

Matrix for AGRI/ASED										
Student Learning Outcome\Course	Math 105	Chem 107	Chem 108	ABUS 101	AGET 150	ANSC 101	PSSC 101	AGRI 331	AGRI 482	AGRI 305
Goal: Technical Competency.										
Agricultural Business										
Demonstrate basic understanding of economic principles				I						
Animal Science										
Demonstrate an understanding of common livestock species/breed, animal genetics, species physiology, and their importance in production agriculture										P
Plant Science										
Demonstrate knowledge of important plant production systems in California and identify common California crops							i			
Demonstrate knowledge of photosynthesis and other common plant biological systems, plant genetics, and crop production requirement							i			P
Natural Resources										
Demonstrate an understanding of the interrelationships of natural and agricultural environments and the effect of production practices on the environment								I,P		
Agricultural Engineering Technology										
Demonstrate an understanding of machine function, identify machinery commonly used in Northern California					I,P					
Demonstrate the ability to solve common problems associated with machinery operations (e.g. application rates and field capacity)					I,P					
Goal: Demonstrate the ability to identify the appropriate methodologies to solve analytical problems.										
Demonstrate the scientific method										
Knowledge fo experimental design	I									
Goal: Capable of communicating clearly and concisely.										
Demonstrate effective verbal communication in Agriculture					I				p	

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Demonstrate effective written communication in Agriculture					I				P	
Goal: Aware of the complex interrelationships of natural and agricultural systems.										
Be able to apply ecological principles to the management of agricultural systems										
Goal: Have an international and domestic perspective of historical and current issues as applied to agriculture.										
Have knowledge of a wide range of agricultural issues and problems such as environmental quality, food safety, and international competitiveness									P	
Identify ethical issues and appropriate solutions										
I = Introduce										
P= Practice										
M = Master										