EXPERIENTIAL MAJOR MAP

Data Science | Bachelor's Degree

TEXAS STATE UNIVERSITY

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

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OUTCOMES

Marketable Skills

Think critically

Analyze and solve problems

Communicate clearly and effectively

Ability to apply data principles to a variety of scenarios

Ability to work with cross-functional teams to integrate data solutions into business operations

Reason deductively

Reason inductively

See more marketable skills for this major

Career Opportunities

Business intelligence analyst
Data analyst
Database administrator
Information research scientist
Insurance underwriter
Inventory manager
Investment analyst
Market research analyst
Math researcher
Mathematics teacher
Operations research analyst
Post-secondary teacher
Purchasing agent
Purchasing specialist
Research analyst
Statistician
Survey researcher

Experiences in Data Science

The bachelor of science degree with major in data science addresses the ability to extract actionable insights from large, complex datasets. Students are trained to collect, clean, analyze, visualize and model data to solve real-world problems and support data-driven decision making. Selection of a minor is required. 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.