

Applied Meteorology and Climatology

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

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		1	EAPS 13700	Freshman Seminar in Earth and Atmospheric Sciences	
3	CHM 11100	General Chemistry		4	ENGL 10600	First-Year Composition	
5	MA 16100	Plane Analytic Geometry and Calculus I	ALEKS 75+	5	MA 16200	Plane Analytical Geometry and Calculus II	MA 16100

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Fall 2nd Year				Spring 2nd Year			
1	AGR 39800	Agronomy Seminar		3	AGRY 33500	Weather and Climate	PHYS 17200
3	COM 11400 or COM 21700	Fundamentals of Speech or Science Writing and Presentation		4	MA 26200	Linear Algebra and Differential Equations	
3	CS 15800	C Programming	MA 16100	3	PHYS 24100	Electricity and Optics	PHYS 17200
4	MA 26100	Multivariate Calculus	MA 16200	3	-----	Economics Selective	
4	PHYS 17200	Modern Mechanics	MA 16100	3	-----	Humanities or Social Science Selective	

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Fall 3rd Year				Spring 3rd Year			
3	AGRY 43100	Atmospheric Thermodynamics	AGRY 33500	3	AGRY 28500	World Crop Adaptation and Distribution	
1	AGRY 44100	Synoptic Laboratory I	AGRY 43100	3	AGRY 43200	Atmospheric Dynamics I	MA 26200
3	STAT 30100	Elementary Statistical Methods		1	AGRY 44200	Synoptic Laboratory II	AGRY 44100
3	-----	UCC Humanities selective		3	-----	Humanities or Social Science Selective	
3	-----	Humanities or Social Science Selective (30000+ level)		4	-----	Electives	
3	-----	Written or Oral Communication selective					

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Fall 4th Year				Spring 4th Year			
3	AGRY 43300	Atmospheric Dynamics II	AGRY 43200	3	AGRY 33700	Environmental Hydrology	
1	AGRY 44300	Synoptic Laboratory III	AGRY 44200	3	AGRY 53600	Environmental Biophysics	BIOL 11000
1	AGRY 49800	Agronomy Senior Seminar		3	EAPS 43400	Weather Analysis and Forecasting	AGRY 43300
3	AGRY 53500	Boundary-Layer Technology	AGRY 33500, MA 26200, PHYS 24100	3	EAPS 53200	Atmospheric Physics I	AGRY 44100
3	AGRY 54500	Remote Sensing of Land Resources	AGRY 25500	3	-----	Elective	
3	EAPS 53500	Atmospheric Observations and Measurements					

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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.

Applied Meteorology and Climatology

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120 credits required for graduation

Credits Course number Course Title
Departmental/Program Major Courses (113 credits)
Required Major Courses (32 credits)

_____	3	AGRY 28500	World Crop Adaptation and Distribution (satisfies Science, Technology and Society for core)
_____	3	AGRY 33500	Weather and Climate
_____	3	AGRY 33700	Environmental Hydrology
_____	1	AGRY 39800	Agronomy Seminar
_____	3	AGRY 43100	Atmospheric Thermodynamics
_____	3	AGRY 43200	Atmospheric Dynamics I
_____	3	AGRY 43300	Atmospheric Dynamics II
_____	1	AGRY 44100	Synoptic Laboratory I
_____	1	AGRY 44200	Synoptic Laboratory II
_____	1	AGRY 44300	Synoptic Laboratory III
_____	1	AGRY 49800	Agronomy Senior Seminar
_____	3	AGRY 53500	Boundary-Layer Technology
_____	3	AGRY 53600	Environmental Biophysics
_____	3	AGRY 54500	Remote Sensing of Land Resources

Other Departmental /Program Course Requirements (81 credits) (See Agronomy Advising Resources)

_____	0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University
_____	0.5	AGR 11300	Introduction to Agronomy Academic Programs
_____	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)
_____	3	CS 15800	C Programming
_____	1	EAPS 13700	Freshman Seminar in Earth and Atmospheric Sciences
_____	3	EAPS 43400	Weather Analysis and Forecasting
_____	3	EAPS 53200	Atmospheric Physics I
_____	3	EAPS 53500	Atmospheric Observations and Measurements
_____			Plane Analytic Geometry and Calculus I (satisfies Quantitative Reasoning Selective for core)
_____	5	MA 16100	
_____	5	MA 16200	Plane Analytical Geometry and Calculus II
_____	4	MA 26100	Multivariate Calculus
_____	4	MA 26200	Linear Algebra and Differential Equations
_____	4	PHYS 17200	Modern Mechanics
_____	3	PHYS 24100	Electricity and Optics
_____	3	STAT 30100	Elementary Statistical Methods (satisfies Information Literacy Selective for core)
_____	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 (7 credits)

_____	7	-----	Elective
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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: _____

