



LONG RANGE PLAN

Name

A#

Career Goals

National Weather Service (NWS) Certification Pathway*

Major
Minor
Concentration

AES - Atmospheric & Earth Science

ATS/MET - Atmos Sci/Meteorology

ALL 300+

FA - Fall ONLY		
Fall 2025		
Course	ALL	300+
MA 171/ Calculus I	4	
EH 101/ College Writing	3	
AES 103 & 103L/ Environmental Earth Science + lab	4	
AES 104 & 104L/ Weather & Climate Change + lab	4	
FYE 101S/ First Year Experience /FA	1	
semester total	16	0

SP - Spring ONLY		
Spring 2026		
Course	ALL	300+
MA 172/ Calculus II	4	
EH 102/ College Writing II	3	
AES 212 & 212L/ Severe Weather Analysis + lab /SP	4	
PH 111 & 114/ Physics w/Calculus I + lab	4	
semester total	15	0

Credits Complete		
Summer 2026		
Course	ALL	300+
semester total	0	0
year total	31	0

Fall 2026		
Course	ALL	300+
MA 201/ Calculus III	4	
AES 209/ Data Analysis Tools /FA	2	
PH 112 & 115/ Physics w/Calculus II + lab	4	
CS 104/ Intro to Python Programming	3	
Social/Behavioral Scienc (AES 110/ Human Geography recommended)	3	
semester total	16	0

Spring 2027		
Course	ALL	300+
MA 238/ Applied Differential Equations	3	
AES 301/ Intro to Earth & Atmos Physics / SP	3	3
CH 121 & 125/ General Chemistry I + lab	4	
Fine Art	3	
Social/Behavioral Science (AES 105/ World Geography recommended)	3	
semester total	16	3

Summer 2027		
Course	ALL	300+
semester total	0	0
year total	32	3

Fall 2027		
Course	ALL	300+
Applied Statistics - Choose 1: MA 281, MA 385, PSC 300, PY 300, or SOC 303	3	
AES 321/ Pollution Problems (or AES 370 in Spring) -->	3	3
AES 341/ Thermodynamic Meteorology /FA	3	3
AES 351/ Dynamic Meteorology /FA	3	3
HY History/ HY 103, 104, 221, or 222	3	
semester total	15	9

Spring 2028		
Course	ALL	300+
AES 303/ Physical Climate /SP	3	3
AES 352/ Synoptic Meteorology/SP	3	3
AES 370/ Remote Sensing (if didn't take 321 in Fall)		
AES 498/ UG Capstone	1	1
HY History/ HY 103, 104, 221, or 222	3	
EH Literature/EH 207, 208, 241, 242, 243, 244, 245, or 246	3	
semester total	13	7

Summer 2028		
Course	ALL	300+
semester total	0	0
year total	28	16

Fall 2028		
Course	ALL	300+
AES 409/ Programming for AES/FA	3	3
AES 410/ Operational Weather Forecasting /FA	3	3
Atmospheric/Meteorology Elective 300+/400+ course	3	3
Non-Literature Humanity	3	
General Elective	3	
semester total	15	9

Spring 2029		
Course	ALL	300+
AES 454/ Forecasting Mesoscale Process /SP	3	3
AES 471/ Intro to Radar Meteorology /SP	3	3
Atmospheric/Meteorology Elective 300+/400+ course	3	3
Humanities/2nd Fine Art/2nd Literature	3	
General Elective	2	
semester total	14	9

Summer 2029		
Course	ALL	300+
semester total	0	0
year total	29	18

FA - Fall ONLY

SP - Spring ONLY

Grand Total 120 (120) 37 (36)

Updated By: Amazing Advisor

Notes: *Some AES 300+ or 400+ electives can be adjusted if NWS certification is no longer goal.

Charger Foundation (CF) courses

General Elective

Classes that are required for graduation and easily shifted to fit around other courses. Offered in FA/SP/SU.

General Electives can be ANY course offered for credits toward your minimum total. [Course Descriptions](#) will help you choose.

Apply to graduate
by Sept 1st for Spring
by Feb 1st for Summer
by June 1st for Fall

Graduation checklist and graduation application:
<https://www.uah.edu/registrar/commencement/checklist>