HOW TO USE THIS MAP

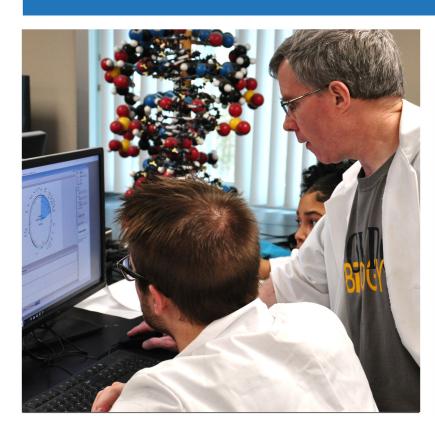
- UToledo's Major Map is a guide for you to plan for future success while you explore your University experience. The five rows of the map provide a step-by-step guide to integrate your academic courses with experiences on and off-campus that will help build your career readiness.
- Start thinking about 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 <u>utoledo.edu/career</u> to learn more about the programs, services and events to support your success.



BUILD YOUR EXPERIENCE BEYOND THE CLASSROOM

As a biology student at UToledo you will have the opportunity to get involved with undergraduate research as soon as your first year on campus. You can work in a research lab with a biology faculty member or faculty from the Health Science Campus which is home to UToledo's College of Medical and Life Sciences. Faculty have research interests that range from plant molecular biology, cancer cell biology, neuroscience and more. Undergraduate research allows you to put your course content into practice while honing skillsets that will be invaluable in your future career.

Talk with your academic advisor or a faculty mentor to learn how you can immerse yourself in experiences that will challenge you, provide meaningful interaction with faculty and peers and actively engage you in the material you're learning.

COLLEGE OF NATURAL SCIENCES AND MATHEMATICS

Department of Biological Sciences Main Campus, Wolfe Hall, Room #1235 419.530.2065 utoledo.edu/nsm/biosci





TOP FIVE REASONS TO STUDY BIOLOGICAL SCIENCES AT UTOLEDO

- Concentrations in neuroscience and pre-professional programs, such as medicine, osteopathic medicine, veterinary medicine, dentistry, podiatry and physician's assistant programs.
- 2 Emphasis on experiential learning through hands-on undergraduate research as early as your first year, with paid summer research positions also possible.
- Work in labs with the latest technology and equipment and have access to UToledo's Health Science Campus, home to the UToledo Medical Center (UTMC).
- Fulfill both your major's course requirements and the requirements of the prehealth concentration without taking extra classes.
- The medical school acceptance rate for UToledo biological sciences undergraduates with GPAs of 3.5 or higher is 75% over the past 10 years.

PUTTING YOUR DEGREE TO WORK

- Biomedical sciences
- Dentistry
- Genomics
- Higher education
- Hospital & health care
- Immunotherapy
- Medicine
- Neuroscience
- Pharmaceutical
- Public health
- Research
- Secondary education
- Veterinary

AMPLIFY YOUR MAJOR

- Study abroad during your junior year in a yearlong exchange program with The University of Salford in Manchester, England. All courses transfer seamlessly.
- Get involved in undergraduate research, it can make you stand out and provide you the opportunity to present and publish your research results.
- Consider a unique dual degree program. Earn a B.S. degree in biological sciences and M.S. degree in bioinformatics a field that's exploded recently in just 5.5 years. This <u>pipeline program</u> is available to UToledo biological sciences students at the end of their first semester at UToledo.

"When I heard about the Salford Exchange program, I knew I wanted to take part. Being a biology major I did not think that I would be able to participate in a program like this, but the classes and credits seamlessly integrate into the normal curriculum. Spending my junior year in the UK allowed me to learn in a new environment, make life-long friendships and experience a variety of cultures throughout Europe."

OLIVIA SAGAN, M.D., Resident, University of Rochester Medical Center, UTMC, '22, B.S. Biology, Pre-Med, '17

2022-23 **Biology**

Department of Biological Sciences

<u>Career</u> to learn about career paths and employers within

Meet with <u>Career Services</u> to begin developing your

resume and a plan to get career ready.

your field of study.



1ST YEAR 2ND YEAR 3RD YEAR 4TH YEAR In the first year, you will have the chance to explore Meet with your <u>academic advisor</u> to make sure you are Start to dive deeper into the discipline of Biology. Be sure to finish up all your courses for your major and **EXPLORE YOUR** on track for graduation and have planned out your foundational courses along with some electives: Explore <u>undergraduate research</u> or leadership and any optional minor and/or additional major(s). **MAJOR AND** volunteer opportunities available through the courses for next year. Pre-Health Advising Center. CAREER CHEM 1230 General Chemistry I Final courses include General Physics and Biological Continue working with the <u>Pre-Health Advising Center</u> BIOL 2150 Fundamentals of Life Science: Diversity of Literature & Communication as well as remaining **PATHWAYS** Life, Evolution & Adaptation Continue working on core requirements as well as your on letters of recommendation, mock interviews, electives - all preparing you for your future after major requirements: B.A. Biology or B.A. Biology personal statements and resumes, standardized testing, graduation. Meet with your <u>academic advisor</u> to learn more about neuroscience concentration or B.S. Biology or B.S. individual career and personal goals and more. Biology - bioinformatics or neuroscience concentration your <u>plan of study</u>. Need to take the GRE? Start here. Plan and study for the GRE and MCAT. Taking the MCAT? Start here. Attend the Student Involvement Fair in early fall; explore ´ Community service is a great way to get experience as Present your research at a research exhibition on **CONNECT WITH** Consider doing research with a faculty member. over 400 student organizations and attend campus well as give back to the community. Consider joining a campus. Consider attending and presenting your work UToledo students often apply for and receive funding **OTHERS AND** events. volunteer organization. at a regional or national conference with a faculty for their research and present their results at BUILD member for networking and exploring career conferences. Check out the Office of Undergraduate Consider joining a fraternity or sorority and getting Live with peers who have similar career goals and opportunities. COMMUNITY Research to lean more. involved in Greek Life. participate in special health-related programming in the Health Professions Living Learning Community (HPLLC). Be sure to include these experiences in your resume: Join a professional association related to your interests. Working on campus is a great way to meet others. which is located in <u>International Hall</u>, a suite-style community service, student leadership, organization residence hall. membership and philanthropic efforts. Attend the <u>Job Fair</u> to learn about campus jobs! Interested in undergraduate research? Apply for funding 'Employment of medical scientists is <u>projected to grow</u> Meet with a Biological Sciences faculty member to Improve your study strategies and visit the **Learning BUILD YOUR** through the Office of Undergraduate Research. 17 percent from 2021 to 2031, much faster than the discuss creative ways to volunteer or intern in your area **Enhancement Center.** SKILLS average for all occupations."-BLS **THROUGH** Explore summer job opportunities related to your major Participate in a yearlong exchange program with The by scheduling a meeting with Career Services. University of Salford in Manchester, England. All courses Investigate internships or full-time jobs related to **EXPERIENCE** Consider opportunities outside of the classroom. Join a student organization such as: transfer seamlessly. careers of interest by attending events for graduating Consider applying to the Office of Undergraduate seniors sponsored by Career Services. American Medical Student Association (AMSA) Research <u>Summer Research and Creative Activities</u> Camp Kesem at UToledo Program to earn a research scholarship. Global Medical Brigades Get to know people who are different from you. Connect Connect with the Education Abroad Office to learn more Join an international student organization to learn Build your intercultural competencies by learning more **ENGAGE IN AN** with the Office of Multicultural Student Success (OMSS) about the opportunities to live and learn in a different more about other cultures. about diversity, equity and inclusion through OMSS and **INCLUSIVE** by attending OMSS History and Heritage Month events. country. Meet with the Salford Exchange Program the Office of Diversity, Equity and Inclusion programs. **GLOBAL** <u>Director</u> to discuss studying abroad next year. Attend the I-Village event or I-Dinner, two premier Learn another language or culture to develop new UToledo international events. **PERSPECTIVE** Consider completing the OMSS Student Diversity perspectives and build your marketable skills. Visit Certificate program. World Languages and Cultures for more information. Attend events sponsored by the Office of Diversity, Equity and Inclusion. Complete your <u>Handshake Profile</u> (use your UTAD log-in Solidify post-graduate plans. Utilize Handshake and InvoNet to find internships, Use <u>Handshake</u> to apply to part-time jobs, internships **PREPARE** credentials). or externships to gain practical and relevant explore opportunities and meet employers to expand **FOR POST-**Get help from your academic advisor, faculty and Career your network by attending career fairs and other events. experience. **GRADUATION** Explore What Can I Do With This Major? and Candid Services with job searching, resumes, interviews and

Meet with Career Services to update your <u>resume</u> and

LinkedIn profile.

Gain interviewing skills with <u>Big Interview</u> or schedule

Join groups on LinkedIn reflecting specific careers or

an appointment with Career Services for a mock

topics of interest in biological sciences.

interview.

graduate school applications.

and more through Handshake.

Connect with co-ops, internships, career opportunities,

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:

- Assistant professor
- Bioinformatics analyst
- Computational biologist
- Data analyst
- Dentist
- Immunology researcher
- Lab assistant
- M.D.
- Medical science liaison
- Optometrist
- Pathologist
- Patient advocate
- Physician
- Physician's assistant
- Project scientist
- Process development specialist
 - Ouality control director
- Reconstructive microsurgeon
- Regulatory medical writer
- R&D manager
- Research scientist
- Staff scientist
- Transparency specialist
- Veterinarian