

HOW TO USE THIS MAP

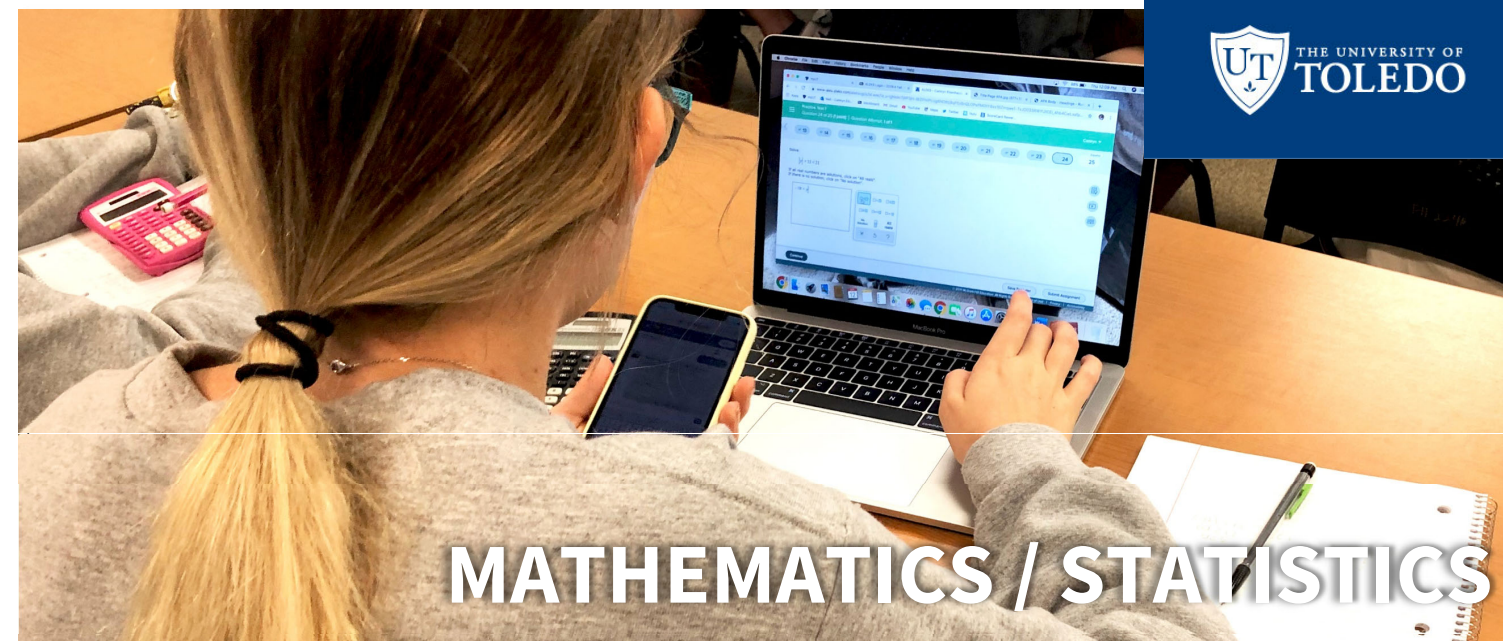
- UToledo's Major Map is a guide for you to plan for future success while you explore your University experience. The five rows of the map provide a step-by-step guide to integrate your academic courses with experiences on and off-campus that will help build your career readiness.
- Start thinking about life beyond college now and use the map to set short- and long-term goals, such as preparing for graduate or professional schools, preparing for your first career-track job and networking with others in your profession.

RESOURCES FOR SUPPORT

From orientation to graduation, there are many resources to support your University experience.

Your success coach is like your personal GPS. As you navigate from where you are to where you want to be, coaches offer one-on-one guidance and support through referrals to academic support services and other campus resources, and connections to campus engagement and experiential learning opportunities. Visit utoledo.edu/successcoach to connect with your success coach.

Career Services provides comprehensive career planning and preparation services for all UToledo students in order to clarify and implement their academic and career goals. Connect with Career Services during your first year and continue working with them often throughout your academic career. Visit utoledo.edu/career to learn more about the programs, services and events to support your success.



MATHEMATICS / STATISTICS

TOP FIVE REASONS TO STUDY STATISTICS AT UTOLEDO

- 1** Experiential learning through hands-on undergraduate research, as early as your first year, working directly with faculty that are experts in their field.
- 2** Choose from either a Bachelor of Science (B.S.) or Bachelor of Arts (B.A.) degree program.
- 3** Intern in business, industry and government - locally and around the U.S.
- 4** Translate research problems into statistical models, perform data analysis, write reports and communicate results.
- 5** The job outlook for UToledo's math majors is bright. Five of the top 10 professions in 2021 were math-intensive, according to *CareerCast.com's Jobs Rated report*.

PUTTING YOUR DEGREE TO WORK

- Biotechnology
- Computer software technology
- Consulting services
- Financial & banking
- Higher education
- Hospital & healthcare
- Information technology
- Insurance
- Local, state & government agencies
- Philanthropy
- Professional services
- Space & defense



BUILD YOUR EXPERIENCE BEYOND THE CLASSROOM

The department offers multiple opportunities for students to engage in work the work of statisticians outside the classroom. Faculty are open to guiding you through undergraduate research projects that allow you to become involved in statistical problems and can lead to honors projects in mathematics. You will also have the opportunity through the Department's Statistical Consulting Service to help the University and local community answer statistical questions.

We support extracurricular activities through student organizations such as ΔX , one of UToledo's oldest student organizations, host lectures and math quiz nights in conjunction with the mathematics honor society, PME, and the AMS student chapter.

AMPLIFY YOUR MAJOR

- Mathematics students often double-major in physics or chemistry.
- Get involved in undergraduate research, it can make you stand out, and you may also have the opportunity to present and publish your research results.

“The courses in probability and mathematical statistics uniquely prepared me for my undergraduate biostatistics research experience. My background was as good as or better than that of students from much more well-known universities from all over the country.”

ZACHARY DIETRICH, Health Care Research Programmer, Arbor Research Collaborative for Health, B.S. '12, M.S. Mathematics, statistics, '14

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Department of Mathematics & Statistics
Main Campus, University Hall, Room 2040
419.530.2568
utoledo.edu/nsm/mathstats



FUELING TOMORROWS

1ST YEAR

2ND YEAR

3RD YEAR

4TH YEAR

EXPLORE YOUR MAJOR AND CAREER PATHWAYS



In the first year, you will have the chance to explore foundational courses such as:

ENGL 1110 College Composition I
MATH 18xx Calculus I & II

Meet with your [academic advisor](#) to learn more about your [plan of study](#).

Explore [undergraduate research](#) opportunities or volunteer opportunities available with groups such as the [UToledo Student Green Fund](#) or [Building Ohio's Sustainable Energy Future \(BOSEF\)](#).

Continue working on core requirements as well as your major requirements: [B.A. Mathematics, statistics](#) or [B.S. Mathematics, statistics](#).

Dive deeper into your specialization in statistics.

Meet with your [academic advisor](#) to make sure you are on track for graduation and have planned out your courses for next year.

Be sure to finish up all your courses for your major and any optional minor and/or additional major(s).

Final courses include Statistical Methods II, Applications of Statistics II and remaining electives needed- all preparing you for your future after graduation.

Need to take the GRE? Start [here](#).

CONNECT WITH OTHERS AND BUILD COMMUNITY



Attend the Student Involvement Fair in early fall; explore over 400 [student organizations](#) and attend [campus events](#).

Consider joining a fraternity or sorority and getting involved in [Greek Life](#).

Working on campus is a great way to meet others. Attend the [Job Fair](#) to learn about campus jobs!

Explore organizations that complement your major. Many colleges have academic-focused organizations. Learn more on [InvoNet](#).

Community service is a great way to get experience as well as give back to the community. Consider joining a [volunteer organization](#).

Join a professional association related to your interests or career development:

- [American Statistical Association \(ASA\)](#)
- [Institute of Mathematical Statistics \(IMS\)](#)

Attend networking and professional development events.

Present your research at a research exhibition on campus. Consider attending and presenting your work at a regional or national conference with a faculty member for networking and exploring career opportunities.

Be sure to include these experiences in your resume: community service, student leadership, organization membership and philanthropic efforts.

BUILD YOUR SKILLS THROUGH EXPERIENCE



Meet with a [faculty member](#) to discuss creative ways to volunteer or intern in your area of interest.

Consider opportunities outside of the classroom. Join a student organization such as:

- [Global Medical Brigades](#)
- [Delta X Math Club](#)

Improve your study strategies and visit the [Learning Enhancement Center](#).

Explore summer job opportunities related to your major by scheduling a meeting with [Career Services](#).

Consider applying to the Office of Undergraduate Research [Summer Research and Creative Activities Program](#) to earn a research scholarship.

Consider doing research with a faculty member. UToledo students often apply for and receive funding for their research and present their results at conferences.

Apply for funding through the [Office of Undergraduate Research](#) and find information about additional opportunities.

"The [median annual wage for actuaries was \\$105,900](#) in May 2021. Employment of actuaries is projected to grow 21 percent from 2021 to 2031, much faster than the average for all occupations." - BLS

Investigate internships or full-time jobs related to careers of interest by attending events for graduating seniors sponsored by [Career Services](#).

ENGAGE IN AN INCLUSIVE GLOBAL PERSPECTIVE



Get to know people who are different from you. Connect with the [Office of Multicultural Student Success](#) (OMSS) by attending OMSS [History and Heritage Month](#) events.

Learn another language or culture to develop new perspectives and build your marketable skills. Visit [World Languages and Cultures](#) for more information.

Connect with the [Education Abroad Office](#) to learn more about the opportunities to live and learn in a different country. Meet with your advisor to see how your credit will transfer and discuss the best time to study away.

Consider completing the OMSS [Student Diversity Certificate](#) program.

Attend events sponsored by the [Office of Diversity, Equity and Inclusion](#).

Join an international student organization to learn more about other cultures.

Attend the I-Village event or I-Dinner, two premier UToledo international events.

Build your intercultural competencies by learning more about diversity, equity and inclusion through OMSS and the Office of Diversity, Equity and Inclusion programs.

PREPARE FOR POST-GRADUATION



Complete your [Handshake Profile](#) (use your UTAD log-in credentials).

Explore [What Can I Do With This Major?](#) and [Candid Career](#) to learn about career paths and employers within your field of study.

Meet with [Career Services](#) to begin developing your resume and a plan to get career ready.

Utilize Handshake and InvoNet to find internships, explore opportunities to meet employers and expand your network by attending career fairs and other events.

Meet with Career Services to update your [resume](#) and LinkedIn profile.

Use [Handshake](#) to apply to part-time jobs, internships or externships to gain practical and relevant experience.

Gain interviewing skills with [Big Interview](#) or schedule an appointment with Career Services for a mock interview.

Join groups on LinkedIn reflecting specific careers or topics of interest in actuarial science.

Solidify post-graduate plans.

Get help from your academic advisor, faculty and Career Services with job searching, resumes, interviews and graduate school applications.

Learn about internships, experiential learning more through [Society of Actuaries \(Training Program\)](#) and [Handshake](#).

WHAT WILL I LEARN?

Develop your career readiness competencies to ensure you are prepared to launch your career upon graduation:

- Career & Self Development
- Communication
- Critical Thinking
- Equity & Inclusion
- Leadership
- Professionalism
- Teamwork
- Technology

HOW WILL I USE IT?

Use your degree to attain career positions such as:

- Actuary
- Actuarial consultant
- Actuarial senior analyst
- Analyst
- Catastrophe modeling assistant
- Compliance analyst
- Commercial crime underwriter
- Consultant
- Economic consultant
- Employee benefits consultant
- Faculty member
- Financial analyst
- Healthcare actuarial specialist
- Manager actuarial services
- P&C assistant actuary
- Senior actuary
- Senior annuity valuation actuary
- Senior health actuary consultant
- Standard auto pricing
- Underwriter
- Workers compensation actuary