limit your ability to participate in this class, it is your responsibility to contact the Disability Services provider on campus. For additional information and assistance contact:

Beatrice Building; Room Phone

Lincoln Campus Building; Room Phone

Milford Building; Room Phone

### Academic Integrity

Academic Integrity is one of the basic principles of a college community. SCC encourages and expects the highest standards of academic honesty from all students. Please note that cheating, plagiarism, or other forms of academic dishonesty are monitored and subject to disciplinary action.

### Electronic Devices

Personal use of any electronic device not authorized by the instructor **is prohibited**. **Violations may lead to formal disciplinary action**. Instructors, for instructional purposes, may allow in the classroom the **use of cell phones and personal electronic devices.**

### Firearms/Weapons Strictly Prohibited

SCC policy prohibits the possession of firearms, weapons, or fireworks on College property or at any College-sponsored event. Effective January 1, 2007, Nebraska State Statute 28-1202 makes it unlawful to carry a concealed handgun into a meeting of the governing body of a political subdivision, or collegiate athletic event; school, school grounds, school-owned vehicle, or school-sponsored activity or athletic event. These prohibitions apply to EVERYONE (employees, students, invitees, and visitors) and are enforceable EVERYWHERE (all college property and all college-related events.) Violations of these prohibitions will result in disciplinary and/or law enforcement action. **July, 2010**

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