COURSE OUTLINE

DIVISION: Natural Sciences and Business

COURSE: AGR 1004 Microcomputer Applications in Agriculture

		⊠ Lab □ Clinical	2 Contact Hours (2-3 contact = 1 credit hour)0 Contact Hours (3 contact = 1 credit hour)	
Delive	ery Method	: ⊠ Lecture ☐ Seminar	2 Contact Hours (1 contact = 1 credit hour)0 Contact Hours (1 contact = 1 credit hour)	
	Consent	of Instructor: Y	res ⊠ No	
	Pre- or Co	orequiste(s): None	•	
	Corequisi	te(s): None		
	Enrollment by assessment or other measure? \square Yes \boxtimes No If yes, please describe:			
	Prerequis	site(s): None		
Comp	lete all tha	t apply or mark "N	lone" where appropriate:	
Credit	Hours:	3		
Date:	Spring 20	20		

CATALOG DESCRIPTION and IAI NUMBER (if applicable):

Introduction to computer hardware, file manipulation, printers and the use of word processing, electronic presentations and communications, graphics, spreadsheet, database management and web development software. Also includes solution of agriculture data-related problems and use of prepared software and templates. IAI

Equivalent: AG 913

January 2023 Page 1 of 3

ACCREDITATION STATEMENTS AND COURSE NOTES:

None

COURSE TOPICS AND CONTENT REQUIREMENTS:

- 1. Introduction
- 2. Information Technology Essentials
 - a. Exploring Windows
 - b. Maintaining Files and Customizing Windows
 - c. Internet Searching
 - d. Browsing the Internet Using Web Browser
- 3. Microsoft Word
 - a. Creating and editing a document
 - b. Formatting characters and paragraphs
 - c. Formatting and enhancing a document
- 4. Microsoft Excel
 - a. Analyzing data using Excel
 - b. Editing and formatting worksheet
 - c. Using functions, setting print options, and adding visual elements
- 5. Microsoft Access
 - a. Maintaining data in access tables
 - b. Creating tables and relationships
 - c. Creating queries, forms, and reports
- 6. Microsoft PowerPoint
 - a. Preparing a presentation
 - b. Editing and enhancing slides
- 7. Integrating Programs
 - a. Word, Excel, Access, and PowerPoint
- 8. Using Farm Management Software
- 9. Using Technology in Agriculture
 - a. Applying Precision Agriculture Software
 - b. Crop Production
 - c. Livestock Production
 - d. Water Management
- 10. Web page design
- 11. Using Apps in Agriculture

INSTRUCTIONAL METHODS:

- Lecture
- Laboratory
- Learning Module Activities/Projects

EVALUATION OF STUDENT ACHIEVEMENT:

A = 90 - 100

B = 80 - 89

C = 70-79

D = 60-69

F = 0.59

Assignments/Projects: 40%

Exams: 60%

INSTRUCTIONAL MATERIALS:

Textbooks

Freund, Steven M. et al. Shelly Cashman Series Microsoft Office 365 & Office 2016: Advanced. Cengage. 2016. ISBN: 978-1-3370-1569-1

Rutkosky, N., D. Seguin, A. Roggenkamp, and I. Rutkosky. 2014. Marquee Series: Microsoft Office 2013. EMC Paradigm Publishing. ISBN: 978-0-76385-266-5

Vermaat, M.E., J.T. Campbell, S.M. Freund, M. Frydenberg, and M.Z. Last. 2016. Discovering Computers and Microsoft Office 2016: A Fundamental Combined Approach. Course Technology. ISBN-13: 9781305871809

Resources

None

LEARNING OUTCOMES AND GOALS:

Instit	utional Learning Outcomes
1	Communication – to communicate effectively;
2)	Inquiry – to apply critical, logical, creative, aesthetic, or quantitative analytical
	reasoning to formulate a judgement or conclusion;
3)	Social Consciousness - to understand what it means to be a socially conscious
	person, locally and globally;
4)	Responsibility – to recognize how personal choices affect self and society.

Course Outcomes and Competencies

- 1. Effectively operate a computer keyboard, mouse, and other input peripheral devices.
- 2. Effectively use an operating system to manage files.
- 3. Effectively use word processing software.
- 4. Effectively use spreadsheet software.
- 5. Effectively use database management software.
- 6. Effectively use graphics and presentations software.
- 7. Effectively use computer-related applications such as electronic communications, the World Wide Web, web development, e-mail, web search engines, keyword selection and evaluation of results.

January 2023 Page 3 of 3