## BACHELOR OF ARTS, MAJOR IN MATHEMATICS



[^0]The following courses can only be used as required advanced electives by students who are seeking elementary/middle school teacher certification:

| Code | Title |  |
| :--- | :--- | :--- |
| Required Advanced Electives: Elementary/Middle School Teacher Certification |  |  |
| MATH 3380 | Historical Perspec of Math |  |
| MATH 3381 | Intro - Foundation of Math III | 3 |
| MATH 3383 | Geometric Meas./Transformation | 3 |
| MATH 3384 | Foundations of Mathematics | 3 |
| MATH 3386 | Fundmtls of Probability/Stats | 3 |
| MATH 3387 | Problem Solving-Middle Sch Mth | 3 |

The following courses can only be used as required advanced electives by students who are seeking secondary teacher certification:

| Code | Title |  |
| :--- | :---: | :---: |
| Required Advanced Electives: Secondary Teacher Certification |  |  |
| MATH 4384 | Survey of Mathematical Ideas |  |
| MATH 4385 | Mathematical Problem Solving | 3 |

## Notes

Students should use the minor and electives to complete the 42-advanced hour requirement for graduation.
A cumulative minimum major GA of 2.5 is required for students to graduate with a Bachelor of Science in Mathematics.
Anyone considering a degree in Mathematics should consult an advisor in the Department of Mathematics prior to registering for any courses. For more information, please, visit the Lee Drain Building, Room 420.

In order to satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science), except for the Department of Physics, the student must take classes from the following:

## Courses for Science Majors

| Code | Title | Hours |
| :--- | :--- | :--- |
| Course Requirements |  | 4 |
| BIOL 1411 | General Botany | 4 |
| BIOL 1413 | General Zoology | 4 |
| BIOL 2401 | Human Anatomy | 4 |
| CHEM 1411 | General Chemistry I | 4 |
| CHEM 1412 | General Chemistry II | 4 |

Any lab course from Geology or Geography
First Year

| Fall | Hours | Spring | Hours |  |
| :---: | :---: | :---: | :---: | :---: |
| Component Area III (Science Course for Science Major) |  | 4 ENGL 1302 ${ }^{1}$ |  | 3 |
| ENGL 1301 ${ }^{1}$ |  | 3 HIST $1302{ }^{2}$ |  | 3 |
| HIST 1301 ${ }^{2}$ |  | 3 MATH 1430 |  | 4 |
| MATH $1420{ }^{3}$ |  | 4 PHYS 1411 or $1422{ }^{4}$ |  | 4 |
|  |  | 14 |  | 14 |
| Second Year |  |  |  |  |
| Fall | Hours | Spring | Hours |  |
| MATH 2440 |  | 4 MATH 3377 |  | 3 |
| MATH 3300 |  | 3 Minor Course |  | 3 |
| POLS $2305{ }^{5}$ |  | 3 PHIL $2303{ }^{6}$ |  | 3 |
| WOLC 1411 |  | 4 POLS $2306{ }^{5}$ |  | 3 |
|  |  | WOLC 1412 |  | 4 |
|  |  | 14 |  | 16 |

## Third Year

Fall Hours

| MATH 4361 |  | 3 MATH 4366 | 3 |
| :---: | :---: | :---: | :---: |
| MATH 4371 |  | 3 MATH Advanced Elective ${ }^{10}$ | 3 |
| Minor Course (Advanced) ${ }^{8}$ |  | 3 Minor Course | 3 |
| WOLC $2311^{9}$ |  | 3 WOLC 2312 |  |
|  | 15 |  | 16 |
| Fourth Year |  |  |  |
| Fall | Hours | Spring | Hours |
| Component Area V (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/ \#componentareav) |  | 3 MATH Advanced Elective ${ }^{10}$ | 3 |
| MATH Advanced Elective ${ }^{10}$ |  | 3 MATH Advanced Elective ${ }^{10}$ | 3 |
| MATH 4377 |  | 3 Advanced Minor Course | 3 |
| Advanced Elective |  | 3 Minor Course | 3 |
| Minor Course |  | 3 Advanced Elective | 3 |
|  |  | Elective | 1 |
|  |  | 15 | 16 |

## Total Hours: 120

1 Satisfies Core Curriculum requirement for Component Area I (Communications).
2 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Core Curriculum requirement for Component Area IX (Component Area Option).
Satisfies 4 hours of Core Curriculum requirement for Component Area III (Life and Physical Sciences).
Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
Satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
Satisfies Core Curriculum requirement for Component Area IX (Component Area Option).
Students should use the minor and advanced general electives to complete the 42-advanced hour requirement for graduation.
Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
Advanced MATH electives do not include MATH 3379/STAT 3379.

## Notes

Students should use the minor and electives to complete the 42-advanced hour requirement for graduation.

A cumulative minimum major GA of 2.5 is required for students to graduate with a Bachelor of Science in Mathematics.

Anyone considering a degree in Mathematics should consult an advisor in the Department of Mathematics prior to registering for any courses. For more information, please, visit the Lee Drain Building, Room 420.

The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's 60x30TX plan and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BA in Mathematics is designed to provide graduates with the following marketable skills:

- Ability to apply appropriate mathematical methods to data and problem solving.
- Ability to learn, synthesize and explain sophisticated information.
- Proficiency in scientific computing environments, databases and programming languages, such as Matlab, Mathematica, SageMath, Excal, Java and Python


[^0]:    1 ENGL 2332 satisfies three semester credit hours of the Core Curriculum requirement for Component Area IX (Component Area Option).
    2 PHIL 2303 satisfies Core Curriculum requirement for Component Area VIII (Social and Behavioral Sciences).
    3 PHYS 1411 or PHYS 1422 satisfies 4 hours of Core Curriculum requirement for Component Area III (Life and Physical Sciences)
    4 WOLC 2311 satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).
    5 MATH 1420 satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).
    $6 \quad$ Advanced MATH electives do not include MATH 3379/STAT 3379.

