Western Illinois University – School of Agriculture
AGTM 207: Introduction to Precision Agriculture (3)
Course Syllabus – Fall 2020 "Subject to Change"Course Meets:M/W 3:00 – 4:15 pm in KH 152
The Precision-Farming Guide for Agriculturalists
Third Edition, John Deere Publishing, ISBN: -0-86691-358-0Instructor:Dr. Daniel Atherton
B 22 Knoblauch HallCourse Subject Course
Office Phone: 309-298-2395

Office Hours: M/W 1:00 to 1:50 or T/TH 12:00 to 12:50 or by appointment

	Monday	Tuesday	Wednesday	Thursday	
Period 1		AGTM 365		AGTM 365	
(8:00-8:50)		KH 307-Lecture/ B2-Lab		KH 307-Lecture/ B2-Lab	
Period 2		AGTM 365		AGTM 365	
(9:00-9:50)		KH 307-Lecture/ B2-Lab		KH 307-Lecture/ B2-Lab	
Period 3				AGTM 471	
(10:00-10:50)				KH 305-Lecture/Lab	
Period 4				AGTM 471	
(11:00-11:50)				KH 305-Lecture/Lab	
Period 5	AGTM 471	Office Hours	AGTM 471	Office Hours	
(12:00-12:50)	KH 330-Lecture		KH 330-Lecture		
Period 6	Office Hours	AGTM 368	Office Hours	AGTM 368	
(1:00-1:50)		B2-Lab/KH 307		B2-Lab/KH 307	
Period 7	AGTM 368	AGTM 368	AGTM 368	AGTM 368	
(2:00-2:50)	KH 330-Lecture	B2-Lab/KH 307	KH 330-Lecture	B2-Lab/KH 307	
Period 8	AGTM 207		AGTM 207		
(3:00-3:50)	KH 152-Lecture		KH 152-Lecture		
Period 9	AGTM 207		AGTM 207		
(4:00-4:50)	4:15 pm		4:15 pm		

Fall 2020 Course Schedule

Course Description: Course introduces fundamental components of precision agriculture. Topics include: the global positioning system (GPS), geographic information systems (GIS), remote sensing, yield monitoring, variable rate application (VRA), and analysis and decision making for agriculture.

Course Objectives:

- Explain basic concepts of precision farming
- Define basic principles of GPS, GIS, VRA, and remote sensing
- Analyze and evaluate of precision farming data
- Identify advantages of precision agriculture compared to the cost and time invested

Attendance: If at any time you miss the lecture or lab, please use the OARS system to report your absence (<u>www.wiu.edu/oars</u>). I will need the email generated from this system prior to class and not after. If I receive the email after class has ended then the late grade policies come into effect. It is the student's responsibility to coordinate with the instructor to make up missed work. Quizzes may be given at any time and no makeup quizzes will be given unless the instructor approves the absence prior to missing class.

Academic Dishonesty: http://www.wiu.edu/policies/acintegrity.php

Any violation of the Academic Dishonesty Policy in Student Handbook will result in an automatic failure in the course. Plagiarism and cheating are areas of concern for this course. This course is designed to enhance your writing and presentation skills within your academic area, not the ability to copy other's thoughts and ideas.

Quality of Work Policy: All assignments should be word processed with title of assignment, name, date, and a summary of the assignment included at the beginning of the assignment. Run spell-checker. If completing multiple-step problems, show all work. Your work should be neat and orderly.

Assessment and Grading: Your final grade is based on your overall weighted percent of the following:

<u>Component</u>		Percentage						
Exam 1 (Ch. 1 and 2)		10%						
Exam 2 (Ch. 3, 4, and 5)		15%						
Exam 3 (Ch. 6 and 7)		15%						
Final Exam (Comprehensive)		30%						
Quizzes		15%						
Class participation		15% (Participation includes attendance)						
<u>Gradiı</u>	ng Scale							
А	93 – 100%	A-	90 – 92%	B+	87 – 89%	В	83 - 86%	
B-	80 - 82%	C+	77 – 79%	С	73 – 76%	C-	70 – 72%	
D+	67 – 69%	D	63 – 66%	D-	60 – 62%	F	< 60%	

Students Rights and Responsibilities: http://www.wiu.edu/provost/students.php

Disruptive Student Behavior: http://www.wiu.edu/vpas/policies/disrupst.php

Final Grades: Unless a computational error was made, grades will not be changed after the end of the semester. Please do not come to the instructor with "extenuating circumstances" for why your grade should be changed – the semester grade represents the level of work you completed over the semester.

Late Assignments: No late assignments will be accepted unless instructor approves of turning in an assignment late prior to assignment's due date. Assignments will be due at the beginning of class on their due date. Hand written assignments will not be accepted unless instructed otherwise. Assignments will be 12 point font with 1" margins. Points will be deducted for incorrect spelling and grammar.

Professional Learning Environment: Please be respectful of your fellow students and the instructor and do your part to maintain the professional learning environment of this course. **Please silence your cell phones. Avoid texting during class.** Individual disruptions, such as **entering the classroom late**, **allowing your cell phone to ring audibly, engaging in unrelated activities** (e.g., **texting or surfing the web**) during class time, or **packing your belongings before class ends**, distract other students and detract from the quality of the learning environment for the whole class. Infractions will be noted and your class participation grade will suffer. The instructor reserves the right to ask for cell phones to be returned to students after the class period or to remove from group work a student who is demonstrating inadequate levels of participation.

Attention Education Majors: The changes within the state teaching license require all education majors to receive a grade of a "C-" or better in this course in order to meet Illinois teaching license requirements. With the university +/- grading system, receiving a "D+" or below will require you to retake this course or find a substitute course to meet School of Agriculture graduation requirements.

ADA Compliance: "In accordance with University policy and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. For the instructor to provide the proper accommodation(s) you must obtain documentation of the need for an accommodation through Disability Resource Center (DRC) and provide it to the instructor. It is imperative that you take the initiative to bring such needs to the instructor's attention, as he/she is not legally permitted to inquire about such particular needs of students. Students who may require special assistance in emergency evacuations (i.e. fire, tornado, etc.) should contact the instructor as to the most appropriate procedures to follow in such an emergency. Contact Disability Resource Center (DRC) at 298-2512 for additional services."

University values, Title IX, and other federal and state laws prohibit sex discrimination, including sexual assault/misconduct, dating/domestic violence, and stalking. If you, or someone you know, has been the victim of any of these offenses, we encourage you to report this to the Title IX Coordinator at 309-298-1977 or anonymously online at: http://www.wiu.edu/equal_opportunity_and_access/request_form/index. If you disclose an incident to a faculty member, the faculty member must notify the Title IX Coordinator. The complete Title IX policy is available at: http://www.wiu.edu/vpas/policies/titleIX.

Tentative Schedule *** Scheduling and weekly topics are subject to change at instructor's discretion ***

Week	Торіс			
Week 1	Course Intro., requirements, etc. + Ch. 1 – Intro to Precision Ag			
Week 2	Ch. 1 / Ch. 2 – GPS			
Week 3	Labor Day – No Class + Ch. 2 – GPS			
Week 4	Ch. 2 – GPS + Ch. 2 & Review for Exam 1 (Ch. 1 & 2)			
Week 5	Exam 1 (Ch. 1 & 2) + (Exam 1 overview) & Ch. 5 – Remote Sensing			
Week 6	Ch. 5 – Remote Sensing			
Week 7	Ch. 5 – Remote Sensing – Spectrometer & Ch. 3 – Yield Monitoring			
Week 8	Ch. 3 – Yield Monitoring			
Week 9	Ch. 4 – Soil Sampling			
Week 10	Ch. 4 – Soil Sampling + Review for Exam 2 (Ch. 3, 4, and 5)			
Week 11	Exam 2 (Ch. 3, 4, and 5) + (Exam 2 overview) & Ch. 6 - GIS			
Week 12	Ch. 6 – GIS + Ch. 7 – VRT			
Week 13	Ch. 7 – VRT			
Week 14	Review for Exam 3 (Ch. 6 and 7) + Exam 3 (Ch. 6 & 7)			
++++++	Thanksgiving – No Class			
Week 14	Review for Exam 3 (Ch. 6 and 7) + Exam 3 (Ch. 6 & 7)			
Week 15	(Exam 3 overview) & Prec. Ag. SW. (A & DM)			

Final Exam – Wednesday, Dec. 16th 3:00 – 4:50 pm