When planning your Orientation visit, schedule the earliest day possible to ensure courses are still open for the registration: [https://und.edu/admissions/undergraduate/orientation/index.cfm](https://und.edu/admissions/undergraduate/orientation/index.cfm)

Students choosing chemistry for their major can follow one of the three tracks:

**B.S. in Chemistry**
- **American Chemical Society (ACS) Certified Degree** – Recommended for students who want the best preparation for a chemistry career, including graduate school. A strong high-school background in chemistry and algebra is recommended or the program may be delayed.

**B.S. with a Major in Chemistry**
- **Physical Science Option** – Also recommended for students who want a chemistry career or graduate school, but there are fewer requirements than the ACS Certified track. This track is a good fit for students who are pre-education or who want to minor with another program. Students choosing this option will be able to fit pre-med course requirements around this curriculum.
- **Biochemistry Option** – Recommended for students who are pre-health professional majors or who want to double-major with another program. Because of the lower level of math required, this track is not suitable for students who are thinking of graduate school in chemistry.

If students are unsure which track they want to pursue, they should start with the ACS Certified track – it is easier to fall back into one of the other tracks than to catch up. Schedules of the first-semester students majoring in chemistry differ by only two courses (intro chemistry and math, see details below).

**Chemistry Major 1st Semester Freshman Courses**

The Chemistry Department is offering Chem 101, Introduction to Chemistry Seminar (1-credit), for 1st year students on Thursdays, 12:00-1:00 PM. All chemistry majors are required to enroll.

1. **Must Be Taken First Semester (or program will be delayed)**

**ACS Certified Track:**
- Chem 221/221L* Fundamentals of Chemistry & Lab 4 cr.
- Math 165** Calculus I 4 cr. Co-req of Math 165 or higher (or the highest math for which student is eligible)

**Physical Science Option Track:**
- Chem 121/121L* General Chemistry I & Lab 4 cr.
- Math 165** Calculus I 4 cr. Co-req of Math 103 (or the highest math for which student is eligible)

**Biochemistry Option Track:**
- Chem 121/121L* General Chemistry I & Lab 4 cr.
- Math 146** Applied Calculus I 4 cr. Co-req of Math 103 (or the highest math for which student is eligible)

* The lecture courses, Chem 121 and 221, must be taken concurrently with the corresponding laboratory courses, Chem 121L and 221L. Students choosing either the Physical Science Option or Biochemistry Option Tracks are encouraged to enroll in more challenging Chem 221/221L courses instead of Chem 121/121L if they have a solid background in chemistry and algebra.

Students choosing the ACS Certified Track may take Chem 121/121L instead of Chem 221/221L; however, this will add an additional year to their undergraduate study. Students who are unsure of their high-school background in chemistry should initially sign up for Chem 221/221L. Students will then be able to
switch to Chem 121/121L during the first two-three weeks of classes. If a student switches to Chem 121/121L, he or she must take Chem 122/122L the next semester to catch up.

** An appropriate ACT score or the COMPAS Placement Test is required for all math classes. If the Mathematics Department determines that the student is not eligible for Math 165 (ACT ≥ 28 required, for ACT 27 Math 112 and Math 165 can be taken concurrently), he/she should enroll in Math 107 or the highest mathematics course for which the student is eligible. Math 146 (ACT ≥ 26) is required for the Biochemistry Option Track; however, **students are encouraged to enroll in Math 165 (or follow the course sequence leading to Math 165)** if they want to keep the option of switching into one of the other two tracks. It is important to register for the mathematics courses as soon as possible as the classes usually fill quickly. Information about math placement can be found at http://und.edu/health-wellness/counseling-center/compass-exam.cfm.

** II. Strongly Encouraged for the First Semester**

Engl 110* Composition I 3 cr. (Engl 130 will be required later)
Lang 101 (Any) Foreign Language 4 cr. (Lang 201 will be required later)

* Engl 110 is waived for students with ACT ≥ 27; they may enroll directly in Engl 130.

** III. Other Course Choices/Requirements**

Arts & Humanities or Social Science **Essential Studies courses** that can fill schedule.
https://und.edu/academics/essential-studies/approved-courses.cfm

** IV. Other Program/Major Information**

It is important that each chemistry freshman meets his/her chemistry academic advisor promptly.