

# SUGGESTED FOUR-YEAR SCHEDULE: 2018-19

## — B.S. in Physics - Secondary Certification —



COLLEGE OF  
**Science and  
Engineering**  
A&M-COMMERCE

### First Year Fall Semester

*ENG 1301, College Reading & Writing	3
*Component Area (Signature Course)	3
PHYS 101, Physics & ASTR Seminar	1
*PHYS 2425, University Physics I	4
*MATH 2413, Calculus I	4

**Total Hours 15**

### First Year Spring Semester

*ENG 1302, Written Argument/Research	3
*HIST 1301, US History to 1877	3
PHYS 371, Sci & Math Educ Theory & Pract or PHYS 401, Current Topics	1
*PHYS 2426, University Physics II	4
*MATH 2414, Calculus II	4

**Total Hours 15**

### Second Year Fall Semester

*PSCI 2301, Princ of US & TX Govt	3
*HIST 1302, US History from 1865	3
PHYS 371, Sci & Math Educ Theory & Pract or PHYS 401, Current Topics	1
PHYS 333, Wave Motion, Acoustics, and Opt	4
MATH 2415, Calculus III	4

**Total Hours 15**

### Second Year Spring Semester

*PSCI 2302, US/TX Govt; Insts & Pols	3
*Creative Arts	3
CHEM 1311, Gen & Quant Chemistry I	3
CHEM 1111, Gen & Quant Chemistry I Lab	1
PHYS 321, Modern Physics	3

**Total Hours 13**

### Third Year Fall Semester

CHEM 1312, Gen & Quant Chemistry I	3
CHEM 1112, Gen & Quant Chemistry I Lab	1
PHYS 317, Math Methods for PHYS & ENGR	3
PHYS 411**, Classical Mechanics	3
Physics Elective	4
RDG 380, Comprehension & Vocabulary	3

**Total Hours 17**

### Third Year Spring Semester

CHEM 2323, Organic Chemistry I	3
CHEM 2123, Organic Chemistry I Lab	1
PHYS 345**, Teaching & Lrng Physics	3
PHYS 412**, Electricity & Magnetism	3
SED 330, Roles & Responsibilities	3
PSY 300, Learning Processes & Development	3

**Total Hours 16**

### Fourth Year Fall Semester

*Literature, Philosophy, & Culture	3
PHYS 420**, Quantum Mechanics	3
SED 331, Instructional Design	3
SED 332, Project Based Learning	3
SED 404, Secondary Teaching Practicum	3

**Total Hours 15**

### Fourth Year Spring Semester

Student Teaching	
*Social & Behavioral Science	3
SED 400, Pedagogy & Classroom Mgt	3
SED 401, Technology Infused Curriculum	3
SED 405, Secondary Residency in Teaching	6

**Total Hours 15**

**Degree Total 123**

\* This course should be used to satisfy the Core Curriculum Requirements

\*\*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

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