PURDUE UNIVERSITY

Atmospheric Science
College of Science

2022-2023

Program Progression Guide

Disclaimer: The 2022-2023 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2022, Spring 2023, and Summer 2023 semesters. The Program Progression Guide assists students in the development of an individualized 8-semester plan. Students are encouraged to use this guide, myPurduePlan* (online degree auditing tool) and the Student Educational Planner (SEP) as they work with their academic advisor towards the completion of their degree requirements.
Notification: Each student is ultimately responsible for knowing, monitoring and completing all degree requirements.

An undergraduate degree in the College of Science requires completion of the following degree requirements.

<table>
<tr><th colspan="3">University Degree Requirements</th></tr>
<tr><td>Minimum 2.0 Cumulative GPA</td><td>Minimum 120 Credits that fulfill degree requirements</td><td>32 Residency Credits (30000 and above) at a Purdue University campus</td></tr>
<tr><th colspan="3">University Core Curriculum**</th></tr>
<tr><td colspan="2">Human Cultures: Behavioral/Social Science
Human Cultures: Humanities
Information Literacy
Oral Communication
University Core Curriculum
Course Listing</td><td>Quantitative Reasoning
Science
Science, Technology & Society Selective
Written Communication</td></tr>
<tr><th colspan="3">Required Major Program Courses</th></tr>
<tr><td colspan="3">Departmental specific requirements. 2.0 average in EAPS major classes required to graduate.
Minimum 2.0 cumulative GPA</td></tr>
<tr><th colspan="3">College of Science Core Curriculum</th></tr>
<tr><td>Freshman Composition – 3 credits
Technical Writing and Presentation - 3 credits
Teaming & Collaboration (NC)
General Education - 9 credits</td><td>Foreign Language & Culture – 9 credits
Great Issues - 3 credits
Laboratory Science - 8 credits
Multidisciplinary - 3 credits</td><td>Mathematics - 6-10 credits
Statistics - 3 credits
Computing - 3 credits</td></tr>
<tr><th colspan="3">Degree Electives</th></tr>
<tr><td colspan="3">Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. Consult the No Count course list for courses, which may not be used to meet any College of Science degree requirement.</td></tr>
</table>

* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

** University Core Curriculum Outcomes may be met through completion of the College of Science Core curriculum. Students should consult with their academic advisors and myPurdue Plan for course selections.

2022-23 Atmospheric Science Degree Progression Guide

The EAPS Department has *suggested* the following degree progression guide for the Atmospheric Degree. Students will work with their academic advisors to determine their best path to degree completion. Course pre-requisites are specific to this degree plan.

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3	EAPS 11700 CC * Intro to Atms. Science		3	EAPS 100-level CC	
1	EAPS 13700 CC Freshman seminar		4-5	MA 16200 or MA 16600 CC * CALC 2	Calculus I
4-5	MA 16100 or MA 16500 CC CALC 1	ALEKS 85+ or SAT/ACT	4	CS 17700 Programming with Multimedia Objects	
4	CHM 11500 CC * General Chemistry	ALEKS 75+ or SAT/ACT	3	Language I Selective	
3-4	ENGL 10600 or ENGL 10800* or SLCA 10100 Fresh. Comp				
15-17			**14-15**		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	EAPS 22500 CC * Science of Atmosphere	Calculus I co-req	2	EAPS 22900 Intro Weather Climate Data	EAPS 225
4	MA 26100* CALC 3 **or** MA 27101* Honors CALC 3	Calculus II	3	MA 26600* Differential Equations	Calculus III
4	PHYS 17200 CC * CALC-based Physics 1	Calculus I co-req	4	PHYS 27200* CALC-based Physics 2 **or** PHYS 24100* Electricity and Optics **and** PHYS 25200* Electricity and Optics Lab	PHYS 172
3	EAPS 22700 Atmos. Observation/Measurement		3	Language III/Culture/Diversity Option	Poss Lang 102
3	Language II Selective	Language 101	3	Free Elective	
17			**15**		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	EAPS 42100 Atmospheric Thermodynamics	EAPS 225; Calc III; PHYS 172	3	EAPS 42200 Atmospheric Dynamics 1	EAPS 229;EAPS 421; MA 266
3	MA 26500 Linear Algebra	Calc III	3	EAPS 53200 Atmospheric Physics	EAPS 431; MA 266
3	COM 21700* Public Speaking on Tech. Topics		3	Science Core Selective	
3	EAPS 50700 Data Analysis	Calc I, EAPS 229	3	Statistics Selective* [EAPS 310 Rec; spring]	
3	General Education I Selective*		3	Free Elective	
15			**15**		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	EAPS 42501 Physics of climate	EAPS 229; EAPS 421; EAPS422; MA 266; PHYS 272	3	EAPS 400/500 Selective (500 for Masters)	Instructor Permission
3	Great Issues Course		3	General Education III Selective	
3	EAPS 42300 Atmospheric Dynamics 2	EAPS 229; EAPS 422	3	Science Core Selective	
3	General Education II Selective*		3	Free Elective (500 for Masters)	
			3	Free Elective	
12			**15**		

CC Identified as a critical course. Student should earn minimum of a C- see advisor for further details.

* Satisfies a University Core Requirement; Courses in ( ) are recommended * *Consult the University Core Requirement course list for approved course.*

EAPS 400/500 Selective	
EAPS 43400 Weather Analysis and Forecasting	EAPS 52500 Boundary Layer Meteorology
EAPS 49700 Undergraduate Reading and Research	EAPS 53000 Extreme Weather and Climate: Science and Risk
EAPS 51500 Geodata Science	EAPS 53400 Tropical Meteorology
EAPS 52000 Theory of Climate	EAPS 53600 Introduction to General Circulation
EAPS 52100 Atmospheric Chemistry	EAPS 53900 Mesoscale Meteorology
EAPS 52300 Radar Meteorology	