

What can I do with a...

Major in Math?

<i>I CAN GO IN TO...</i>	<i>AND POSSIBLY WORK FOR...</i>	<i>DOING THIS CAN HELP ME GET THERE...</i>	<i>SAMPLE COMPANIES</i>	<i>SAMPLE TITLES</i>
CAREER AREA	POTENTIAL EMPLOYERS & INDUSTRIES	CAREER PREPARATION STRATEGIES	SAMPLE LIST FOR THIS MAJOR	SAMPLE LIST FOR THIS MAJOR
Education				
<ul style="list-style-type: none"> Teaching Research 	<ul style="list-style-type: none"> Universities & colleges Public and private schools Education department of companies --Train employees at companies 	<p>Sharpen your skills Work on your communication skills both oral and written. Maintain a high GPA.</p> <p>Gain experience Work with age group you are interested in through volunteer and tutoring opportunities.</p> <p>Network Join and be a leader in professional organizations.</p> <p>Pursue a minor Education. Plan to obtain a teaching certificate.</p> <p>Pursue graduate school To teach at a university level, most full-time professors have a masters or PhD in math.</p>	<ul style="list-style-type: none"> University of Texas Texas State University Concordia University TX Austin Community College Round Rock ISD, Leander ISD, Austin ISD, Eanes ISD, Lake Travis ISD Huntington Learning Varsity Tutors Mathnasium 	<p>Job titles</p> <ul style="list-style-type: none"> Professor Teacher Scientist <p>Internship titles</p> <ul style="list-style-type: none"> Student teacher Teaching Assistant Tutor Trainer or Staff Development for companies and schools

CAREER AREA	POTENTIAL EMPLOYERS/INDUSTRIES	CAREER PREPARATION STRATEGIES	SAMPLE LIST FOR THIS MAJOR	SAMPLE LIST FOR THIS MAJOR
Computational Math (Applied)				
<p>Computational math is solving complex math problems for a variety of industries using mathematical methods where computers play an integral role.</p> <ul style="list-style-type: none"> • Research • Consulting • Actuarial science • Analysis • Modeling and simulations • Computer systems Analysis • Data analysis 	<ul style="list-style-type: none"> • Government Agencies • Financial organizations • Biomedical/medical companies • Real Estate groups • Consulting companies • Airline & transportation companies • Insurance companies 	<p>Sharpen your skills Maintain a high GPA, Learn to work in teams with different technical and non-technical people</p> <p>Gain experience Look for internship opportunities with the National Science Foundation.</p> <p>Network Do informational interviews with professionals that do daily what you think you want to do.</p> <p>Pursue a minor Computer Science, Economics, Engineering</p> <p>Pursue a graduate degree Many positions require a master's or doctoral degree.</p>	<ul style="list-style-type: none"> • TX Mutual Insurance company • University of Texas • Sam's club • Apple • Zynga • Siemen's • Indeed • Whole Foods • Visa • Charles Schwab • FloSports 	<p>Job titles</p> <ul style="list-style-type: none"> • Business Analyst • Software engineer • Web Developer <p>Internship titles</p> <ul style="list-style-type: none"> • Research assistant • Researcher • Technician

CAREER AREA	POTENTIAL EMPLOYERS/INDUSTRIES	CAREER PREPARATION STRATEGIES	SAMPLE LIST FOR THIS MAJOR	SAMPLE LIST FOR THIS MAJOR
Computer Science				
Programming: <ul style="list-style-type: none"> • Web Administration • Tech support • Software development • Cryptography 	<ul style="list-style-type: none"> • City, state and federal government • Most areas of Business including: Consulting, internet related companies, software and computer services companies, healthcare, telecom, environmental 	<p>Sharpen your skills</p> <ul style="list-style-type: none"> • Take classes to be certified in computer programming and software administration. • Read journals to stay up to date on changes in the computer industry • Be a good communicator. Learn to work well with non-technical people. • Learn statistical software <p>Gain experience Work in the computer lab on campus, take advantage of internship and volunteer opportunities.</p> <p>Network Be a leader in campus organizations, join and participate in professional organizations.</p> <p>Pursue a minor Computer Science</p> <p>Pursue a graduate degree Consider an advanced degree in MIS or CIS.</p>	<ul style="list-style-type: none"> • WP Engine • Dell • Microsoft • Apple • Facebook • Tenfold • Bound • Thousand Eyes • HP 	<p>Job titles</p> <ul style="list-style-type: none"> • Cryptography • Operations system analyst • Systems Engineer • Programmer analyst • Data Analyst • Software tester • Training Specialist <p>Internship titles</p> <ul style="list-style-type: none"> • Help Desk Assistant

CAREER AREA	POTENTIAL EMPLOYERS/INDUSTRIES	CAREER PREPARATION STRATEGIES	SAMPLE LIST FOR THIS MAJOR	SAMPLE LIST FOR THIS MAJOR
Insurance & Banking				
<ul style="list-style-type: none"> • Actuarial Science • Risk Management/Assessment • Loss Management/control • Underwriting • Mortgage loans • Credit scoring • Investment banking • Mergers & Acquisitions 	<ul style="list-style-type: none"> • Insurance companies • Government agencies • Technical consulting firms • Banks • Mortgage companies • Credit unions • Brokerage firms 	<p>Sharpen your skills</p> <ul style="list-style-type: none"> • Take courses in statistics and finance • Learn statistical software and computer languages • Enhance interpersonal communication skills <p>Gain experience</p> <ul style="list-style-type: none"> • Actuarial Science: Intern with an insurance company (More than 50% of actuaries work for insurance companies) • Banking: Intern or work-part time with a financial services group <p>Network</p> <ul style="list-style-type: none"> • Do informational interviews with underwriters and actuaries. They spend their time very differently. • Serve as a leader (treasurer) in a student organization. <p>Pursue a minor Computer Science, Business</p> <p>Pursue a graduate degree MBA</p>	<ul style="list-style-type: none"> • Allstate • State Farm • Texas Mutual Insurance Company • Teacher Retirement of Texas • National Finance Partners • Cigna • DR Horton • US Risk Insurance Group 	<p>Job titles</p> <ul style="list-style-type: none"> • Underwriter • Actuary • Accountant • Fraud investigator • Budget Analyst <p>Internship titles</p> <ul style="list-style-type: none"> • Actuarial intern • Assistant Underwriter • Teller • Analytics intern • Data intern • Loan processor • Investment intern

CAREER AREA	POTENTIAL EMPLOYERS/INDUSTRIES	CAREER PREPARATION STRATEGIES	SAMPLE LIST FOR THIS MAJOR	SAMPLE LIST FOR THIS MAJOR
Other Business Areas				
<ul style="list-style-type: none"> • Buying • Purchasing • Sales 	<ul style="list-style-type: none"> • Government entities • Manufacturers • Retailers/Wholesalers • Non-profit groups • Internet • Software/tech companies • Financial & Insurance companies 	<p>Sharpen your skills Take a sales class, practice selling, practice public speaking and learn to communicate effectively to a group and in one-on-one situations.</p> <p>Gain experience Part-time jobs, internships in sales.</p> <p>Network Join professional organizations, be a leader in a student group</p> <p>Pursue a minor Business</p> <p>Pursue a graduate degree MBA</p>	<ul style="list-style-type: none"> • Facebook • Suna solutions • National Instruments • Whole Foods • City of Austin • Dell • Chase bank • 3M • BroadSpectrum 	<p>Job titles</p> <ul style="list-style-type: none"> • Sales representative • Buyer • Purchasing agent <p>Internship titles</p> <ul style="list-style-type: none"> • Assistant buyer • Analyst Intern

Selected information on this majors to careers information sheet was adapted from What Can I Do With This Major? produced by the University of Tennessee Center for Career Development.