# Mission/Vision Statement

The mission of the Wilkes University Chemistry Programs is educate and train the next generation of science practitioners, engineers, medical professionals, pharmacists to excel in a diverse array of chosen fields. Students will receive education and training which will: (1) meet, if not exceed, the requirements of the American Chemical Society (ACS) for professional chemists, (2) make students competitive in the finest graduate and professional schools, and (3) allow students to be employed in a variety of chemical and chemical-related industries and government laboratories.

## Students/Customers

The department serves students pursuing a Bachelor of Science in Chemistry or Biochemistry, a Bachelor of Arts in Chemistry or a Minor in Chemistry.

## Program Objectives (PO)

- To have students graduate with degrees in chemistry and biochemistry consistent with guidelines provided by the American Chemical Society.
- To have majors obtain admission into graduate and professional schools.
- To have the graduates obtain employment in chemical industry or education.

## Student Learning Objectives (SLO)

- Proficiency in analysis, organization, interpretation and presentation of chemical data.
- Expression of chemical concepts with quantitative relationships and interpretation of the results obtained from the use of these quantitative relationships in terms of the chemical concepts conveyed in this format.
- Written communication in a cogent and coherent form demonstrating understanding of chemical concepts.
- Development of critical thinking skills in synthesizing information.
- Appreciation of the relevance of chemistry to everyday life.
- Recognition that the various areas of chemistry are interrelated and require integration of basic chemical principles including chemical formulas and nomenclature, chemical reactions and stoichiometry, chemical equilibria including acid-base theory and molecular structure.

## Key Assessment Activities

- Quizzes, written exams, homework assignments, lab exercises, written lab reports and research papers.
- Standardized final exams (in select courses) and a senior exit examination.
- Oral presentations, papers, and posters in senior seminar and upper-level courses.
- Senior research reports.

## University Strategic Plan Goals (SPG)

1. Achieving excellence & growth in academic programs.
2. Developing a world-class support environment.
3. Valuing our people.

## Institutional Student Learning Outcomes (ISLO)

Through coursework, learning experiences, co-curricular and extracurricular activities, students will develop and demonstrate:

1. Knowledge, skills, and scholarship appropriate to general and major field areas of study.
2. Effective written and oral communication skills and information literacy using an array of media and modalities.
3. Practical, critical, analytical, and quantitative reasoning skills.
4. Actions reflecting ethical reasoning, civic responsibility, environmental stewardship, and respect for diversity.
5. Interpersonal skills and knowledge of self as a learner that contribute to effective team work, mentoring, and life-long learning.
## Strategic Alignment

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Alignment w/SPG</th>
<th>Alignment w/ISLO</th>
</tr>
</thead>
<tbody>
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**Classification of Instructional Program (CIP) Code:** 40.0501 (Chemistry)  
26.0202 (Biochemistry)