

## MAJOR MAP

### WHO WE ARE

- Our chemistry program provides a dynamic and comprehensive education, integrating theoretical knowledge with practical laboratory experience.
- Students are afforded the chance to collaborate with esteemed faculty on cutting-edge research endeavors, thereby readying them for various career trajectories in industry, academia, and beyond.
- Supported by state-of-the-art facilities and a nurturing learning milieu, our program empowers students with the requisite skills and expertise to excel in the continually evolving domain of chemistry.

### CAREER OUTCOMES:

- Technical writer
- Environmental scientist
- Forensic scientist
- Lab technician/bench chemist
- Chemistry teacher
- Medical lab technician



### AREAS OF STUDY:

- Professional Chemistry
- Professional Biochemistry
- General Chemistry
- Teacher (K-12) Certification



### What skills will students learn throughout this program?

- Develop strong problem-solving skills.
- Problem-Solving Abilities
- Read and interpret spectroscopy data.
- Analyze and critically present data to a technical audience.
- Use advanced laboratory instruments for scientific investigation.
- Acquire a fundamental knowledge of key chemical disciplines.
- Identify, search for, read, and evaluate published data.
- Communicate effectively through written, oral, and visual media.
- Formulate research questions, hypotheses, and experimental plans.
- Develop skills in setting priorities, meeting deadlines, and time management.



### WHAT SKILLS ARE YOUR FUTURE EMPLOYERS LOOKING FOR?

- Laboratory Techniques
- Analytical Skills
- Problem-Solving
- Research Skills
- Communication Skills
- Attention to Detail
- Computer Skills
- Critical Thinking
- Teamwork and Collaboration
- Analytical Thinking
- Safety Awareness
- Time Management
- Adaptability and Flexibility
- Ethical Conduct
- Mathematical Skills
- Knowledge of Regulation and Compliance



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

# Undergraduate Experiential Major Map: Chemistry



## 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.