

MAJOR MAP

WHO WE ARE

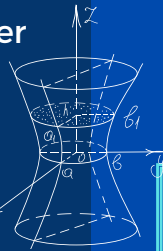
- Department of Mathematics & Physics provides programs of study for those who desire to pursue an undergraduate major in mathematics. The program provides courses to satisfy the mathematics and physics requirements of the University & Several colleges.
- Through the delivery of quality mathematics education at all levels, students will gain the preparation required to pursue advanced degrees in mathematical sciences or related fields or to pursue a vocation in a wide array of areas, including finance, technology, governmental agencies, education, and management.

What skills will students learn throughout this program?

- Solve complex problems in a range of areas.
- Communicate mathematics to a variety of audiences.
- Apply appropriate technology to communicate and solve mathematical problems.
- Demonstrate time management skills.
- Employ mechanical skills from Calculus, Differential Equations, Probability and Statistics, etc.
- Understand how mathematics relates to other disciplines and applies to a vast array of situations.

CAREER OUTCOMES:

- Cyber Security Software Engineer
- Data Engineer
- Retail Manager
- Teacher
- Graduate Student (M.S., Ph.D.)



AREAS OF STUDY:

A Bachelor of Science (B.S.) degree is offered in:

- Mathematical Science
- Mathematical Sciences with Teacher Certification
- Mathematical Sciences with Computer Science

A Minor in Mathematical Sciences is also offered:

- Minor in Mathematical Sciences

A Minor in Physics is also offered:

- Minor in Physics



WHAT SKILLS ARE YOUR FUTURE EMPLOYERS LOOKING FOR?

- Complex problem-solving
- Reading comprehension
- Critical thinking
- Collaboration with others
- Deductive reasoning
- Inductive reasoning
- Number facility
- Communication skills
- Information ordering
- Modeling



For more information, [click here](https://www.tnstate.edu/math/axpx)
<https://www.tnstate.edu/math/axpx>

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

Undergraduate Experiential Major Map: MATHEMATICS



First Year/Freshman

- Complete your Handshake Profile.
- Complete your four-year educational plan in UNIV 1000 during the fall semester.
- Focus on your studies and earn good grades.
- Visit the [Office of Student Success \(OSS\)](#) and connect with your advisor for help navigating college life and your classes. Make an appointment using the student planner app and view the OSS page for other hours and services.
- First Generation students connect with your [First Generational Specialist](#).
- Get to know professors. The best time to connect outside of class is during their office hours.
- Visit the [Academic Achievement and Retention Center](#) for access to study tips, connecting to academic coaches, tutoring, and other helpful resources.
- Attend the Career Fair (Sponsored by the [Career Development Center](#))
- Get involved - Attend organizational fairs, special/corporate events, and volunteer on and off campus.

Sophomore & Junior

- Update your resume and remove high school activities. Have it critiqued by the [Career Development Center](#).
- Review and update LinkedIn and Handshake profiles.
- Attend the Career Fair (Sponsored by the [Career Development Center](#))
- Explore graduate school options.
- Begin preparing for GRE, LSAT, MCAT, GMAT, and other exams for graduate school admissions.
- Begin building your professional wardrobe.
- Meet with your [departmental academic advisor](#) to confirm degree progress and discuss your future academic and career goals.
- Attend institutional and departmental internship workshops.

Senior

- Meet with your [departmental academic advisor](#) to confirm degree progress and discuss your future academic and career goals.
- Apply for [Graduate and Professional School](#) or jobs that fit your interests, skills, and career goals. Follow up on applications and keep a record of the status of each.
**pay attention to due dates*
- Draft a cover letter that can be adapted for a variety of employers. Have it critiqued.
- Complete the Senior Exit Exam and First Destination Survey. ([Testing Center](#))

Academic Success Checklist

- Book an appointment with your academic advisor for pre-registration and advising.
- Discover library resources.
- Visit the math, reading, writing, and tutoring center.
- Complete FAFSA and academic scholarship applications.

Educational Planning Checklist

- Ask your academic advisor about High Impact Practices
- Participate in at least two High Impact Practices at TSU
- Join a student group.

Career Development Checklist

- Create your HandShake Profile.
- Visit [What Can I Do With This Major](#)
- Attend the career fair to expand your network.
- Attend Academic Department workshops and seminars.
- Visit the [Academic Pathways & Partnerships](#)

Think

Engaging in critical thinking and inquiry inside the classroom.

Work

Pursue experiences that will allow you to grow as a leader and professional.

Serve

Explore opportunities to contribute to the broader community and global marketplace.