

Credits	Course number	Course Title
<b>Departmental/Program Major Courses (108 to 114 credits)</b>		
<b>Required Major Courses (18 credits)</b>		
_____ 3	AGRY 25500	Soil Science
_____ 3	AGRY 28500	World Crop Adaptation and Distribution
_____ 3	AGRY 32000	Genetics
_____ 1	AGRY 32100	Genetics Laboratory
_____ 1	AGRY 39800	Agronomy Seminar
_____ 3	AGRY 48000	Plant Genetics
_____ 1	AGRY 49800	Agronomy Senior Seminar
_____ 3	AGRY 52000	Principles and Methods of Plant Breeding
<b><u>Other Departmental /Program Course Requirements (90 to 96 credits) (See Agronomy Advising Resources)</u></b>		
_____ 0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University
_____ 0.5	AGR 11300	Introduction to Agronomy Academic Programs
_____ 1	AGR 29000	Introduction to Plant Science
_____ 3 or 4	AGRY 52500 or HORT 30100	Crop Physiology and Ecology or Plant Physiology
_____ 3	BCHM 30700	Organic Chemistry
_____ 1	BCHM 30900	Organic Chemistry Laboratory
_____ 4	BIOL 11000	Fundamentals of Biology I
_____ 4	BIOL 11100 or BTNY 11000	Fundamentals of Biology II or Introduction to Plant Science
_____ 4	BIOL 22100	Introduction to Microbiology
_____ 3	BIOL 23100 or BTNY 42000	Biology III: Cell Structure and Function or Plant Cellular and Developmental Biology
_____ 3	BIOL 41500 or BTNY 35000	Introduction to Molecular Biology or Biotechnology in Agriculture
_____ 4	CHM 11500	General Chemistry (satisfies Science Selective for core)
_____ 4	CHM 11600	General Chemistry (satisfies Science Selective for core)
_____ 4	CHM 25700	Crop Physiology and Ecology or Plant Physiology
_____ 1	CHM 25701	Organic Chemistry
_____ 3 or 5	MA 16010 or MA 16100	Applied Calculus I or Plane Analytic Geometry and Calculus I (satisfies Quantitative Reasoning Selective for core)
_____ 3	STAT 30100	Elementary Statistical Methods (satisfies Information Literacy Selective for core)
_____ 3 or 5	MA 16020 or MA 16200	Applied Calculus II or Plane Analytic Geometry and Calculus II
_____ 4	PHYS 17200 or PHYS 22000	General Physics
_____ 4 or 3	PHYS 22100 or 24100	General Physics or Electricity and Optics
_____ 3	-----	<a href="#">Economics Selective (satisfies Human Culture Behavioral/Social Science for core)</a>
_____ 3	-----	<a href="#">UCC Humanities Selective (satisfies Human Cultures Humanities for core)</a>
_____ 3	-----	<a href="#">Humanities or Social Science Selective</a>
_____ 3	-----	<a href="#">Humanities or Social Science Selective</a>
_____ 3	-----	<a href="#">Humanities or Social Science Selective (30000+ level)</a>
_____ 9	-----	Directed Selective
_____ 4	ENGL 10600	First-Year Composition (satisfies Written Communication for core)
_____ 3	COM 11400 or COM 21700	Fundamentals of Speech Communication or Science Writing and Presentation (satisfies Oral Communication for core)
_____ 3	-----	<a href="#">Written or Oral Communications Selective</a>

**Electives (6 to 12 credits)**

\_\_\_\_\_ 6 to 12 \_\_\_\_\_ Elective (credits required depend on Math, Physics, & Physiology course choices)

**University Core Requirements:**

Human Cultures Humanities: _____	Science, Technology, and Society: _____
Human Cultures Behavioral/Social Science: _____	Written Communication: _____
Information Literacy: _____	Oral Communication: _____
Science #1: _____	Quantitative Reasoning: _____
Science #2: _____	

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: \_\_\_\_\_

# Plant Genetics, Breeding, and Biotechnology

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

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		4	CHM 11600	General Chemistry	CHM 11500
1	AGR 29000	Introduction to Plant Science		3 or 5*	MA 16020 or MA 16200	Applied Calculus II or Plane Analytic Geometry and Calculus II*	MA 16010 or MA 16100
4	BIOL 11000	Fundamentals of Biology I		3	-----	Elective*	
4	CHM 11500	General Chemistry	pre/co: calculus				
4	ENGL 10600	First-Year Composition					
3 or 5*	MA 16010 or MA 16100	Applied Calculus I or Plane Analytic Geometry and Calculus I*	ALEKS 75+ or ALEKS 85+				
<b>17</b>				<b>14</b>			

<b>Fall 2nd Year</b>				<b>Spring 2nd Year</b>			
3	AGRY 32000	Genetics	BIOL 11100	3	AGRY 28500	World Crop Adaptation and Distribution	
1	AGRY 32100	Genetics Laboratory		4	CHM 25700	Organic Chemistry	CHM 11600
1	AGRY 39800	Agronomy Seminar		1	CHM 25701	Organic Chemistry Laboratory	
4	PHYS 17200 or PHYS 22000	Modern Mechanics or General Physics*	MA 22300 or MA 16100	3	COM 11400 or COM 21700	Fundamentals of Speech or Science of Writing and Presentation	
3	-----	Economics Selective		4 or 3*	PHYS 22100 or PHYS 24100	General Physics or Electricity and Optics*	PHYS 22000 or PHYS 17200
3	-----	Directed Selective					
<b>15</b>				<b>14</b>			

<b>Fall 3rd Year</b>				<b>Spring 3rd Year</b>			
3	AGRY 25500	Soil Science	CHM 11200	4	BIOL 22100	Introduction to Microbiology	BIOL 11100
3	BCHM 30700	Biochemistry	CHM 25700	3	-----	Directed Selective	
1	BCHM 30900	Biochemistry Laboratory	CHM 25700	6	-----	Humanities or Social Science Selective	
3	BIOL 23100 or BTNY 42000	Biology III: Cell Structure and Function or Plant Cellular and Developmental Biology	BIOL 11100 or BTNY 11000	3	-----	Written or Oral Communication Selective	
3	-----	UCC Humanities Selective					
<b>13</b>				<b>16</b>			

<b>Fall 4th Year</b>				<b>Spring 4th Year</b>			
3	AGRY 48000	Plant Genetics	AGRY 32000	3 or 4*	AGRY 52500 or HORT 30100	Crop Physiology and Ecology or Plant Physiology	
1	AGRY 49800	Agronomy Senior Seminar		3	-----	Directed Selective	
3	AGRY 52000	Principles and Methods of Plant Breeding	AGRY 32000	3	-----	Humanities or Social Science Selective (30000+ level)	
3	BIOL 41500 or BTNY 35000	Introduction to Molecular Biology or Biotechnology in Agriculture	BIOL 23100 or BTNY 42000	6*	-----	Electives	
3	STAT 30100	Elementary Statistical Methods					
3*	-----	Elective					
<b>16</b>				<b>15</b>			

120 semester credits required for Bachelor of Science degree.  
2.0 GPa required for Bachelor of Science degree.

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.