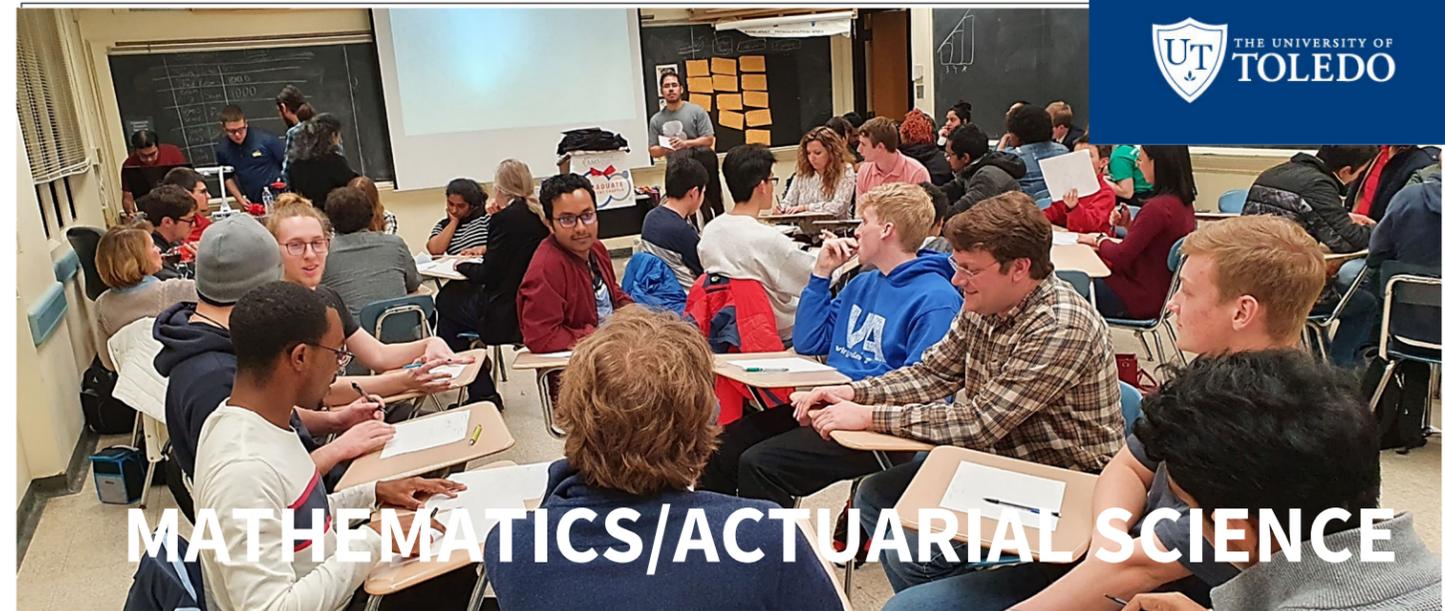## HOW TO USE THIS MAP

- 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.

BUILD YOUR EXPERIENCE BEYOND THE CLASSROOM

The department offers multiple opportunities for students to engage in work of actuaries outside the classroom. Faculty are open to guiding you through undergraduate research projects that allow you to become involved in actuarial work through the SLOPE software platform and can lead to honors projects in mathematics. The actuarial science program offers internships with industrial partners that also mentor students.

We support extracurricular activities through student organizations such as ΔΧ, one of UToledo's oldest student organizations, the mathematics honor society ΠΜΕ and the AMS student chapter. Specifically dedicated to actuarial students, there is also the Actuarial Science Club and the opportunities offered by the Ohio Actuarial Science Consortium which includes Youngstown State and University of Cincinnati.

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

MATHEMATICS/ACTUARIAL SCIENCE

TOP FIVE REASONS TO STUDY ACTUARIAL SCIENCE AT UTOLEDO

1 Emphasis on experiential learning through hands-on research, as early as your first year.

2 Real-world problem solving and professional training.

3 Industrial mentors, job shadowing, networking and internship opportunities.

4 UToledo is part of the Ohio Actuarial Science consortium.

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

- Accounting
- Aerospace & transportation
- Consulting services
- Financial & banking
- Hospital & healthcare
- Information technology
- Insurance
- Local, state & government agencies
- Pension & investments
- Professional services

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.

"I thoroughly enjoyed working alongside great professors and helping students. I stayed active in several student organizations and was able to network with actuaries currently working in the field as a part of the COFACT scholarship group. I have a P&C Actuarial Analyst position lined up after graduation. I am so thrilled to begin the next step in my career."
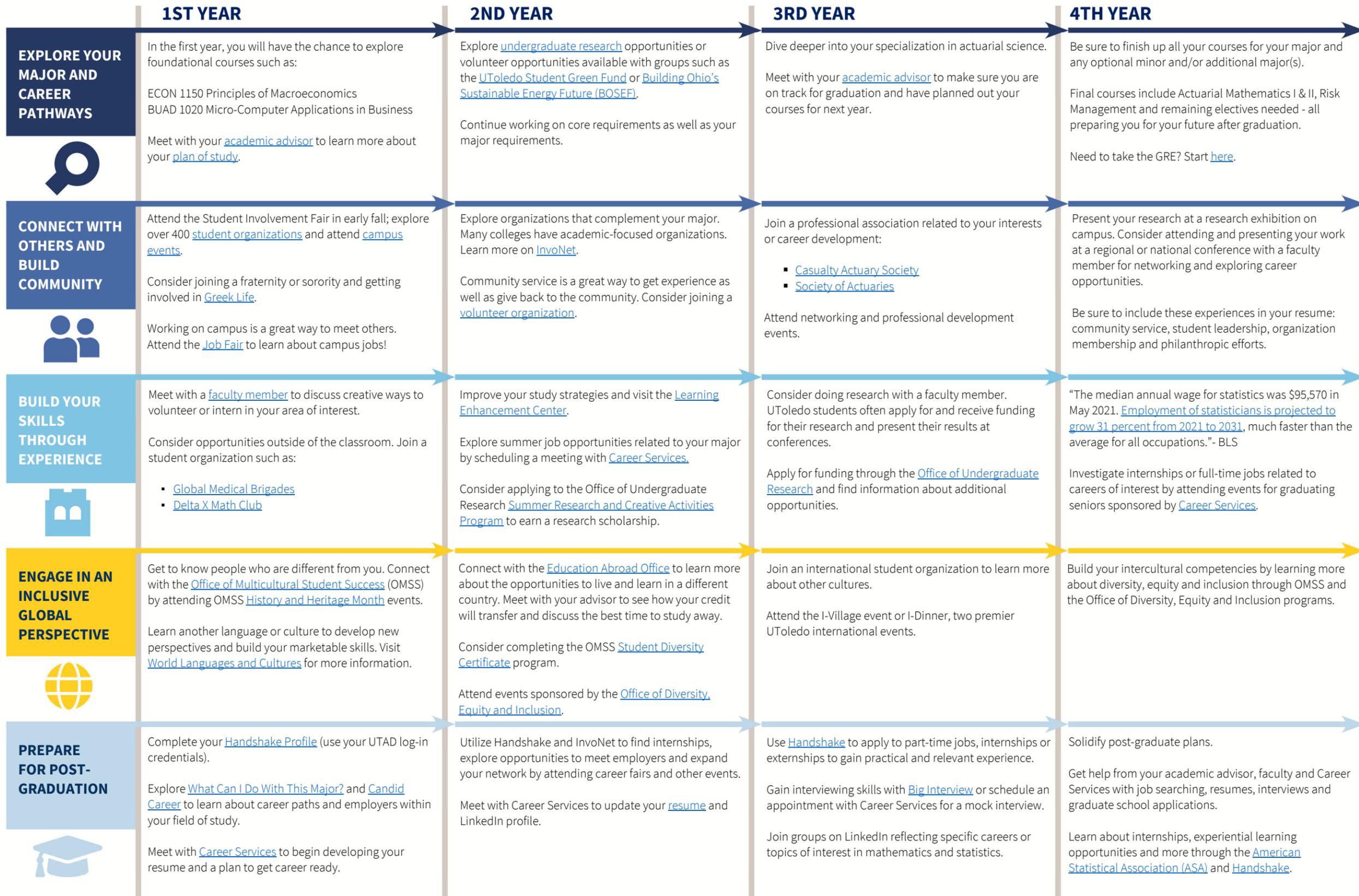
JORDAN DRUMMELSMITH, Actuarial Sr. Analyst, Nationwide, B.S. Mathematics, actuarial science, '21

FA2022

THE UNIVERSITY OF **TOLEDO**

	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: ECON 1150 Principles of Macroeconomics BUAD 1020 Micro-Computer Applications in Business 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.	Dive deeper into your specialization in actuarial science. 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 Actuarial Mathematics I & II, Risk Management 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: • Casualty Actuary Society • Society of Actuaries 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 statistics was $95,570 in May 2021. Employment of statisticians is projected to grow 31 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 mathematics and statistics.	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 opportunities and more through the American Statistical Association (ASA) 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:

■ Biostatistician
■ Business operations manager
■ Clinical statistics lead
■ Computer scientist
■ Data modeler
■ Data research analyst
■ Data scientist
■ Game statistician
■ Human capital consultant
■ Institutional research analyst
■ Quantitative analyst
■ Regulatory coordinator
■ Research analyst
■ Research statistician
■ Scientific research assistant
■ Senior data analyst
■ Senior scientist
■ Software developer
■ Software quality manager
■ Statistical assistant
■ Statistician
■ Technology researcher