SUGGESTED FOUR-YEAR SCHEDULE: 2019-20

B.S. in Physics - Secondary Certification -



First Year Fall Semester		First Year Spring Semester	
*ENG 1301, College Reading & Writing	3	*ENG 1302, Written Argument/Research	3
*HIST 1301, US History to 1877	3	*HIST 1302, US History from 1865	3
*MATH 2413, Calculus I	4	*Component Area	3
*PHYS 2425, University Physics I	4	*MATH 2414, Calculus II	4
PHYS 101, Physics & ASTR Seminar	1	*PHYS 2426, University Physics II	4
Total Hours	15	Total Hours	17
Second Year Fall Semester		Second Year Spring Semester	
*PSCI 2305, US Government & Politics	3	*PSCI 2306, TX Government & Politics	3
MATH 2415, Calculus III	4	PSY 300, Learning Processes & Development	3
CHEM 1311, Gen & Quant Chemistry I	3	CHEM 1312, Gen & Quant Chemistry I	3
CHEM 1111, Gen & Quant Chemistry I Lab	1	CHEM 1112, Gen & Quant Chemistry I Lab	1
PHYS 317, Math Methods for PHYS & ENGR	3	PHYS 321, Modern Physics	3
PHYS 333, Wave Motion, Acoustics & Optics	4	PHYS 345, Teaching & Learning Physics	3
Total Hours	18	Total Hours	16
Third Year Fall Semester		Third Year Spring Semester	
*Literature, Philosophy, & Culture	3	*Social & Behavioral Science	3
SED 330, Roles of STEM Educators	3	RDG 380, Compr & Vocb in MLED/HS	3
CHEM 2323, Organic Chemistry I	3	SED 331, Instructional Design in STEM	3
CHEM 2123, Organic Chemistry I Lab	1	PHYS 371, Sci & Math Educ Theory & Pract	1
**PHYS 335, Advanced Physics Lab	3	or PHYS 401, Current Topics	
or PHYS 319, Computational Physics		**PHYS 412, Electricity & Magnetism	3
**PHYS 411, Classical Mechanics	3	, c	
Total Hours	16	Total Hours	13
Fourth Year Fall Semester		Fourth Year Spring Semester	
*Creative Arts	3	Student Teaching	
SED 332, Project Based Learning in STEM	3	SED 400, Pedagogy & Classroom Mgt	3
PHYS 371, Sci & Math Educ Theory & Pract	1	SED 401, Technology Infused Curriculum	3
or PHYS 401, Current Topics		SED 404, Secondary Teaching Practicum	3
**PHYS 420, Quantum Mechanics	3	SED 405, Secondary Residency in Teaching	6
Advanced Physics Elective	4		
Total Hours	14	Total Hours	15

^{*} This course should be used to satisfy the Core Curriculum Requirements

The suggested plan shown is subject to change. Please check the current Undergraduate Catalog (catalog.tamuc.edu) for required courses in your program.

^{**}IMPORTANT: Courses marked with a double asterisk (**) are generally only taught on an every-other-year basis. Take when able and offered. If you are not able to take Calculus I & Physics I until your second semester, you should take Gen & Quant Chem I during your first semester