

**Bachelor of Science in Mathematics – Applied Math option
Sample Degree Plan**

<p style="text-align: center;"><u>Fall Semester, First Year (15 SCH)</u></p> <p>RHET 1101 Oral Communication MATH 2417 Calculus I RHET 1302 Rhetoric/ Composition II HIST 1301 Themes and Ideas in American History CS 1336 Computer Science I CS 1136 Computer Science Lab</p>	<p style="text-align: center;"><u>Spring Semester, First Year (15 SCH)</u></p> <p>MATH 2419 Calculus II PHYS 2325 Mechanics and Heat PHYS 2125 Physics Lab HIST 1302 Issues in American History ARTS 1301 Exploration of the Arts 1 hour approved science core</p>
<p style="text-align: center;"><u>Fall Semester, Second Year (15 SCH)</u></p> <p>PHYS 2326 Electromagnetism and Waves PHYS 2126 Physics Lab II GOVT 2302 Political Economy of Texas Government MATH 2451 Multivariable Calculus MATH 2420 Differential Equations</p>	<p style="text-align: center;"><u>Spring Semester, Second Year (16 SCH)</u></p> <p>MATH 3310 Theoretical Concepts of Calculus MATH 2418 Linear Algebra GOVT 2301 American Government HUMA 1301 Humanities Free Elective (3 SCH)</p>
<p style="text-align: center;"><u>Fall Semester, Third Year (15 SCH)</u></p> <p>MATH 3311 Abstract Algebra I MATH 4301 Math Analysis I STAT 4351 Probability Social Behavioral Science Elective (3 SCH) Free elective (3 SCH)</p>	<p style="text-align: center;"><u>Spring Semester, Third Year (15 SCH)</u></p> <p>MATH 3379 Complex Variables MATH 4302 Math Analysis II MATH 4362 Partial Differential Equations Advanced Elective (Non- Math, 3 SCH) Free Elective (3 SCH)</p>
<p style="text-align: center;"><u>Fall Semester, Fourth Year (15 SCH)</u></p> <p>MATH 4382 Stochastic Process MATH 4334 Numerical Analysis MATH 4341 Topology MATH 4355 Methods of Applied Mathematics Advanced Elective (Non- Math, 3 SCH)</p>	<p style="text-align: center;"><u>Spring Semester, Fourth Year (14 SCH)</u></p> <p>NATS 4310 Advanced Writing (or thesis) Free Elective (11 SCH)</p>

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| <ul style="list-style-type: none"> • need enough upper level electives to have a total of 51 upper level hours overall • Always check with your advisor to verify that you are on track to graduate on time |
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