



	A	B	C	D	E	F	G	H	I	J	K	L
1		<b>Student Learning Outcomes</b> (Objective Levels: I = Introduction; E=Engagement; M=Mastery)	CO 130	CO 150	MATH 124	MATH 125	LIFE 102 & LIFE 103 OR BZ 120 & BZ 110	CHEM 111	CHEM 112	AREC 202	AGED 210	BSPM 192
11	c.	Develop logical, objective, balanced arguments regarding contemporary issues in natural and managed ecosystems . • <i>Contemporary issues are those that currently affect the productivity and sustainability* of natural and managed systems. They may include, but are not limited to, issues related to (1) how different cultural practices, such as irrigation or tillage, influences pests of plants, (2) the economic, social, and biophysical effects of methods of pest management such as use of synthetic herbicides or other pesticides. The most pressing issues will change over time.</i>										
12	d.	Explain the benefits and risks of management practices in natural and managed ecosystems. • <i>Management practices include, but are not limited to those described in 2c above.</i>										
13												
14	<b>3. Critical Thinking</b>											
15		<i>Describe, assess, analyze and synthesize knowledge from across the curriculum to create solutions for pests and beneficial species in natural and managed ecosystems</i>										
16	a.	Describe critical problems and gaps in information for natural and managed ecosystems through assessment, analysis, and integration of facts. • <i>This includes the productivity and sustainability of these ecosystems and issues described in 2c.</i>										
17	b.	Integrate, synthesize, and apply information from across the curriculum to create solutions to complex problems. • <i>Complex problems are challenges to productivity and sustainability of natural and managed ecosystems such as described in 2c.</i>										

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18	c.	Analyze qualitative (facts) and quantitative (numerical) information and derive conclusions about challenges in the productivity, sustainability, and management of natural and managed ecosystems. • <i>Qualitative (facts) and quantitative (numerical) information gained from Technical Competencies and Agricultural Literacy objectives.</i>			I	I	I	I	I	E	I	
19												
20	<b>4. Leadership</b>											
21	<i>Promote and practice inclusion to form effective teams that solve complex problems in natural and managed ecosystems</i>											
22	a.	Function effectively within diverse* teams to solve complex problems and achieve desired outcomes in natural and managed ecosystems. • <i>Complex problems as defined in 3b</i>					I	I	I		I	
23	b.	Create and facilitate inclusive and diverse teams. • <i>Complex problems as defined in 3b</i>	I	I			I	I	I		I	
24												
25	<b>5. Communication</b>											
26	<i>Communicate effectively with diverse audiences regarding sustainable pest and pathogen management in natural and managed ecosystems</i>											
27	a.	Engage stakeholders such as researchers, farmers, and industry representatives in the identification of pest and pathogen management needs.	I	I						I	I	
28	b.	Excel in written and verbal communication of scientific results and analyses of information related to sustainable pest and pathogen management to diverse audiences including peers, stakeholders, public and the media	I	I			I	I	I	I	I	