



College of Science

Department of Mathematics

Bachelor of Science in Mathematics - Industrial and Applied Math

EDUCATE

ENGAGE

EXCEL

Beginning the Journey

- Take UNIV-SC 1311-020, the Freshman student success course for math majors.
- Enroll in a calculus or similar course, depending on level of preparation.
- Become familiar with degree requirements for math majors.
- Review the different math degree options: Bachelor of Science in Mathematics with focus in Industrial and Applied Mathematics, Actuarial Science and Statistics, or UTEACH (secondary education).
- Collaborate with advisor/professor to draft a four-year plan of studies.

EDUCATE

Trailblazing the Path

- Take MATH 3330 as soon as prerequisites are met.
- Continue taking required courses.
- Gear up for success in the Big Three: MATH 3300, MATH 3307, MATH 3321.
- Explore avenues for participation in undergraduate research.

ENGAGE

- Learn about student chapters of mathematical professional organizations: Actuarial Science Club, American Mathematical Society Graduate Chapter, Association for Women in Mathematics, Mathematical Association of America, Mid-Cities Math Circle, Pi Mu Epsilon Chapter, Society for Industrial and Applied Mathematics, Society for the Advancement of Chicanos & Native Americans in Science.
- Get to know math professors and their areas of research.

EXCEL

- Join Honors College, if appropriate.
- Look for summer internships or REU programs.
- Consider a study abroad program.

- Present a poster at ACES.
- Give a talk at the Texas MAA annual meeting.
- Present a poster at the Joint MAA AMS meeting in January.
- Familiarize yourself with the latest relevant software.

Destination Graduation

- Complete degree requirements.
- Apply for graduation.
- Take GREs, if appropriate.
- Collaborate with Career Development Center; participate in job fairs.

EDUCATE

ENGAGE

- Put together resume highlighting all engagement activities.
- Apply and visit graduate schools, if appropriate.
- Visit local industries, Career Development Center.

EXCEL

- Apply for graduate school, if appropriate.
- Do an undergraduate or Honor thesis.
- Prepare a professional paper of your undergraduate research and submit to a journal.



MAVERICK ADVANTAGE

Be Bold. Be Ambitious. Set Yourself Apart.



CAREER DEVELOPMENT

- Internships
- Fellowships
- Assistantships
- Job Fairs
- Scholarships
- Peer Academic Leadership



GLOBAL ENGAGEMENT

- Global Grounds
- Global Mavericks Program
- International Week
- Language Exchange Program
- Study Abroad



LEADERSHIP DEVELOPMENT

- Mentorships
- Student Organizations
- Peer Education
- Volunteering
- Tutoring and Coaching
- Student Governance



COMMUNITY ENGAGEMENT

- Service Learning
- UTA Volunteers
- Camps for high school students



UNDERGRADUATE RESEARCH

- Undergraduate Research Assistantship
- Contact your professors for opportunities

FIND YOUR CAREER



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What career options do I have with this major?

- Actuary
- Financial Analyst
- Service Companies
- Banking - Commercial and Regional
- Financial Consultant
- Specialized Training Organizations
- Consulting Firms
- Financial Institutions
- Statistician
- Credit Unions
- Financial Planners
- Wholesale and Retail Trade Firms
- Cryptographer
- Government - Federal, State, Local
- Custom Software Builders
- Investment Analyst
- Data Scientist
- Market Research
- Economist
- Mathematician
- Educational Publishers
- Operations Research Analyst

Workforce Skills

- Creativity/Ingenuity: Synthesize existing ideas and concepts in innovative and creative ways to develop new ways of thinking or working and engage in divergent thinking and risk-taking.
- Critical Thinking: Analyze issues, make decisions, and overcome problems by using sound reasoning before forming a strategy, decision, or opinion.
- Teamwork/Collaboration: Work within a team and foster collaborative relationships with peers and supervisors. Use interpersonal skills to demonstrate respect and dignity for others while working toward a common goal.

Career Readiness

- Communicate ideas clearly and effectively in a variety of mediums through listening, clarifying, and responding comprehensively
- Organize, analyze, and interpret numerical data
- Proficiency for accuracy and detail
- Logical reasoning
- Quantitative problem-solving
- Work independently or in small groups

Take Action

- Explore workforce skill development through on and off-campus activities.
- Engage with the UTA Career Development Center at uta.edu/careers.
- Meet with a career consultant
- Network with employers
- Discover internships and co-ops
- Apply for on-campus employment
- Join Handshake, our career services platform
- Participate in career development programs

Visit www.uta.edu/student-success/major_maps for the latest version of this major map.

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