	UIRED	COURSE							 -	DIVISION NEW CC REVISION	URSE
				ke Land Collection For Course Information For	_						
COURSE NUMBER:	AGR-	-050		TITLE: (30 Characters	Max)	Soils					,
SEM CR HRS: 3	3.5	Lecture:		3		Lab:	1			ECH:	4
Course Level:			☑ Career/T		Clinic	cal Practicum:	О	In	SOE/	SOE	0
COURSE PCS #	Васса	laureate /Non-IAI 11.011201		Not in Degree Audit IAI Code				- 111	ternship: Contact Hours (M	ECH: inutes Per \	Week)
Repeatable (Y/N): N		Pass/Fail (Y/N):	N	Variable Credit (Y/N):	N	Min:	Max:		16 Wks 200	8 wks	400
Prerequisites:						,	-				
Catalog Description: (40 Word Limit)		_	•	nces designed to cover soil Indiana and their conservati		•		minera	als, soil types, and th	neir class.	A
List the Major Course Segments (Units)						Contact Lecture Hours	Contac Hou		Clinical Practicum	Non-C Internsh	Clinical ip/ SOE
1 What is Soil?2 Physical Properties of Soil						6	3				
3 Soils of Illinois						4	1				
4 Soils of the World						4					
5 Soil Formation and Classification						4	1				
6 Chemical Properties of Soil7 Biological Properties of Soil						5 5	3		 		
8 Legal Descriptions						3	1				
9 Soil and Water Conservation						5	2				
0 Soil Fertility				-	ΓΟΤΑL	5 45	1 15		0	()
					OTAL	45	10)	U		<u> </u>
				EVALUATION							
QUIZZE: LAB WORI			EXAMS 🖸			AL PRES			PAPERS		
LAB WORI	KIW I	PRC	DJECTS 🗹		COM	IP FINAL ☑			OTHER		
				COURSE MATERIALS							
		Soil Science and Mana	agement								
AUTHOR: Edward J. Plaster PUBLISHER: Delmar Learning											
VOLUME/EDITION/URL: 5th Edition											
COPYRIGHT D	DATE:	2009									
Т	TITLE: I	Introductory Experime	<u></u> ental Soil Sci∈	ence (Workbook)							
	HOR:	<u> </u>		· · · · · · · · · · · · · · · · · · ·							
PUBLIS VOLUME/EDITION		2nd Edition									
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MAJOR COU	IRSE S	SEGMENT		HOURS			Tho stu		ARNING OUTCO	OMES	
What is Soil?				2			Discuss	differir onent	ng soil horizons, pares. s. Students take the		
Physical Properties of Soil				8			Evaluate structure, texture, color and density of various soil types.				
Soils of Illinois				4			Identify the five orders and seven regions of Illinois are identified and studied.				
Soils of the World				2			Locate soils found in other states and world-wide are discussed.				

3

Soil Formation and Classification

Explain soil profiles and utilize the soil survey.

Chemical Properties of Soil	7	Define nutrient exchange, essential elements for plant and pH.
Biological Properties of the Soil	6	Discuss nitrogen cycle and its respective bacteria. Evaluate C:N ratio and organic matter effects on plant growth.
Legal Descriptions	2	Distinguish metes and bounds, and rectangular survey methods as used in real estate and identify acreages.
Soil and Water Conservation	6	Identify irrigation systems, pollutants, waste management, erosion mechanisms and control, stripmine reclamation effects.
Soil Fertility	5	Describe fertilizer application and placement, plant needs, deficiency, and toxicity symptoms.
Insert New Line Above this Line		
	45	

COURSE OUTCOMES*	At the successful completion of this course, students will be able to:	
• Students will demonstrate an underst	anding of soil development and classification.	
Students will explain or recall facts or	the impact that the physical properties of soil have on plant growth.	
Students will demonstrate a basic und	derstanding of soil fertility.	

^{*} Course Outcomes will be used in the Assessment Software for Outcomes Assessment. Limit to 3 - 5.

• Students will describe the correct way to collect soil samples.