



National Standard Course Category	UofL Course (Undergraduate Courses 2022/23)	Knowledge Requirement for a Practice Area			
		Agricultural Marketing and Sales	Crop Production	Livestock Production	Rangeland and Pasture Management
(credits required)	2022/2023 Program Requirements for B.Sc in Agricultural Studies (Courses in Bold Type Meet the Knowledge Requirement for that Subject in a Practice Standard)				
Foundational Natural Sciences (15 credits required)					
	Biology 1010 - Cellular Basis of Life				
	Biology 1020 - Diversity of Life				
	Biology 2000 - Principles of Genetics			√	
	Biology 2200 - Principles of Ecology				
	Biology 2300 - Cell Biology				
	Chemistry 1110 - Chemistry for Life Sciences I				
	Chemistry 2120 - Chemistry for Life Sciences II				
	Geography 2065 - Physical Geology				
	Physics 1050 - Introduction to Biophysics				
Senior Agrology (24 credits required)					
	Agric Studies 4300 - Advanced Modeling of Agricultural Systems				
	Biology 3420 - Animal Physiology			√	
	Biology 3460 - Plant Physiology		√		
	Biology 3560 - Integrated Plant Biology				
	Biology 3700 - Ecosystem Ecology				
	Biology 3710 - Population Ecology				
	Biology 3720 - Community Ecology				
	Biology 4570 - Plant Breeding and Genetics				
	Geography 3210 - Food Systems Analysis				
	Geography 4060 - Agricultural Soil Management		√		
	Geography 4065 - Irrigation Science		√		
	Geography 4400 - Advanced Hydrology				
	Geography 4725 - Advanced Remote Sensing				
	Geography 4740 - Advanced Geographical Information Systems				
Introductory Agrology Intro Agrology + Senior Agrology = 60 credits required)					
	Agric Studies 1000 - The Evolution of Agriculture				
	Agric Studies 3300 - Modeling of Agricultural Systems				
	Environmental Science 2000 - Fundamentals of Environmental Science			√	
	Geography 2030 - Geomorphology				
	Geography 2300 - Weather and Climate				
	Geography 2700 - Geographical Data and Analysis				
	Geography 2735 - Introduction to Geographical Information Science				
	Geography 3075 - Environmental Resources Management				
	Geography 3080 - Soils		√	√	
	Geography 3400 - Hydrology			√	√
	Geography 3720 - Remote Sensing				
	Geography 3740 - Geographical Information Systems				
	The following courses may or may not be Agrology related:				
	Agricultural Studies 2000 unspecified (LC technical term)				
	Agricultural Studies 2000 unspecified (LC technical term)				
	Agricultural Studies 2000 unspecified (LC technical term)				
	Agricultural Studies 3000 unspecified (LC technical term)				
	Agricultural Studies 3000 unspecified (LC technical term)				
Economics					



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<i>(3 credits required)</i>	Economics 1010 - Introduction to Microeconomics				
Mathematics or Statistics <i>(3 credits required)</i>	Statistics 1770 - Introduction to Probability and Statistics		√		
	Mathematics 1010 - Introduction to Calculus				
	Mathematics 1560 - Calculus I				
	Mathematics 1565 - Accelerated Calculus I				
Communications <i>(3 credits required)</i>	<i>No course identified in Program Requirements for B.Sc Agric Studies</i>				
		<i>The Following Subjects Are Not Listed in the B.Sc Agricultural Studies Program Requirements But Are Also Required to Qualify for the P.Ag in the Following Practice Areas (Each subject must be 3-credit equivalent course)</i>			
		Agricultural Marketing and Sales	Crop Production	Livestock Production	Rangeland and Pasture Management
		Introductory Communications	Introductory Crop Science	Introductory Animal Science	Plant Identification/Taxonomy
		At least two of the following:	At least one of the following:	Species-Specific Production Systems	Invasive Species and Weeds
		<i>Introductory Crop Science</i>	<i>Annual Crops</i>	Animal Health and Welfare	Soil Genesis and Classification
		<i>Introductory Animal Science</i>	<i>Perennial Crops</i>	Introductory Animal Nutrition	Soil Fertility
		<i>Introductory Horticulture</i>	<i>Horticultural Crops</i>	Feeds and Feeding	Range/Pasture Livestock Production
		<i>Introductory Agroforestry</i>	<i>Agroforestry</i>	Advanced Genetics/Genomics	Wildlife Ecology and Habitat
		<i>Industrial Vegetation Management</i>	Soil Fertility	Reproductive Physiology	Soil Water Management
		<i>Agricultural Machinery</i>	Irrigated or Dryland Crop Water Use	Animal Diseases	Forage and Pasture Management
		<i>Land Management Technologies</i>	At least one of the following:	Animal Housing	Rangeland Management
		Introductory Marketing	<i>Weed Science</i>	Introductory Agricultural Economics	Rangeland/Pasture Ecology
		Introductory Agricultural Economics	<i>Agricultural Entomology</i>	Animal and Animal Products Marketing	Legislation/Policy
			<i>Plant Pathology</i>	Micro and Macroeconomics	
			Introductory Agricultural Economics	Experimental Design	
			Experimental Design		