

# Mathematics | Bachelor's Degree

	FIRST YEAR	MIDDLE YEARS	LAST YEARS
<b>ADVANCE</b> your academic journey	<p>Explore tutoring and computer services offered through <a href="#">Math CATS</a> (Tutoring and more).</p> <p>Take advantage of COSE <a href="#">Virtual Express</a> advising.</p> <p>Adopt your <a href="#">University Seminar US1100</a> learning as key for first year success.</p> <p>Meet with your <a href="#">COSE Academic Advisor</a> to develop your academic plan.</p> <p>Explore majors with a <a href="#">MyMajors assessment</a>.</p>	<p>Schedule appointments with the COSE <a href="#">Advising Center</a> and follow registration instructions for course guidance.</p> <p>Visit <a href="#">Math CATS</a> regularly.</p> <p>Consult your academic advisor and learn about <a href="#">scholarship opportunities</a>.</p> <p>Explore <a href="#">Mathworks</a> programs and offerings, including undergraduate opportunities for involvement such as the <a href="#">Mathworks Fellows</a> program and more.</p> <p>Regularly check the <a href="#">curricula and flowchart</a> pre-requisites and co-requisites for courses may change over time.</p>	<p>Check your Degree Audit &amp; meet with your academic advisor.</p> <p>Explore next steps including potential <a href="#">graduate programs</a>.</p> <p>Meet with a faculty mentor or peer advisor.</p> <p>Complement your degree with a <a href="#">micro credential</a> from Alkek One.</p> <p>Complete a capstone project related to major.</p> <p>Create and update a digital portfolio of academic work and experiences.</p>
<b>EXPAND</b> your personal and social development	<p>Begin expanding your student experience by joining a student organization through the <a href="#">Bobcat Organization HUB</a>.</p> <p>Review your degree plan for courses that include the <a href="#">Service-Learning Excellence</a> program.</p>	<p>Get involved with peers by joining the <a href="#">Math Club</a>, <a href="#">SIAM</a>, <a href="#">SUPER in Math</a>, <a href="#">Talk Math to Me</a> and <a href="#">Problem Solvers</a>. Despite the name, membership in <a href="#">Association for Women in Mathematics</a> is open to all.</p> <p>Learn about <a href="#">scholarship opportunities</a> for math students.</p> <p>Be sure to check out <a href="#">Pi Mu Epsilon</a>, the Honorary National Mathematics Society.</p> <p>Participate in <a href="#">Women in STEM initiatives</a> and the <a href="#">Hispanic and Latino STEM Mentoring Program (HLSAMP)</a>.</p> <p>Explore external scholarship opportunities such as the <a href="#">Fulbright</a> Scholarship to take your expertise to unique locations abroad.</p>	<p>Participate in the various seminars and events held by the <a href="#">Department of Mathematics</a>.</p> <p>Be sure to check out <a href="#">Pi Mu Epsilon</a>, the Honorary National Mathematics Society if you are not already a member.</p> <p>Attend financial literacy workshops (e.g., budgeting, student loans, taxes).</p> <p>Select a service activity through <a href="#">Student Involvement</a> to give back to the area community.</p>
<b>ENRICH</b> your practical competence	<p>Attend a talk for students through <a href="#">TalkMath2Me</a>.</p> <p>Explore the <a href="#">TXST One Stop</a> for more information about the scholarships provided to new and continuing students.</p> <p>Attend an <a href="#">IDEA Center</a> workshop to learn more about undergraduate research.</p> <p>Consider the <a href="#">STEM Communities Learning Assistance</a> program.</p>	<p>Share your knowledge with various employment opportunities, such becoming an <a href="#">Undergraduate Instructional Assistant</a>, <a href="#">a Math CATS tutor</a>, <a href="#">a Class Assistant</a>, <a href="#">a Paper Grader</a>, <a href="#">Peer Mentor</a> or <a href="#">Tutor at SLAC</a>.</p> <p>Explore the program <a href="#">Logic@TXST</a> designed to encourage research into mathematical logic at Texas State University or <a href="#">Talk Math 2 Me</a>, where students gain great experience communicating mathematics while developing presentation skills in a relaxed environment.</p> <p>Check out the <a href="#">National Science Foundation (NSF) Research Experiences for Undergraduates (REU) Summer Program</a>.</p>	<p>Explore <a href="#">Undergraduate Research Opportunities</a> to gain hands-on experience and build research skills alongside faculty mentors.</p> <p>Attend a conference related to your major (get recommendations from a faculty) or your student organization.</p> <p>Deliver a presentation in a student conference, workshop, seminar or community organization.</p> <p>Join a professional organization in your major or passion.</p> <p>Consider adding a skill from the <a href="#">TXST Coursera Career Academy</a>.</p>
<b>ELEVATE</b> your career and professional life	<p>Create your <a href="#">Handshake</a> profile.</p> <p>Develop and review your <a href="#">resume</a> with Career Services.</p> <p>Complete your <a href="#">Career Assessments</a>, such as Focus2.</p> <p>Create your <a href="#">LinkedIn</a> profile and connect with colleagues and leaders.</p>	<p>Build <a href="#">Career &amp; Graduate School Fairs</a> into your schedule to ensure your connection maximum opportunities.</p> <p>Join <a href="#">Employer Information Sessions</a> at Career Services or your department.</p> <p>Prepare to <a href="#">ace your job interviews with Career Services</a> or your academic department.</p>	<p>Develop a full-time employment or graduate school plan with <a href="#">Career Services</a> and the <a href="#">Graduate College</a>.</p> <p>Attend <a href="#">employer info sessions</a> at Career Services.</p> <p>Complete your <a href="#">First Destination Survey</a> to share your post-graduation plans.</p> <p>Identify faculty and professional references.</p>

**OUTCOMES**

## Marketable Skills

Think critically

Analyze and solve problems

Communicate clearly and effectively

Read with comprehension

Reason deductively

Reason inductively

[See more marketable skills for this major](#)

## Experiences in Mathematics

The bachelor's degree with major in mathematics addresses the foundations of advanced mathematics with the flexibility in selection of advanced program courses to tailor to student interests. The bachelor of arts curriculum requires courses in English literature together with a selection of minor and intermediate courses in modern languages. The bachelor of science is differentiated by an extensive selection of courses from the advanced level of mathematics along with a minimum English component. An optional double major with teacher certification grades seven through twelve is available. Internship and cooperative education programs are available, as well as options to engage in Education Abroad or Study in America for international or national cultural enrichment and membership in student organizations for networking with peers.

## Career Opportunities

Accountant

Actuary

Algorithm engineer

Budget analyst

Computer scientist

Cost estimator

Curriculum development

Data analyst

Database administrator

Economist

Electrical engineer

Financial analyst

Financial manager

Financial planner

Information research scientist

Insurance underwriter

Inventory manager

Investment analyst

Market research analyst

Math researcher

Mathematics teacher

Mechanical engineer

Meteorologist

Operations research analyst

Physicist

Post-secondary teacher

Purchasing agent

Purchasing specialist

Research analyst

Statistician

Survey researcher

Systems integration engineer

Tax consultant