

**Bachelor of Science in Chemistry (BS CHEM)  
2023 - 2024 Advising Handout**

**Important Information About Your Degree**

- **College of Science Admission Requirement:** Students must demonstrate proficiency in College Algebra by placing into Math Level 2 or higher through the UNT Math Placement Exam (Not the same as TSI) OR completing College Algebra or higher with a grade of C or higher.
- **UNT Double-Dip Course Policy (Best Selection):** Courses shown in *italics* satisfy multiple degree program requirements. Students who do not take the Best Selection courses, will have to take additional courses to meet program requirements. Whether or not the course is taken to fulfill a specific university core category, all courses are required by the program to complete the degree. Electives may be required due to double-dipping.
- Hour and GPA Requirements for graduation/degree completion:
  - BS in Chemistry requires at least 120 hours, 36 Advanced hours, 2.00 UNT GPA, 2.00 overall GPA and 2.5 Advanced Science GPA
- Courses marked with an asterisk (\*) require a grade of **“C” or Higher**
- Courses in **bold** require prerequisites. Prerequisites are listed in the university catalog with the course description.
- An official degree audit is required for graduation; Students **must** meet with an academic advisor to request a degree audit. Students can review degree requirements by running their audit at <http://mydegreeaudit.unt.edu/>.
- For major-specific career information, contact the Department of Chemistry at [chem-advising@unt.edu](mailto:chem-advising@unt.edu).
- For information about allied health graduate programs, contact the Office of Health Professions in Hickory Hall 256 or at [healthcareers@unt.edu](mailto:healthcareers@unt.edu).
- For teaching certification courses and requirements, contact [nt@unt.edu](mailto:nt@unt.edu).
- For assistance with TSI status or mandatory courses, contact [TSI@unt.edu](mailto:TSI@unt.edu).
- If interested in applying to the Forensic Science Program, visit <https://forensic.unt.edu/> for admission information and application. For additional program information visit <https://cos.unt.edu/advising> or contact the COS Advising Center at [cosadvising@unt.edu](mailto:cosadvising@unt.edu).

**Advising Notation Key**

<b>X</b> = Requirement Completed Credit is posted within the degree audit.	<b>IP</b> = In Progress/Pending Credit Advisor has seen proof from an unofficial transcript or an official score	<b>?</b> = Needs further evaluation Student may need to provide additional information. (ex. a course syllabus)
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Foundation Requirements:		
All Foundation courses need at least a C or higher and with a 2.50 or higher GPA before taking any advanced courses		
CHEM 1400: First Year Seminar in Chemistry		1
<b>CHEM 1410* &amp; 1430* – General Chemistry I &amp; Lab</b>		4
<b>CHEM 1420* &amp; 1440* – General Chemistry II &amp; Lab</b>		4
<b>CHEM 2370* &amp; 3210* – Organic Chemistry I &amp; Lab</b>		4
<b>CHEM 2380* &amp; 3220* – Organic Chemistry II &amp; Lab</b>		4
<b>CHEM 3451* &amp; 3452* - Quantitative Analysis &amp; Lab</b>		4
Major Requirements:		
Must complete all Foundation and Major courses with a C or higher		
<b>CHEM 3510* &amp; 3230* – Physical Chemistry I &amp; Lab</b>		4
<b>CHEM 3520* &amp; 3240* – Physical Chemistry II &amp; Lab</b>		4
<b>CHEM 4610* – Advanced Inorganic Chemistry Lecture</b>		3
<b>CHEM 4620* – Advanced Inorganic Chemistry Lab</b>		1
<b>CHEM 4631* &amp; 4632* – Instrumental Analysis &amp; Lab</b>		4
<b>CHEM 4XXX* – Advanced 4000-Level Chemistry</b>		3
<b>CHEM 4XXX* – Advanced 4000-Level Chemistry Or BIOC 4540 – Biochemistry I (required for ACS certification)</b>		3
Other Required Courses for Degree		
<b>MATH 1710* – Calculus I</b>		4
<b>MATH 1720* – Calculus II</b>		3
<b>MATH 2700 – Linear Algebra</b>		3
<b>MATH 2730 – Multivariable Calculus</b>		3
Complete one of the following Physics Sequences:		
Option 1:		
<b>PHYS 1510* &amp; 1530* – General Physics I with Calculus &amp; Lab</b>		4
<b>PHYS 1520* &amp; 1540* – General Physics II with Calculus &amp; Lab</b>		4
Option 2:		
<b>PHYS 1710* &amp; 1730* – Mechanics &amp; Lab</b>		4
<b>PHYS 2220* &amp; 2240* – Electricity &amp; Magnetism &amp; Lab</b>		4

University Core Requirements		
42 hours – Students may elect to take any course approved for the University Core Curriculum to fulfill these requirements; however, there are courses recommended in the core categories for students pursuing a Chemistry major		
Composition I:		3
<b>Composition II:</b>		3
<i>Math:</i>		3
<i>Life &amp; Physical Science:</i>		3
<i>Life &amp; Physical Science:</i>		3
Creative Arts:		3
Language, Philosophy & Culture:		3
US History to 1865:		3
US History from 1865:		3
Federal Government:		3
Texas Government:		3
Social & Behavioral Sciences:		3
<i>Component Area Option I:</i>		3
<i>Component Area Option II:</i>		3
Minor Requirements		
A minor of at least 18 hours in Mathematics, Computer Science, Physics, Biology, Geology (if taken as a laboratory science), or Materials Science, of which 6 hours must be advanced.		
Additional University Requirements		
A minimum of 2 hours of advanced electives are needed to meet university requirement of 36 advanced hours		

*\*This information is for **ADVISING ONLY** and is not official. Requirements can and do change without notification.*

**Helpful Information:**

**Lecture/Labs:** You will need to enroll in lectures and labs separately. Recitations are required sessions reserved for additional assistance. You will automatically enroll in recitation when you enroll in a course that requires it.

**Advanced:** Indicates any course numbered 3000 – 4000 level.

**Advanced Elective:** This is a course numbered 3000 or higher that is not specified in the degree program.

**TSI Incomplete:** This refers to students who did not receive the minimum score requirement. It **DOES NOT** mean that you have not taken the TSI Exam yet.

**TSI Complete:** This refers to students who received the minimum score requirement. It **DOES NOT** refer to all students who have taken the TSI Exam.

**TSI Mandatory Courses:** If you are TSI Incomplete, you will need to enroll in your TSI courses **BEFORE** enrolling in the rest of your courses.

The **Texas Success Initiative** (TSI) is **NOT** the same as the **Math Placement Exam**. You can only take the Math Placement Exam if you are TSI complete.