MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. AGRI	COURSE NUMBER: 2201				
NUMBER OF CREDITS: 3	Lecture: 3 Lab: 0 OJT: 0				
Course Title:					
Principles of Animal Nutrition					
Catalog Description:					
Principles of Animal Nutrition covers the classific digestion, and utilization of feeds. This includes nutripoultry, nutrient composition, and feeding standards.	ient requirements for livestock and				
Prerequisites or Necessary Entry Skills/Kno	wledge:				
None None	wieuge.				
FULFILLS MN TRANSFER CURRICULUN applicable)	A AREA(S) (Leave blank if not				
□Goal 1: Communication: By meeting the following co	ompetencies:				
☐Goal 2: Critical Thinking: By meeting the following competencies:					
□Goal 3: Natural Sciences: By meeting the following c	competencies:				
□Goal 4: Mathematics/Logical Reasoning: By meeting	the following competencies:				
☐Goal 5: History and the Social and Behavioral Science competencies:	es: By meeting the following				
□Goal 6: The Humanities and Fine Arts: By meeting the	e following competencies:				
Goal 7: Human Diversity: By meeting the following competencies:					
□Goal 8: Global Perspective: By meeting the following	competencies:				
☐Goal 9: Ethical and Civic Responsibility: By meeting	-				
☐Goal 10: People and the Environment: By meeting the	e following competencies:				
Topics to be Covered					
Feed Nutrients and There Functions					
Feed Analysis					
Comparative Digestive Systems					
Proteins					
Carbohydrates					
Fats					
Water					
Minerals & Vitamins					
Develop Rations for Swine, Beef, Dairy, Poultry, Horse					
Classification of Feed Stuffs - Roughages, Concentrates, Supplements					

Student Learning Outcomes
Explain the nutrient requirements of livestock and six basic nutrients.
Compare differences and similarities of digestive systems
Explain feed stuff digestion and nutrient absorption.
Identify symptoms of nutrient deficiencies.
Explain the analytical methods used to determine nutrient composition of feed stuffs.
Describe how to determine digestibility of feed stuffs.
Classify feed into the various categories.
Identify factors regulating feed intake by livestock.
Describe and apply mathematical solutions to animal diet formulations.
Compare life-cycle feeding programs for beef, swine, dairy, poultry, and horses.
Calculate rations for the various livestock species.

Is this course part of a transfer pathway:	Yes	No	

Revised Date: 6/2021