## BACHELOR OF ARTS WITH A MAJOR IN MATHEMATICS (BA)

## Degree Requirements Hours Required

A minimum of 120 semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "Requirements for Graduation (https://catalog.tamiu.edu/undergraduate-information/academicregulations/)" section of this catalog.

## Requirements



Select 12 SCH , at the 3000-4000 level, selected from arts, economics,
humanities, natural sciences and social sciences. Courses must be outside the major and minor unless seeking a double major
General Electives
Select 4 SCH 4

Total Semester Credit Hours

* BA/MA OPTION: See Combined BA/MA Programs in this section


## Four-Year Degree Plan

Following is a suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment; responsible for reviewing the Program of Study Requirements, meeting all course prerequisites, and writing intensive course (WIN) requirements for graduation. See Academic Regulations-Undergraduate online. (https:// catalog.tamiu.edu/undergraduate-information/academic-regulations/)

Freshman

| Fall | Semester <br> Credit Hours |  |
| :--- | :--- | ---: |
| ENGL 1301 | English Composition I | 3 |
| HIST 1301 | The US to 1877 | 3 |
| MATH 2413 | Calculus I | 4 |
| UNIV 1201 | Learn a Global Context I | 2 |
| Life \& Physical Science | 3 |  |
| Life \& Physical Science Lab | $\mathbf{1}$ |  |
|  | Semester Credit Hours | $\mathbf{1 6}$ |
| Spring |  |  |
| ENGL 1302 | English Composition II | 3 |
| HIST 1302 | The US Since 1877 | 3 |
| MATH 2414 | Calculus II | 4 |
| CSCE 1336 | Fundamentals of Programming | 3 |
| CSCE 1136 | Funds of Programming Lab | 1 |
| UNIV 1302 | Signature Course | 3 |
|  | Semester Credit Hours | $\mathbf{1 7}$ |

## Sophomore

Fall
PSCI 2305 American National Government 3
MATH 2415 Calculus III 4
MATH 3365 Discrete Mathematics 3
Language, Philosophy \& Culture 3
Life \& Physical Science 3

| Life \& Physical Science Lab | 1 |
| :--- | :--- |

Semester Credit Hours 1

| Semester Credit Hours | 17 |
| :--- | :--- |


| Spring |  |  |
| :--- | :--- | ---: |
| PSCI 2306 | American State Government | 3 |
| MATH 3310 | Introduction to Linear Algebra | 3 |
| MATH 3360 | Statistical Analysis | 3 |
| Foreign Lang/Study Abroad | 3 |  |
| Creative Arts |  | 3 |
|  | Semester Credit Hours | $\mathbf{1 5}$ |

TEXAS A\&M INTERNATIONAL UNIVERSITY

| Junior |  |  |
| :---: | :---: | :---: |
| Fall |  |  |
| MATH 3330 | Ordinary Diff Equations | 3 |
| MATH 3371 | Communications in Mathematics | 3 |
| MATH 4335 | Advanced Calculus | 3 |
| Social/Behavioral Science |  | 3 |
| Foreign Lang/Study Abroad |  | 3 |
|  | Semester Credit Hours | 15 |
| Spring |  |  |
| MATH 4310 | Abstract Algebra I | 3 |
| Advanced Elective |  | 3 |
| Advanced Elective |  | 3 |
| Minor/General Elective |  | 3 |
| Minor/General Elective |  | 3 |
| Semester Credit Hours |  | 15 |
| Senior |  |  |
| Fall |  |  |
| General Elective |  | 4 |
| Advanced Elective |  | 3 |
| Advanced Minor/General Elective |  | 3 |
| Advanced Minor/General Elective |  | 3 |
| Semester Credit Hours |  | 13 |
| Spring |  |  |
| MATH 4345 | Complex Variables | 3 |
| Advanced Elective |  | 3 |
| Advanced Minor/General Elective |  | 3 |
| Advanced Minor/General Elective |  | 3 |
|  | Semester Credit Hours | 12 |
|  | Total Semester Credit Hours | 120 |

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed.

