

**Course Code:** AGB 105 (IAI AG 913)

**Course Title:** Agricultural Applications of the Computer

**Department:** Agricultural Technologies

**Effective Date:** Summer 2026

**PCS Code:** 1.1 - Baccalaureate/Transfer

**CIP Code:** 01.0101

**Repeatability:** 0

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## Credit Hours

**Catalog Notation:** 3-0-3

**Credit Hour Distribution:**

Lecture: 3

Lab: 0

Clinical: 0

**Total: 3**

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## General Course Information

### Catalog Description

Introduction to computer hardware, platform environments, file manipulation, printers, and the use of word processing; electronic presentations and communications; graphics, spreadsheet, and database management software; solution of agriculture data-related problems; and use of prepared software and templates.

### General Course Objectives

Explain major concepts and terms associated with agricultural uses of the computer. Create informative and creative PowerPoint presentations. Select appropriate software packages for use in agriculture. Develop a spreadsheet template to solve a given problem. Create a database file and manipulate its information to print labels and reports. Use word processing software to create letters and reports.

### Minimum Placement Levels

| English                  | Reading                  | Math                   |
|--------------------------|--------------------------|------------------------|
| Placement out of ENG 098 | Placement out of CCS 098 | Placement into MAT 060 |

### Prerequisites

None

### Methods of Evaluation

The minimum methods of evaluation include: 5 objective quizzes, in-class work, weekly homework assignments, and 1 final examination.

### Instructional Materials and Additional Supplies

None.

## Course Content

### General Learning Outcomes (GLOs)

- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.
- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

### Course Segments and Student Learning Outcomes

| Course Segment                                       | Learning Outcomes  | Lecture Hours | Lab Hours | Clinical Hours |
|--|--|---------------|-----------|----------------|
| Developing Computer Literacy                         | <ol style="list-style-type: none"> <li>1. Identify the physical attributes of a computer system.</li> <li>2. Demonstrate ways that computers and computer software are used in agriculture.</li> <li>3. Select an operating system and browsers.</li> <li>4. Use file management tools.</li> </ol> | 2             | 0         | 0              |
| Using Parkland Student Systems                       | <ol style="list-style-type: none"> <li>1. Log into the Parkland student interface and student email.</li> <li>2. Find course information.</li> <li>3. Submit assignments.</li> <li>4. Upload and download files.</li> <li>5. Use storage and printing.</li> </ol>                                  | 2             | 0         | 0              |
| Using Electronic Spreadsheet Programs in Agriculture | <ol style="list-style-type: none"> <li>1. Demonstrate use of an existing spreadsheet template.</li> <li>2. Create spreadsheet formulas to solve a given problem.</li> <li>3. Develop a spreadsheet template for a specific situation.</li> </ol>   | 14            | 0         | 0              |
| Using Database Management Software in Agriculture    | <ol style="list-style-type: none"> <li>1. Demonstrate use of an existing agricultural database.</li> <li>2. Sort a database.</li> <li>3. Create a new database.</li> <li>4. Print reports and labels for a specific situation.</li> </ol>  | 5             | 0         | 0              |
| Using Word Processing Software in Agriculture        | <ol style="list-style-type: none"> <li>1. Edit and print an existing word processing document.</li> <li>2. Use the word processor to create and print a document to meet a specific situation (flyers, brochures, resumes, and tables).</li> </ol>   | 13            | 0         | 0              |
| Using PowerPoint Program in Agriculture              | <ol style="list-style-type: none"> <li>1. Demonstrate the use of PowerPoint presentations in creating informative and interesting presentations.</li> </ol>  | 6             | 0         | 0              |
| Other Applications of the Computer in Agriculture    | <ol style="list-style-type: none"> <li>1. Identify other applications of the computer in agriculture, such as for telecommunications and internet applications, and prepared software and templates.</li> </ol>  | 3             | 0         | 0              |

#### Total Contact Hours

| Lecture Hours | Lab Hours | Clinical Hours |
|---------------|-----------|----------------|
| 45            | 0         | 0              |