

# SUGGESTED FOUR-YEAR SCHEDULE: 2019-20

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



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

### First Year Fall Semester

*ENG 1301, College Reading & Writing	3
*MATH 2413, Calculus I	4
*Component Area	3
*CHEM 1311, Gen & Quant Chemistry I	3
CHEM 1111, Gen & Quant Chemistry I Lab	1
CHEM 101, Gen & Quant Chemistry I Tutorial	1
PHYS 2425, University Physics I	4
<b>Total Hours</b>	<b>19</b>

### First Year Spring Semester

*ENG 1302, Written Argument/Research	3
*MATH 2414, Calculus II	4
*CHEM 1312, Gen & Quant Chemistry II	3
CHEM 1112, Gen & Quant Chemistry II Lab	1
CHEM 102, Gen & Quant Chemistry II Tutorial	1
PHYS 2426, University Physics II	4
<b>Total Hours</b>	<b>16</b>

### Second Year Fall Semester

*HIST 1301, US History to 1877	3
*Language, Philosophy, & Culture	3
CHEM 2323, Organic Chemistry I	3
CHEM 201, Organic Chemistry I Tutorial	1
CHEM 2123, Organic Chemistry I Lab	1
BSC 1406 & 1406L, Introductory Biology I	4
<b>Total Hours</b>	<b>15</b>

### Second Year Spring Semester

*HIST 1302, US History from 1865	3
*Creative Arts	3
PHYS 321, Modern Physics or PHYS 333, Wave Motion, Acoustics & Optics	3
PSY 300, Lrng Processes & Develop	3
BSC 1407 & 1407L, Introductory Biology II	4
<b>Total Hours</b>	<b>16</b>

### Third Year Fall Semester

CHEM 418, Undergraduate Research	1
CHEM 341, Advanced Chemistry I	3
CHEM 421, Chemistry Lab Design I	4
BSC 303 & 303L, Cell Biology	4
SED 330, Roles & Responsibilities	3
<b>Total Hours</b>	<b>15</b>

### Third Year Spring Semester

*PSCI 2305, US Government & Politics	3
CHEM 342, Advanced Chemistry II	3
CHEM 422, Chemistry Lab Design II	4
PHYS 335, Advanced Physics Lab or BSC 304, GLB/Genetics	3
SED 331, Instructional Design	3
<b>Total Hours</b>	<b>16</b>

### Fourth Year Fall Semester

*PSCI 2306, TX Government & Politics	3
*Social & Behavioral Science Elective	3
CHEM 401, GLB/Chemical Sci & Profession	1
SED 332, Project Based Learning in STEM	3
RDG 380, Compr & Vocab in MLED/HS	3
<b>Total Hours</b>	<b>13</b>

### Fourth Year Spring Semester

Student Teaching	
SED 400, Pedagogy & Classrm Manage	3
SED 401, Tech Infused Curriculum & Assessm	3
SED 404, Secondary Teaching Practicum	3
SED 405, Secondary Residency in Teaching	3
<b>Total Hours</b>	<b>12</b>

**Degree Total 122**

\*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](http://catalog.tamuc.edu)) for required courses in your program.**