

ACADEMIC MAP

General Atmospheric Sciences, Bachelor of Science



FINISH IN



First Year			Third Year		
Fall			Fall		
UNIV 1101	University Seminar I	1	MATH 3311	Linear Algebra	3
MATH 2413	Calculus I	4	ATSC 3305	Physical Meteorology	3
ATSC 2403	Introduction to Meteorology	4	ATSC 3401	Synoptic Meteorology	4
ENGL 1301	Writing and Rhetoric I	3	POLS 2305	U.S. Government and Politics	3
ATSC 2302	Introduction of Data Analysis in Atmospheric Sciences	3	Social and Behavioral Sciences Core Requirement		
Hours		15	Hours		16
Spring			Spring		
UNIV 1102	University Seminar II	1	MATH 3315	Differential Equations	3
PHYS 2425	University Physics I	4	ATSC 3402	Mesoscale Meteorology	4
COMM 1311	Foundation of Communication	3	ESCI 4360	Physical Oceanography	3
POLS 2306	State and Local Government	3	ATSC Elective		4
MATH 2414	Calculus II	4	ATSC Elective		3
Hours		15	Hours		17
Second Year			Fourth Year		
Fall			Fall		
MATH 2415	Calculus III	4	MATH 3345	Statistical Modeling and Data Analysis	3
ATSC 3306	Atmospheric Thermodynamics	3	ATSC 4335	Climate and Climate Variability	3
HIST 1302	U.S. History Since 1865	3	UL ATSC Elective		3
PHYS 2426	University Physics II	4	Language, Philosophy, & Culture Core Requirement		
Hours		14	Hours		12
Spring			Spring		
ATSC 4301	Dynamic Meteorology I	3	ATSC 4305	Remote Sensing	3
ATSC 2301	Weather Observations	3	UL ATSC Elective		3
CHEM 1411	General Chemistry I	4	UL ATSC Elective		4
HIST 1302	U.S. History Since 1865	3	Creative Arts Core Requirement		3
ATSC Elective		4	Electives as needed for min 120		1
Hours		17	Hours		14
			Total Hours		120



CAREER MAP

General Atmospheric Sciences *Bachelor of Science*



The Bachelor of Science program in Atmospheric Sciences addresses the needs of students interested in studying meteorology or climate science. The program provides students with an in-depth knowledge of the physical characteristics, motions, and processes of air, as well as the interactions of this protective layer with the underlying oceans and continents. The undergraduate program emphasizes a systems approach, combining traditional atmospheric sciences with emerging fields. In particular, the program focuses on the fields of tropical meteorology and oceanography that are directly linked to the Gulf of Mexico and surrounding coastal regions where the university is strategically located. The atmospheric sciences core provides students with a broad background in meteorology and climate sciences and satisfy the requirements for federal employment as a National Weather Service meteorologist (also referred to as NOAA GS1340 positions). The students can choose a career track in either general atmospheric sciences or the broadcast meteorology.

CONTACT INFORMATION

Career Counselor:

Career and Professional Development Center
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Internship Coordinator:

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CAREER OPTIONS

- Research Scientist
- Meteorologist
- Atmospheric Scientist
- Weather Forecaster
- Environmental Consultant
- Climate Analyst
- Emergency Management Specialist
- Data Scientist - Weather, Climate and Air Quality

ADDITIONAL PROGRAM REQUIREMENTS

1. American Meteorological Society
2. National Weather Association
3. World Meteorological Organization

SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving
- Professionalism/Work Ethic
- Oral/Written Communication
- Digital Technology

STUDENT ORGANIZATIONS

- American Meteorological Society, Islander Student Chapter
- SACNAS Chapter at TAMU-CC
- Islander Student Chapter of the American Meteorological Society - Chuntao Liu