

Soil and Water Sciences

<https://ag.purdue.edu/oap/Pages/major.aspx>

120 credits required for graduation

Credits	Course number	Course Title
Departmental/Program Major Courses (109 to 110 credits)		
Required Major Courses (29 to 30 credits)		
_____ 3	AGRY 25500	Soil Science
_____ 3	AGRY 29000	Introduction to Environmental Science
_____ 3	AGRY 33500	Weather and Climate
_____ 3	AGRY 33700	Environmental Hydrology
_____ 3	AGRY 36500	Soil Fertility
_____ 4 or	AGRY 38500 or	
_____ 3	AGRY 34900	Environmental Soil Chemistry or Soil Ecology
_____ 1	AGRY 39800	Agronomy Seminar
_____	AGRY 45000 or	
_____ 3	AGRY 58500	Soil Conservation and Water Management or Soils and Land Use
_____ 3	AGRY 46500	Soil Physical Properties
_____ 1	AGRY 49800	Agronomy Senior Seminar
_____ 3	AGRY 56500	Soil Classification, Genesis, and Survey
<u>Other Departmental /Program Course Requirements (80 credits) (See Agronomy Advising Resources)</u>		
_____ 0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University
_____ 0.5	AGR 11300	Introduction to Agronomy Academic Programs
_____	AGRY 32000 or	
_____	52500 or BCHM	
_____ 3	30700	Genetics or Crop Physiology and Ecology or Biochemistry
_____ 4	BIOL 11000	Fundamentals of Biology I
_____	BIOL 11100 or	
_____ 4	BTNY 11000	Fundamentals of Biology II or Introduction to Plant Science
_____ 3	CHM 11100	General Chemistry (satisfies Science Selective for core)
_____ 3	CHM 11200	General Chemistry (satisfies Science Selective for core)
_____ 4	CHM 25700	Organic Chemistry
_____ 1	CHM 25701	Organic Chemistry Laboratory
_____ 3	EAPS 11100	Physical Geology
_____ 3	MA 16010	Applied Calculus I (satisfies Quantitative Reasoning Selective for core)
_____ 3	MA 16020	Applied Calculus II
_____ 4	PHYS 22000	General Physics
_____ 4	PHYS 22100	General Physics
_____ 3	STAT 30100	Elementary Statistical Methods (satisfies Information Literacy Selective for core)
_____ 3	-----	Crop or Plant Science Selective
_____ 3	-----	Ecology Selective
_____ 3	-----	Engineering or Science Selective
_____ 3	-----	Agricultural Economics, Economics, Management or Organizational Leadership and Supervision Selective
_____ 3	-----	
_____ 3	-----	Economics Selective (satisfies Human Culture Behavioral/Social Science for core)
_____ 3	-----	UCC Humanities Selective (satisfies Human Cultures Humanities for core)
_____ 3	-----	Humanities or Social Science Selective
_____ 3	-----	Humanities or Social Science Selective
_____ 3	-----	Humanities or Social Science Selective (30000+ level)
_____ 4	ENGL 10600	First-Year Composition (satisfies Written Communication for core)
_____	COM 11400 or	Fundamentals of Speech Communication or Science Writing and Presentation (satisfies
_____ 3	COM 21700	Oral Communication for core)
_____ 3	-----	Written or Oral Communications Selective

Electives (10 or 11 credits)

_____ 10 or 11 _____ Elective

University Core Requirements:

Human Cultures Humanities: _____

Human Cultures Behavioral/Social Science: _____

Information Literacy: _____

Science #1: _____

Science #2: _____

Science, Technology, and Society: _____

Written Communication: _____

Oral Communication: _____

Quantitative Reasoning: _____

120 semester credits required for Bachelor of Science degree.

2.0 GPA required for Bachelor of Science degree.

College of Agriculture & University Level Requirements:

2.0 GPA required for Bachelor of Science degree.

32 Upper division credits taken from Purdue

9 credits International Understanding: _____

3 credits Multicultural Awareness: _____

9 credits of Hum and/or Social Sciences outside the College of Agriculture: _____

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Credits	Course number	Course Title	Prerequisites	Credits	Course number	Course Title	Prerequisites
Fall 1st Year				Spring 1st Year			
0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University		4	BIOL 11100 or BTNY 11000	Fundamentals of Biology II or Introduction to Plant Science	BIOL 11000
0.5	AGR 11300	Introduction to Agronomy Academic Programs		3	CHM 11200	General Chemistry	CHM 11100
4	BIOL 11000	Fundamentals of Biology I		3	MA 16020	Applied Calculus II	MA 16010
3	CHM 11100	General Chemistry		3	-----	Economics Selective	
4	ENGL 10600	First-Year Composition					
3	MA 16010	Applied Calculus I	ALEKS 75+				
15				13			
Fall 2nd Year				Spring 2nd Year			
3	AGRY 25500	Soil Science	CHM 11200	3	AGRY 36500	Soil Fertility	AGRY 25500
3	AGRY 29000	Introduction to Environmental Science		3	COM 11400 or COM 21700	Fundamentals of Speech or Science Writing and Presentation	
1	AGRY 39800	Agronomy Seminar		4	PHYS 22000	General Physics	MA 22300
4	CHM 25700	Organic Chemistry	CHM 11200	3	-----	Ecology Selective	
1	CHM 25701	Organic Chemistry Laboratory		3	-----	Elective	
3	-----	Crop or Plant Science Selective					
15				16			
Fall 3rd Year				Spring 3rd Year			
4 or 3*	AGRY 38500 or AGRY 34900	Environmental Soil Chemistry or Soil Ecology	AGRY 25500 or BIOL 11000	3	AGRY 33700	Environmental Hydrology	
3	EASP 11100	Physical Geology		3	STAT 30100	Elementary Statistical Methods	
4	PHYS 22100	General Physics	PHYS 22000	3	-----	Genetics or Crop Physiology and Ecology, or Biochemistry selective	
3	-----	UCC Humanities Selective		3	-----	Humanities or Social Science Selective	
3*	-----	Elective		3	-----	Written or Oral Communication Selective	
16				15			
Fall 4th Year				Spring 4th Year			
3	AGRY 45000 or AGRY 58500	Soil Conservation and Water Management or Soils and Land Use	AGRY 25500	3	AGRY 33500	Weather and Climate	PHYS 22000
3	AGRY 46500	Soil Physical Properties	AGRY 25500	3	-----	Engineering or Science Selective	
1	AGRY 49800	Agronomy Senior Seminar		3	-----	Agricultural Economics, Economics, Management or Organizational Leadership and Supervision Selective	
3	AGRY 56500	Soil Classification, Genesis, and Survey	AGRY 25500	3	-----	Humanities or Social Science Selective	
3	-----	Humanities or Social Science Selective (30000+ level)		5*	-----	Electives	
13				17			

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The highlighted course is considered critical; timely progress toward the degree depends upon steady progress through each course in the plan of study, but this course, in particular, should be completed by the semester indicated.

Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.