## BACHELOR OF SCIENCE, MAJOR IN MATHEMATICS



| Code | Title |  |
| :--- | :--- | :--- |
| Advanced Electives for Elemntrary/Middle School Teacher Certification |  |  |
| MATH 3380 | Historical Perspec of Math | 3 |
| 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 |  |
| :--- | :---: | :---: |
| Advanced Electives for 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 Physcial Science), except in the Department of Physics, the student must take 8 semester credit hours of classes from the following:

| Code | Title |
| :--- | :--- |
| Required Courses |  |
| BIOL 1411 | General Botany |
| \& BIOL 1413 | and General Zoology |
| or CHEM 1411 | General Chemistry I |
| \& CHEM 1412 | and General Chemistry II |

Any two lab courses from Geology or Geography
First Year


| Third Year |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Fall | Hours | Spring | Hours |  |
| COSC 1436 |  | 4 Component Area V (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/ \#componentareav) |  | 3 |
| Elective |  | 1 ENGL 2332 or $2333{ }^{6}$ |  | 3 |
| MATH 4361 |  | 3 MATH 4366 |  | 3 |
| MATH 4371 |  | 3 MATH Advanced Elective |  | 3 |
| Minor Course |  | 3 Minor Course |  | 3 |
|  |  | 14 |  | 15 |
| Fourth Year |  |  |  |  |
| Fall | Hours | Spring | Hours |  |
| Component Area VIII (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/ \#componentareaviii) |  | 3 Elective |  | 3 |
| Elective |  | 3 MATH Advanced Elective |  | 3 |
| MATH 4377 |  | 3 MATH Advanced Elective |  | 3 |
| MATH Advanced Elective |  | 3 Minor Advanced Course |  | 3 |
| Minor Advanced Course |  | 3 Minor Advamced Course |  | 3 |
|  |  | 15 |  | 15 |

Total Hours: 120
$1 \quad$ Science Course for Science Majors: BIOL 1411 and BIOL 1413 or CHEM 1411 and CHEM 1412.
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
4 Satisfies Core Curriculum requirement for Component Area II (Mathematics) and one semester credit hour of Component Area IX (Component Area Option).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science/Government).
$6 \quad$ Satisfies Core Curriculum requirement for Component Area IV (Language, Philosophy, and Culture).

## Notes

Advanced MATH electives do not include MATH 3379 (http://catalog.shsu.edu/archives/2020-2021/search/?P=MATH\ 3379)/STAT 3379 (http:// catalog.shsu.edu/archives/2020-2021/search/?P=STAT\ 3379), MATH 3363 (http://catalog.shsu.edu/archives/2020-2021/search/?P=MATH \%203363), MATH 338x, MATH 4367 (http://catalog.shsu.edu/archives/2020-2021/search/?P=MATH\ 4367), and MATH 438x.

Minor includes at least 9 hours of advanced coursework.
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.

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

- Learn, synthesize, and explain sophisticated information.
- Simplify complex problems by generating hypotheses and recognizing fundamental principles.
- Apply logic and quantitative reasoning to solve problems in science and technology.
- Perform proficiently in scientific computing environments, databases and programming languages such as Matlab, Mathematica, SageMath, Excel, Java, and Python.

