**Bachelor of Science in Biochemistry**

*Content Areas:*

1. Demonstrate an understanding of the physical/chemical principles that provide significant insight into the functioning of living systems as measured through standardized subject exams developed by the American Chemical Society.
2. Know key concepts and principles regarding biochemical structures, principal biochemical pathways of living organisms and the molecular basis of biochemical processes.

*Laboratory Techniques:*

1. Understand the theory and learn to operate a wide variety of advanced biochemical instrumentation.
2. Perform laboratory techniques involving chromatographic separations, analyses and purifications.
3. Perform laboratory techniques involving key biochemical reactions, procedures and functions.

*Acquired Skills:*

1. Access and critically analyze literature in the field of biochemistry.
2. Identify and discuss the major issues, including ethical ones, at the forefront of the discipline of biochemistry.
3. Use oral, written, and visual presentations to present their work to both a science literate and a general audience.
4. Use computers as information and research tools, including data acquisition and statistical analysis.

*Pre-Health Professions Concentration (additional objective):*

1. Enhance students’ competitiveness for entry into health related professional school as evaluated by acceptance rates.