Texas A & M University-Corpus Christi

Curriculum Sheet for 2020-2021 Catalog

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

			HOURS	PREREQUISITES
UNIVERSITY CORE CURRICULUM:				
	COMM 1311	Foundations of Communications	3	or ENGL 1301
	ENGL 1302	Writing and Rhetoric	3	
	See Catalog	Mathematics	3	
	See Catalog	Life and Physical Sciences	6	
	See Catalog	Language, Philosophy, or Culture	3	
	See Catalog	Creative Arts	3	
	HIST 1301	US History to 1865	3	
	HIST 1302	US History since 1865	3	or HIST 2301
	POLS 2305	US Government and Politics	3	
	POLS 2306	State and Local Government	3	
	See Catalog	Social and Behavioral Science	3	
	See Catalog	Component Area	6	
SUPPORTING COURSES - 12 hours				
	MATH 2413	Calculus I	4	MATH 1314 + 1316 or MATH 2312 or above
	PHYS 2425	University Physics I	4	MATH 2413
	PHYS 2426	University Physics II	4	MATH 2414
MAJOR REQUIREMENTS - 60 hours				
	ATSC 2403	Introduction to Meteorology FL,SP	4	
	ATSC 2301	Weather Observations SP	3	ATSC 2403 or ESCI 3403
	ATSC 3306	Atmospheric Thermodynamics	3	ATSC 2403 + PHYS 2425
	ATSC 3305	Physical Meteorology FL	3	ATSC 2403 + PHYS 2426
	ATSC 3401	Synoptic Meteorology	4	ATSC 3306
	ATSC 3402	Mesoscale Meteorology	4	ATSC 3306
	ATSC 4301	Dynamic Meteorology I	3	ATSC 3306 + MATH 2414
	ATSC 4305	Remote Sensing	3	PHYS 2426
	ATSC 4335	Climate and Climate Variability SP	3	ATSC 2403 or ESCI 3351 or 3403
	CHEM 1411	General Chemistry I	4	MATH 1314 placement or above
	COSC 1330	Programming for Scientists, Engineers, & Mathmeticians	3	
	ESCI 4360	Physical Oceanography FL	3	PHYS 1401 or PHYS 2425
	MATH 2414	Calculus II	4	MATH 2413
	MATH 2415	Calculus III	4	MATH 2414
	MATH 3311	Linear Algebra	3	MATH 2413
	MATH 3315	Differential Equations	3	MATH 2414
	MATH 3345	Statistical Modeling and Data Analysis	3	MATH 2414 + COSC 1330 or 1435
GENERAL ATMOSPHERIC SCIENCE TRACK - 18 hours (min 7 hours upper level)				
	ATSC 4496	Directed Independent Study	1-4	Approval from Chair and Dean
	ATSC 4498	Internship in Atmospheric Science	1-4	
	ATSC 4590	Selected Topics	1-5	Varies
	ATSC 4302	Dynamic Meteorology II	3	ATSC 4301
	CHEM 1412	General Chemistry II	4	CHEM 1411
	CHEM 3411	Organic Chemistry I	4	CHEM 1411
	ESCI 1401	Intro to Environmental Science	4	MATH 0300 or placement above
	ESCI 3351	Oceanography	3	CHEM 1412 or ESCI 1401 or GEOL 1403
	GEOL 1403	Physical Geology	4	
	GEOL 4444	Hydrogeology FL	4	GEOL 1403 + PHYS 1401 or 2425 + MATH 2413
	GISC 1301	Physical Geography	3	
	GISC 1470	Geospatial Systems I	4	
	MATH 2305	Discrete Mathematics I	3	MATH 1314 + 1316 or MATH 2312 or above
	MATH 4315	Partial Differential Equations	3	MATH 3315 + MATH 3470
	PHYS 1304	Intro to Astronomy: Solar Systems SP	3	

~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 (UNIV 1101 & 1102)	