

Texas A&M University-Corpus Christi

Curriculum Sheet for 2019 Catalog

This Curriculum expires after 6 years

Degree: **Bachelor of Science**
Major: **Physics**

COMMON UNIVERSITY CORE CURRICULUM

		SCH	PREREQUISITES
_____	COMM 1311	Foundations of Communication	3
_____	ENGL 1302	Writing and Rhetoric	3
_____	See Catalog	Language, Philosophy & Culture	3
_____	HIST 1301	US History I	3
_____	HIST 1302	US History II	3
_____	POLS 2305	US GOVT	3
_____	POLS 2306	TX GOVT	3
_____	See Catalog	Creative Arts	3
_____	See Catalog	Social Science	3

UNIVERSITY CORE CURRICULUM Specific to this major (SEE NOTE BELOW)

_____	MATH 2413	Calculus I	(-3)	Math 1314+1316 or Math 2312 or beyond
_____	PHYS 2425	UNIVERSITY PHYSICS I	(-3)	Math 2413
_____	PHYS 2426	UNIVERSITY PHYSICS II	(-3)	Math 2414
_____	CAO OPTION I	Labs from MATH 2413, PHYS 2425, PHYS 2426	(-3)	
_____	CAO OPTION II	MATH 2414	(-3)	Math 2413

NOTE: Taking core curriculum classes other than those listed in the major specific university core classes section above will result in you taking additional courses that may not be required to complete your degree. Please consult your major academic advisor for more details.

PHYSICS SUPPORTING COURSES 19 HOURS

_____	COSC 1435	PROBLEM SOLVING I	4	Math 1314 or beyond
_____	MATH 2413	CALCULUS I	4	Math 1314+1316 or Math 2312 or beyond
_____	MATH 2414	CALCULUS II	4	Math 2413
_____	*MATH 3315	DIFF EQUATIONS	3	Math 2414
_____	MATH 2415	CALCULUS III	4	Math 2414

PHYSICS MAJOR 34 HOURS

_____	PHYS 2425	UNIVERSITY PHYSICS I	4	Math 2413
_____	PHYS 2426	UNIVERSITY PHYSICS II	4	Math 2414
_____	*PHYS 3331	MECHANICS I	3	PHYS 2426, Co-requisite MATH 3315
_____	*PHYS 3332	ELECTROMAGNETISM	3	PHYS 2426, Co-req MATH 3315 or MATH 2415
_____	*PHYS 3333	THERMODYNAMICS	3	PHYS 2426, Co-requisite MATH 2415
_____	*PHYS 3334	MODERN PHYSICS I	3	PHYS 2426, Corequisite MATH 3315
_____	*PHYS 4161	PHYSICS RESEARCH PROJECT	1	PHYS 3334
_____	*PHYS 4162	PHYSICS RESEARCH SEMINAR	1	PHYS 4161
_____	*PHYS 4330	MATH METHODS FOR PHYSICISTS	3	Co-requisite MATH 3315
_____	*PHYS 4335	QUANTUM PHYSICS	3	PHYS 3334, co-req MATH 3315 or MATH 2415
_____	*PHYS 4337	NUCLEAR PHYSICS	3	PHYS 3334, co-req MATH 3315 or MATH 2415
_____				Co-requisite cont PHYS 4335
_____	*PHYS 4340	PHYSICS ADVANCED LAB	3	PHYS 3334

ADVANCED PHYSICS ELECTIVES 6 HOURS

_____ Must be 2 upper levels physics courses chosen from available consortium offerings.
_____ Offerings available for viewing at: (www.tarleton.edu/tpc/)

SUPPORT FIELD 18 HOURS

_____ These courses must be chosen in conjunction with assigned
_____ physics faculty mentor. See University catalog for more information
_____ Support field can be chosen from: COSC 1436; ENGR 3315; ESCI 3351, 4335, 4360; MATH 3311; MEEN 3345

General Electives

_____ Most may need to be upper division
_____ This will depend on level of support field courses
_____ and transfer classes (est UD need = 12 hours)

University Requirements

_____	Minimum Total Hours for degree:	120	Foreign Language Requirement (see catalog)	
_____	*Upper Division minimum total hours: 31-34 on plan before minor	45	Cumulative TAMU-CC minimum GPA:	2.00
_____	*Upper Division minimum residency hours:	36	Minimum Major GPA:	2.25
_____	*Upper Division minimum major residency hrs:	12	First Year Seminar: UCCP 1101 & 1102	2