Program Description
The chemistry and biochemistry program is designed to provide the first two years of courses necessary to obtain a chemistry or biochemistry baccalaureate degree from a four-year college or university. In addition to general and organic chemistry knowledge, students will be trained in data collection and analysis, and scientific communication. Through the laboratory portion of the program, students will reinforce their understanding and application of the theory learned in class, develop laboratory skills and techniques, and formulate conclusions based on observations. Students are strongly encouraged to work with an advisor in course selection as transfer requirements between four-year institutions may differ.

Program Outcomes
Upon completion of this program a student will be able to:

• Apply knowledge of general and organic chemistry to analyze data, draw conclusions, and solve problems.
• Apply safe practices to execute laboratory techniques and use appropriate equipment and instrumentation to carry out experimental procedures.
• Access scientific information using basic scientific references and literature and evaluate technical information critically.
• Communicate in an ethical, clear and organized manner, scientific concepts, experimental results, and properly cited reference material.
• Work effectively in groups, as leaders or team members, to solve problems and interact productively with a diverse group of peers.
Suggested Course Sequence
A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

First Semester
- ENGL 101 - Introduction to College Writing 3 semester hours *
- MATH 181 - Calculus I 4 semester hours (MATF)
- CHEM 131 - Principles of Chemistry I 4 semester hours (NSLD)
- Humanities Distribution 3 semester hours (HUMD) ‡

Second Semester
- ENGL 102 - Critical Reading, Writing, and Research 3 semester hours (ENGF)
- BIOL 150 - Principles of Biology I 4 semester hours (NSLD/GEEL)
- CHEM 132 - Principles of Chemistry II 4 semester hours (NSLD)
- MATH 182 - Calculus II 4 semester hours

Third Semester
- CHEM 203 - Organic Chemistry I 5 semester hours
- PHYS 161 - General Physics I: Mechanics and Heat 3 semester hours
- MATH 280 - Multivariable Calculus 4 semester hours
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD) **

Fourth Semester
- CHEM 204 - Organic Chemistry II 5 semester hours
- ENES 206 - MATLAB for Engineers 1 semester hour
- OR
- Science (BIOL, CHEM, PHYS) or Mathematics Elective 1 semester hour
- PHYS 262 - General Physics II: Electricity and Magnetism 4 semester hours
- Arts Distribution 3 semester hours (ARTD)
- Behavioral and Social Sciences Distribution 3 semester hours (BSSD)

Total Credit Hours: 60
* ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or choose elective.
** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.
Choose one distribution course that also fulfills the Global and Cultural Perspectives requirement.
‡ It is recommended that COMM 108 be taken as the HUMD distribution elective.