

****NOTE THAT THIS PLAN DOES NOT PROVIDE THE CALCULUS & PHYSICS NECESSARY FOR MS AES (ESS) ADMISSION REQUIREMENTS****



LONG RANGE PLAN

Name _____
A# _____
Career Goals _____

Major **AES- Atmospheric & Earth Science**
Minor _____
Concentration **ESS - Earth System Science**

| FA - Fall ONLY | | | SP - Spring ONLY | | | Credits Complete | | |
|--|-----|------|---|-----|------|------------------|-----|------|
| Fall 2025 | | | Spring 2026 | | | Summer 2026 | | |
| Course | ALL | 300+ | Course | ALL | 300+ | Course | ALL | 300+ |
| Math 1 - Choose one: MA 120, MA 171, MA 172, or MA 281 | 4 | | Math 2: Choose one: MA 120, MA 171, MA 172, or MA 281 | 4 | | | | |
| EH 101/ College Writing | 3 | | EH 102/ College Writing II | 3 | | | | |
| AES 104 & 104L/ Weather & Climate Change + lab | 4 | | AES 103 & 103L/ Environmental Earth Science + lab | 4 | | | | |
| FYE 101S/ First Year Experience /FA | 1 | | CS 104/ Intro to Computer Programming | 3 | | | | |
| Social/Behavioral Science (AES 110/ Human Geography recommended) | 3 | | General Elective | 1 | | | | |
| | | | | | | | | |
| semester total | 15 | 0 | semester total | 15 | 0 | semester total | 0 | 0 |
| | | | | | | year total | 30 | 0 |
| Fall 2026 | | | Spring 2027 | | | Summer 2027 | | |
| Course | ALL | 300+ | Course | ALL | 300+ | Course | ALL | 300+ |
| Applied Statistics - Choose one: MA 281, MA 385, PSC 300, PY 300, or SOC 303 | 3 | | AES 301/ Intro to Earth & Atmos Physics / SP | 3 | 3 | | | |
| AES 209/ Data Analysis Tools /FA | 2 | | AES 303/ Physical Climate /SP | 3 | 3 | | | |
| Biology/Chemistry - Choose one: BYS 120 & 122, CH 101 & 105, or CH 121 & 125 | 4 | | AES 313/ Geographic Info Systems | 3 | 3 | | | |
| PH 101&L/ General Physics I + lab/FA | 4 | | PH 102&L/ General Physics II + lab/SP | 4 | | | | |
| | | | Social/Behavioral Science (AES 105/ World Geography recommended) | 3 | | | | |
| | | | | | | | | |
| semester total | 13 | 0 | semester total | 16 | 9 | semester total | 0 | 0 |
| | | | | | | year total | 29 | 9 |
| Fall 2027 | | | Spring 2028 | | | Summer 2028 | | |
| Course | ALL | 300+ | Course | ALL | 300+ | Course | ALL | 300+ |
| AES 321/ Pollution Problems OR 312 Principles of Ecology | 3 | 3 | AES 305/ Hydrology /SP | 3 | 3 | | | |
| ESS Concentration Elective | 3 | | AES 408/ Python for GIS OR 409/ Programming for Earth & Atmos in Fall | 3 | 3 | | | |
| AES 370/ Remote Sensing | 3 | 3 | AES 498/ UG Capstone | 1 | 1 | | | |
| HY History/ HY 103, 104, 221, or 222 | 3 | | HY History/ HY 103, 104, 221, or 222 | 3 | | | | |
| EH Literature/EH 207, 208, 241, 242, 243, 244, 245, or 246 | 3 | | Fine Art | 3 | | | | |
| | | | General Elective | 3 | | | | |
| semester total | 15 | 6 | semester total | 16 | 7 | semester total | 0 | 0 |
| | | | | | | year total | 31 | 13 |
| Fall 2028 | | | Spring 2029 | | | Summer 2029 | | |
| Course | ALL | 300+ | Course | ALL | 300+ | Course | ALL | 300+ |
| AES 409/ Programming for Earth & Atmos (If didn't take 408 in Spring) | | | ESS Concentration Elective | 3 | | | | |
| ESS Concentration Elective AES 300+ or 400+ | 3 | 3 | ESS Concentration Elective AES 300+ or 400+ | 3 | 3 | | | |
| ESS Concentration Elective AES 400+ | 3 | 3 | ESS Concentration Elective AES 400+ | 3 | 3 | | | |
| Humanities/2nd Fine Art/2nd Literature | 3 | | Non-Literature Humanity | 3 | | | | |
| General Elective | 3 | | General Elective 300+ or 400+ course | 3 | 3 | | | |
| General Elective | 3 | | | | | | | |
| semester total | 15 | 6 | semester total | 15 | 9 | semester total | 0 | 0 |
| | | | | | | year total | 30 | 15 |
| FA - Fall ONLY | | | SP - Spring ONLY | | | Grand Total | | |
| | | | | | | 120 37 | | |
| | | | | | | (120) (36) | | |

Updated By: **Amazing Advisor**

Notes:

Charger Foundation (CF) & General Elective courses Classes that are required for graduation and easily shifted around other courses. Offered in every semester.

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

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