

# Texas A & M University-Corpus Christi

## Curriculum Sheet for 2019-2020 Catalog

Degree: **Bachelor of Science**  
 Major: **Atmospheric Sciences**  
 Concentration: **General Track**

### UNIVERSITY CORE CURRICULUM:

		<u>HOURS</u>	<u>PREREQUISITES</u>
_____	COMM 1311	Foundations of Communications	<u>3</u>
_____	ENGL 1302	Writing and Rhetoric	<u>3</u>
_____	See Catalog	Mathematics	<u>3</u>
_____	See Catalog	Life and Physical Sciences	<u>6</u>
_____	See Catalog	Language, Philosophy, or Culture	<u>3</u>
_____	See Catalog	Creative Arts	<u>3</u>
_____	HIST 1301	US History to 1865	<u>3</u>
_____	HIST 1302	US History since 1865	<u>3</u>
_____	POLS 2305	US Government and Politics	<u>3</u>
_____	POLS 2306	State and Local Government	<u>3</u>
_____	See Catalog	Social and Behavioral Science	<u>3</u>
_____	See Catalog	Component Area	<u>6</u>

### SUPPORTING COURSES - 12 hours

_____	MATH 2413	Calculus I	<u>4</u>	MATH 1314 + 1316 or MATH 2312 or above
_____	PHYS 2425	University Physics I	<u>4</u>	MATH 2413
_____	PHYS 2426	University Physics II	<u>4</u>	MATH 2414

### MAJOR REQUIREMENTS - 60 hours

_____	ATSC 2403/3403	Introduction to Meteorology FL,SP	<u>4</u>	<i>Crosslisted with ESCI 3403</i>
_____	ATSC 2301	Weather Observations SP	<u>3</u>	ATSC 2403 or ESCI 3403
_____	ATSC 3306	Atmospheric Thermodynamics	<u>3</u>	ATSC 2403 + PHYS 2425
_____	ATSC 3305	Physical Meteorology FL	<u>3</u>	ATSC 2403 + PHYS 2426
_____	ATSC 3401	Synoptic Meteorology	<u>4</u>	ATSC 3306
_____	ATSC 3402	Mesoscale Meteorology	<u>4</u>	ATSC 3306
_____	ATSC 4301	Dynamic Meteorology I	<u>3</u>	ATSC 3306 + MATH 2414
_____	ATSC 4302	Dynamic Meteorology II	<u>3</u>	ATSC 4301
_____	ATSC 4305	Remote Sensing	<u>3</u>	PHYS 2426
_____	ATSC 4335	Climate and Climate Variability SP	<u>3</u>	ATSC 2403 or ESCI 3351 or 3403
_____	CHEM 1411	General Chemistry I	<u>4</u>	MATH 1314 placement or above
_____	COSC 1330	Programming for Scientists, Engineers, & Mathematicians	<u>3</u>	
_____	ESCI 4360	Physical Oceanography FL	<u>3</u>	PHYS 1401 or PHYS 2425
_____	MATH 2414	Calculus II	<u>4</u>	MATH 2413
_____	MATH 2415	Calculus III	<u>4</u>	MATH 2414
_____	MATH 3311	Linear Algebra	<u>3</u>	MATH 2413
_____	MATH 3315	Differential Equations	<u>3</u>	MATH 2414
_____	MATH 3345	Statistical Modeling and Data Analysis	<u>3</u>	MATH 2414 + COSC 1330 or 1435

### GENERAL ATMOSPHERIC SCIENCE TRACK - 18 hours (min 7 hours upper level)

_____	ATSC 4496	Directed Independent Study	<u>1-4</u>	Approval from Chair and Dean
_____	ATSC 4498	Internship in Atmospheric Science	<u>1-4</u>	
_____	ATSC 4590	Selected Topics	<u>1-5</u>	Varies
_____	CHEM 1412	General Chemistry II	<u>4</u>	CHEM 1411
_____	CHEM 3411	Organic Chemistry I	<u>4</u>	CHEM 1411
_____	ESCI 1401	Intro to Environmental Science	<u>4</u>	MATH 0300 or placement above
_____	ESCI 3351	Oceanography	<u>3</u>	CHEM 1412 or ESCI 1401 or GEOL 1403
_____	GEOL 1403	Physical Geology	<u>4</u>	
_____	GEOL 4444	Hydrogeology FL	<u>4</u>	GEOL 1403 + PHYS 1401 or 2425 + MATH 2413
_____	GISC 1470	Geospatial Systems I	<u>4</u>	
_____	MATH 2305	Discrete Mathematics I	<u>3</u>	MATH 1314 + 1316 or MATH 2312 or above
_____	MATH 4315	Partial Differential Equations	<u>3</u>	MATH 3315 + MATH 3470
_____	PHYS 1304	Intro to Astronomy: Solar Systems SP	<u>3</u>	

~Additional hours may be required to meet the minimum 120 hours for your degree~

### UNIVERSITY REQUIREMENTS:

Minimum Total Hours for Degree:	120	College Minimum Major GPA:	2.25
Upper Division Minimum Total Hours:	45	Cumulative TAMUCC Minimum GPA:	2.00
Upper Division Minimum Residency Hours:	36	Foreign Language Requirement (see catalog)	
Upper Division Minimum Major Residency Hours:	12	First Year Seminar Requirement (UCCP 1101 & 1102)	