

ACADEMIC MAP

Broadcast Meteorology Atmospheric Sciences, Bachelor of Science



First Year

Fall		Hours
UNIV 1101	University Seminar I	1
MATH 2413	Calculus I	4
ATSC 2403	Introduction to Meteorology	4
ENGL 1301	Writing and Rhetoric I	3
ATSC 2302	Introduction of Data Analysis in Atmospheric Sciences	3
Hours		15

Spring

UNIV 1102	University Seminar II	1
PHYS 2425	University Physics I	4
COMM 1311	Foundation of Communication	3
POLS 2306	State and Local Government	3
MATH 2414	Calculus II	4
Hours		15

Second Year

Fall		Hours
MATH 2415	Calculus III	4
ATSC 3306	Atmospheric Thermodynamics	3
HIST 1301	U.S. History to 1865	3
PHYS 2426	University Physics II	4
Hours		14

Spring

ATSC 4301	Dynamic Meteorology I	3
ATSC 2301	Weather Observations	3
CHEM 1411	General Chemistry I	4
HIST 1302	U.S. History Since 1865	3
ATSC Elective		3
Hours		16

Third Year

Fall		Hours
MATH 3311	Linear Algebra	3
ATSC 3305	Physical Meteorology	3
ATSC 3401	Synoptic Meteorology	4
POLS 2305	U.S. Government and Politics	3
Social and Behavioral Sciences Core Requirement		3
Hours		16

Spring

MATH 3315	Differential Equations	3
ATSC 3402	Mesoscale Meteorology	4
ESCI 4360	Physical Oceanography	3
ATSC 2101	Weathercasting	1
Elective		3
ATSC Elective		3
Hours		17

Fourth Year

Fall		Hours
MATH 3345	Statistical Modeling and Data Analysis	3
ATSC 4335	Climate and Climate Variability	3
UL ATSC elective		4
Language, Philosophy, & Culture Core requirement		3
Hours		13

Spring

ATSC 4305	Remote Sensing	3
UL ATSC Elective		3
UL Elective or ATSC 4498 Internship in Atmospheric Science		3-4
Creative Arts Core Requirement		3
Electives as needed for min 120		2

Hours		14-15
Total Hours		120-121

This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/



CAREER MAP

Atmospheric Sciences-Broadcast Meteorology *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
UC 304 | 361.825.2628
career.center@tamucc.edu

Internship Coordinator:

Patrick Fitzpatrick
CS 243 | 361.825.4061
patrick.fitzpatrick@tamucc.edu

Department Contact:

Department of Physical and Environmental Sciences
NRC 3500 | 361.825.2814
richard.coffin@tamucc.edu

CAREER OPTIONS

- Meteorologist
- Atmospheric Scientist
- Environmental Consultant
- Weather Forecaster
- Climate Analyst
- Researcher
- Weather Producer
- 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