PURDUE UNIVERSITY

Applied Meteorology & Climatology

Agronomy Department / College of Agriculture

COA-AGRY-BS / Major: AMCL 201710

120 Credits for graduation

Name:_____ **PUID:**_____ **Date:** _____

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 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
_____ (4) BIOL 11100 or BTNY 11000 Fundamentals of Biology II or Introduction to Plant Science
_____ (3) CHM 11100 General Chemistry ***(satisfies Science #1 for core)***
_____ (3) CHM 11200 General Chemistry ***(satisfies Science #2 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
_____ (5) MA 16100 Plane Analytic Geometry and Calculus I (satisfies Quantitative Reasoning Selective for core)
_____ (5) MA 16200 Plane Analytical Geometry and Calculus II
_____ (4) MA 26100CC 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)[4]
_____ (3) UCC Humanities Selective (satisfies Human Cultures Humanities for core)[1]
_____ (3) Humanities or Social Science Selective[3]
_____ (3) Humanities or Social Science Selective[3]
_____ (3) Humanities or Social Science Selective (30000+ level)[3]
_____ (4) ENGL 10600 First-Year Composition ***(satisfies Written Communication for core)***
_____ (3) COM 11400 or Fundamentals of Speech Communication ***(satisfies Oral Communication for core)***
COM 21700 Science Writing and Presentation
_____ (3) Written or Oral Communication Selective[2]

Electives (7 credits)

_____ (7) Elective

University Core Requirements (http://www.purdue.edu/provost/initiatives/curriculum/course.html)

Human Cultures Humanities	☐ _____	*Science, Technology & Society Selective*	☐ _____
Human Cultures Behavioral/Social Science	☐ _____	*Written Communication*	☐ _____
Information Literacy	☐ _____	*Oral Communication*	☐ _____
Science Selective	☐ _____	*Quantitative Reasoning*	☐ _____
Science Selective	☐ _____		

College of Agriculture & University Level Requirements (https://ag.purdue.edu/oap/Pages/core_requirements.aspx)

3 credits Multicultural Awareness	☐ _____		
9 credits International Understanding	☐ _____	☐ _____	☐ _____
9 credits of Hum. And/or Social Sciences outside the College of Agriculture	☐ _____	☐ _____	☐ _____
3 credits of Hum. And/or Social Science at 30000 or higher	☐ _____		

Applied Meteorology & Climatology

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite
0.5	AGR 10100 Intro to the College of Agriculture and Purdue University	
0.5	AGR 11300 Introduction to Agronomy Academic Programs	
4	BIOL 11000 Fundamentals of Biology I	
3	CHM 11100 General Chemistry	
5	MA 16100 Plane Analytic Geometry and Calculus I	ALEKS 75+
13		

Credits	Spring 1st Year	Prerequisite
4	BIOL 11100 Fundamentals of Biology II or BTNY 11000 Introduction to Plant Science	BIOL 11000
3	CHM 11200 General Chemistry	CHM 11100
1	EAPS 13700 Freshman Seminar in Earth and Atmospheric Sciences	
4	ENGL 10600 First-Year Composition	
5	MA 16200 Plane Analytical Geometry and Calculus II	MA 16100
17		

Credits	Fall 2nd Year	Prerequisite
1	AGRY 39800 Agronomy Seminar	
3	COM 11400 Fundamentals of Speech or COM 21700 Science Writing and Presentation	
3	CS 15800 C Programming	MA 16100
4	MA 26100CC Multivariate Calculus	MA 16200
4	PHYS 17200 Modern Mechanics	MA 16100
15		

Credits	Spring 2nd Year	Prerequisite
3	AGRY 33500 Weather and Climate	PHYS 17200
4	MA 26200 Linear Algebra and Differential Equations	MA 26100
3	PHYS 24100 Electricity and Optics	PHYS 17200
3	Economics Selective	
3	Humanities or Social Science Selective	
16		

Credits	Fall 3rd Year	Prerequisite
3	AGRY 43100 Atmospheric Thermodynamics	AGRY 33500
1	AGRY 44100 Synoptic Laboratory I	AGRY 43100
3	STAT 30100 Elementary Statistical Methods	
3	UCC Humanities selective	
3	Humanities or Social Science Selective (30000+ level)	
3	Written or Oral Communication selective	
16		

Credits	Spring 3rd Year	Prerequisite
3	AGRY 28500 World Crop Adaptation and Distribution	
3	AGRY 43200 Atmospheric Dynamics I	MA 26200
1	AGRY 44200 Synoptic Laboratory II	AGRY 44100
3	Humanities or Social Science Selective	
4	Electives	
14		

Credits	Fall 4th Year	Prerequisite
3	AGRY 43300 Atmospheric Dynamics II	AGRY 43200
1	AGRY 44300 Synoptic Laboratory III	AGRY 44200
1	AGRY 49800 Agronomy Senior Seminar	
3	AGRY 53500 Boundary-Layer Technology	AGRY 33500, MA 26200, PHYS 24100
3	AGRY 54500 Remote Sensing of Land Resources	AGRY 25500
3	EAPS 53500 Atmospheric Observations and Measurements	
14		

Credits	Spring 4th Year	Prerequisite
3	AGRY 33700 Environmental Hydrology	
3	AGRY 53600 Environmental Biophysics	BIOL 11000
3	EAPS 43400 Weather Analysis and Forecasting	AGRY 43300
3	EAPS 53200 Atmospheric Physics I	AGRY 44100
3	Elective	
15		

1) 120 credits listed above are required for Bachelor of Science degree.
2) 2.0 Graduation GPA required for Bachelor of Science degree.
3) 32 credits of upper division courses (30000 level or higher) must be taken at Purdue University, West Lafayette.
4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, I AND IF).
5) CC = is considered a critical course

See next page for all supplemental Information

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The student is ultimately responsible for knowing and completing all degree requirements.
myPurdue Plan is knowledge source for specific requirements and completion

AMCL Supplemental Information

All prerequisites must be met

[1]University Core Curriculum Humanities Selective (3 credits)

See approved Humanities list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html

[2]Written or Oral Communication Selective (3 credits)

ENGL 20000 - 59900	AGR 20100 Communicating Across Culture
COM 20000 -59900	YDAE 44000 Methods of Teaching Agriculture Education
ASL 10000 - 59900	

[3]Humanities and Social Science Selective (9 credits)

See approved list at: https://ag.purdue.edu/oap/pages/core-social_humanities.aspx

[4]Economics Selective (3 credits)

AGEC 20300 Introductory Microeconomics for Food and Agribusiness	AGEC 21700 Economics	ECON 25100 Microeconomics
AGEC 20400 Introduction to Resource Economics and Environmental Policy	ECON 21000 Principles of Economics	ECON 25200 Macroeconomics