

# Soil and Water Sciences

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

120 credits required for graduation

Credits	Course number	Course Title
<b>Departmental/Program Major Courses (109 to 110 credits)</b>		
<b>Required Major Courses (29 to 30 credits)</b>		
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
<b>Other Departmental /Program Course Requirements (80 credits) (See Agronomy Advising Resources)</b>		
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	-----	<u>Economics Selective (satisfies Human Culture Behavioral/Social Science for core)</u>
3	-----	<u>UCC Humanities Selective (satisfies Human Cultures Humanities for core)</u>
3	-----	<u>Humanities or Social Science Selective</u>
3	-----	<u>Humanities or Social Science Selective</u>
3	-----	<u>Humanities or Social Science Selective (30000+ level)</u>
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	-----	<u>Written or Oral Communications Selective</u>
<b>Electives (10 or 11 credits)</b>		
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:

# Soil and Water Sciences

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Credits	Course number	Course Title	Prerequisites	Credits	Course number	Course Title	Prerequisites
<b>Fall 1st Year</b>				<b>Spring 1st Year</b>			
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+				
<b>15</b>				<b>13</b>			

<b>Fall 2nd Year</b>				<b>Spring 2nd Year</b>			
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					
<b>15</b>				<b>16</b>			

<b>Fall 3rd Year</b>				<b>Spring 3rd Year</b>			
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	
<b>16</b>				<b>15</b>			

<b>Fall 4th Year</b>				<b>Spring 4th Year</b>			
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	
<b>13</b>				<b>17</b>			

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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.