

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	Fundamentals of Speech Communication		4	MA 26200	Linear Algebra and Differential Equations	MA 26100
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.

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

<https://ag.purdue.edu/oap/Pages/major.aspx> 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)
_____			Plane Analytic Geometry and Calculus I (satisfies Quantitative Reasoning Selective for core)
_____	5	MA 16100	
_____	3	STAT 30100	Elementary Statistical Methods (satisfies Information Literacy Selective for core)
_____	5	MA 16200	Plane Analytical Geometry and Calculus II
_____	4	MA 26100	Multivariate Calculus
_____	4	PHYS 17200	Modern Mechanics
_____	4	ENGL 10600	First-Year Composition (satisfies Written Communication for core)
_____	3	COM 11400	Fundamentals of Speech Communication (satisfies Oral Communication for core)
_____	3	-----	Written or Oral Communications Selective
_____	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)
_____	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
_____	4	MA 26200	Linear Algebra and Differential Equations
_____	3	PHYS 24100	Electricity and Optics

Electives (7 credits)

7 ----- Elective

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.