

# Fundamentals in Applied Agronomy- Schaeffer Specialized Lubricants

*An introductory agronomy course offered by the American Society of Agronomy.*

Lectures are approximately two hours. To maximize learning, students will be expected to spend time reading and studying outside of the recorded lesson.

## Optional Resource Materials

**Preparing for the International CCA Exam** (International Plant Nutrition Institute):

<http://store.ipni.net/products/preparing-for-the-international-certified-crop-adviser-exam>.

**Soil Fertility Manual** (International Plant Nutrition Institute) <http://store.ipni.net/products/soil-fertility-manual-wire-o-bound>.

Please note: Much of the required reading for this course will be available from Extension and other publications available free on the Internet (see syllabus on the pages that follow).

**Quizzes** A ten question quiz will be offered after each lesson which must be passed (7 out of 10 or 70%) in order to move on to the next lesson in the module. There will not be a final exam for this course, and grades will not be assigned. A certificate of completion will be available after the course is completed.

Certified individuals seeking Continuing Education Units (CEUs) will receive the CEUs after the course is passed by scoring 7 out of 10 or 70% on each quiz. Total CEUs for CCAs/CPAGs include 6.0 in Nutrient Management and 2.0 in Soil & Water Management or 8.0 Professional Meetings CEUs for CPSS/CPSC/CST.

**Use of Class Materials** Registrant agrees that the name indicated on the registration form is the sole individual receiving the on-line instruction and the only person completing the on-line quizzes. Individuals found in violation of this policy will be subject to dismissal from this course, revocation of certification, and possible loss of privileges to participate in future offerings from the American Society of Agronomy.

The PowerPoint presentations, class recordings, quizzes, worksheets, and other materials developed specifically for this class are for the educational purposes and use of students registered for this class. They are not to be copied, forwarded or shared in any way with anyone for any other use without the permission of the American Society of Agronomy.

## Syllabus

Module	Topics	Reading Assignment Prior to Class
<b>Soil and Water Management</b>	<b>Lesson 1.</b> Orientation to Class. Soil Chemical, Physical and Biological Characteristics	Preparing for the International CCA Exam, pages 49-80 (see optional texts) Management of Wisconsin Soils Chapters 1 and 2: <a href="http://www.soils.wisc.edu/extension/pubs/A3588.pdf">http://www.soils.wisc.edu/extension/pubs/A3588.pdf</a> Using Web Soil Survey (WSS) (Explore) <a href="http://websoilsurvey.nrcs.usda.gov/app/">http://websoilsurvey.nrcs.usda.gov/app/</a>

Module	Topics	Reading Assignment Prior to Class
<b>Nutrient Management</b>	<p><b>Lesson 1.</b> Basic Concepts of Plant Nutrition and Soil Fertility, The Nitrogen Cycle, Soil pH</p>	<p>Preparing for the International CCA Exam, pages 1-48            Soil Fertility Manual (see required texts) Chapters 1-7            Nitrogen Basics—The Nitrogen Cycle  <a href="http://nmsp.cals.cornell.edu/publications/factsheets/factsheet2.pdf">http://nmsp.cals.cornell.edu/publications/factsheets/factsheet2.pdf</a></p>
	<p><b>Lesson 2.</b> Liming and Soil Amendments; Fertilizers, Manure, &amp; Other Nutrient Sources; Fertilizer Additives</p>	
	<p><b>Lesson 3.</b> Soil and Tissue Analysis, Fertilizer Calculations, Nutrient Application</p>	<p>Soil Fertility Manual Chapters 8-11</p>