Degree: Bachelor of Science  
Major: Mathematics  
Emphasis: Applied Mathematics

### UNIVERSITY CORE CURRICULUM (Common across majors)
- COMM 1311: Foundations of Communication  
- ENGL 1302: Writing and Rhetoric  
- See Catalog: Language, Philosophy & Culture  
- HIST 1301: US History I  
- HIST 1302: US History II  
- POLS 2305: US GOVT  
- POLS 2306: TX GOVT  
- See Catalog: Creative Arts  
- See Catalog: Social Science  

<table>
<thead>
<tr>
<th>Course</th>
<th>SCH</th>
<th>PREREQUISITES</th>
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<tbody>
<tr>
<td>COMM 1311</td>
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<tr>
<td>ENGL 1302</td>
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<tr>
<td>HIST 1301</td>
<td>3</td>
<td>n/a</td>
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<tr>
<td>HIST 1302</td>
<td>3</td>
<td>n/a  &quot;may take HIST 3331 for one history course&quot;</td>
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<tr>
<td>POLS 2305</td>
<td>3</td>
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<tr>
<td>POLS 2306</td>
<td>3</td>
<td>n/a</td>
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<tr>
<td>CAO Option 1</td>
<td></td>
<td>labs from PHYS 2425,2426, and MATH 2413</td>
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<tr>
<td>CAO Option 2</td>
<td></td>
<td>MATH 2414</td>
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</tbody>
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### UNIVERSITY CORE CURRICULUM Specific to this major (SEE NOTE BELOW)
- MATH 2413: Calculus I  
- PHYS 2425: UNIVERSITY PHYSICS I  
- PHYS 2426: UNIVERSITY PHYSICS II  
- CAO Option 1: Labs from PHYS 2425,2426, and MATH 2413  
- CAO Option 2: MATH 2414

### SUPPORTING COURSES
- PHYS 2425: UNIVERSITY PHYSICS I Can also count in core  
- PHYS 2426: UNIVERSITY PHYSICS II Can also count in core

### MATHEMATICS CORE
- MATH 2305: DISCRETE MATH I  
- MATH 2413: CALCULUS I Can also count in core  
- MATH 2414: CALCULUS II Can also count in core  
- MATH 2415: CALCULUS III  
- MATH 3311: LINEAR ALGEBRA  
- MATH 3313: FNDTN NUMBER THEORY (FL)  
- COSC 1330: Programming for Scientists, Engineers & Mathematicians  

### APPLIED/INDUSTRIAL MATHEMATICS TRACK CORE (12)
- MATH 3314: FOUNDATIONS OF REAL NUMBERS (SP)  
- *MATH 3315: DIFF EQUATIONS  
- *MATH 3345: STATISTICAL MODELING AND DATA ANALYSIS  
- *COSC 3385: NUMERICAL METHODS

### MATHEMATICS ADVANCED SEQUENCE (6 hours)
Choose 2 courses from the Following:
- MATH 4315: PARTIAL DIFFERENTIAL EQUATIONS  
- MATH 4342: INTRO TO MATHEMATICAL STATISTICS  
- *MATH 4385: APPL MODELING (SP)

### UPPER MATH ELECTIVES (6 SCH)

### MINOR (18-23 sch)

### FREE ELECTIVES TO REACH UNIVERSITY MINIMUM REQUIREMENTS (12-19 SCH)
- 9 SCH UD electives
- 3-10 SCH any level elective (UCCP included here)

### University Requirements
- Minimum Total Hours for degree: 120
- *Upper Division minimum total hours: 36 on plan W/ minor(6UD)  
- *Upper Division minimum residency hours: 36
- *Upper Division minimum major residency hrs: 12
- Cumulative TAMU-CC minimum g.p.a.: 2
- Foreign Language Requirement: See catalog

Minimum Major grade point average (g.p.a.): 45
First Year Seminar Requirement: UCCP 1101/1102 2

NOTE: Taking core curriculum classes other that 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.