I. **TITLE:**

   Advanced Computer Applications in Agriculture

II. **CATALOG DESCRIPTION:**

   A course designed to enhance the computer skills of agriculture and industry students and to give them the skills necessary to generate useful information and solve a variety of agriculturally specific problems. Students receive instruction on advanced word processing concepts, budget generation, statistical analysis, agribusiness related software, and global positioning systems in agriculture. Students may also elect to complete components that are more closely aligned to their discipline at the discretion of the instructor.

III. **PURPOSE:**

   To increase the breadth and depth of students' computer knowledge and proficiency, especially as these skills relate to analysis and problem solving.

IV. **COURSE OBJECTIVES:**

   As a Result of Participation in This Course:

   1) Students will develop an advanced understanding of agricultural computer technology, functions and applications.
   2) Students will develop new skills in using software applications for decision making with respect to agribusiness, animal science, plant science, agricultural education, and closely aligned industries.

V. **FIELD, CLINICAL & LABORATORY EXPERIENCES:**

   As assigned each semester.
VI. **RESOURCES & COMPUTER REQUIREMENTS:**

For completion of this course the student should have, or have availability to the following computer equipment and software:

- Computer
- Microsoft Word, Excel and PowerPoint
- Email
- Access to estudy.com via the internet

VII. **GRADING PROCEDURES:**

EXERCISES 1-8 – (75 Points Total For Completion of All Exercises)

Exercise 1: Student Information Sheet (5 Points)

Assignments 2-8 Due at Exam I Date

Exercise 2: Microsoft Word - Cover Letter & Resume/References (10 Points)
Exercise 3: Microsoft Excel – Functions (10 Points)
Exercise 4: Microsoft Excel – Charts in Excel (15 Points)
Exercise 5: Online Citation – Citation Program (5 Points)
Exercise 6: PowerPoint – PowerPoint Presentations (20 Points)
Exercise 7: Computers – Pricing Computers & Equipment (5 Points)
Exercise 8: Personal Domain Names (5 Points)

**Exam I: 100 Points**

Exercise 9: Research/Sales/Product Poster Presentations (15 Points)
Exercise 10: Using Excel for Statistics (5 Points)
Exercise 11: Data for Research Tabulations (5 Points)

**Exam II: 50 Points**

Letter Grades Will Be Assigned As Follows:

A 90%, B 80%, C 70%, D 60%, E 50% or less
VIII. **ACADEMIC HONESTY POLICY:**

Please refer to the most current copy of Murray State University’s *Undergraduate Bulletin*.

NOTE: The School of Agriculture Faculty have adopted and implemented an Academic Honesty Policy in addition to the University Honesty Policy, which can be found in the current *Undergraduate Bulletin*. The policy sets guidelines regarding acts of dishonesty and the procedure to follow should an event occur. It is each Agriculture student’s responsibility to obtain and read a copy of this document. The School’s Academic Honesty Policy can be obtained by asking for a copy from any Agriculture Faculty member or the Secretary.

VIX: **TEXT & REFERENCES:**

The student may use any reference book in completing the applications. These may be obtained in just about any bookstore.

X. **PREREQUISITES:**

AGR 339 Computer Applications in Agriculture or by permission of the instructor.

XI. **STATE OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY:**

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities. For more information, contact Sabrina Y. Dial, Director of Equal Opportunity, Murray State University, 103 Wells Hall, Murray, KY 42071-3318. Telephone: 270-809-3155 (voice), 270-809-3361 (TDD).