Program: Biochemistry and Molecular Biology
Degree: Bachelor of Science

ABOUT THIS PROGRAM
The mission of the chemistry department is to prepare students for professional careers in industrial chemistry, medicine, teaching, or graduate studies while bringing a Reformed Christian perspective to the science by affirming that all creation is the work of God and that each of us is a co-participant in the redemptive process. Students not only receive the foundation and training for a career but will also expand their understanding of the Creator, his creation, and our care for it. The program includes opportunities for research and independent study for upper-level students, whether in area laboratories or by means of off-campus research efforts.

The biochemistry and molecular biology major prepares students specifically for careers in industrial chemistry, biochemistry, medicine, or graduate research by examining God's glory displayed through the fundamental building blocks of life and matter.

FOUNDATIONS COURSEWORK
- First Year Experience
  - FYF 101/111
- Theology
  - THEO 121
  - THEO 122
- Philosophy
  - PHIL 101
  - PHIL 102/110/111/HON 108
- History
  - HIST 103
  - HIST 104
- English
  - ENGL 103/HON 103
  - ENGL 104
- Social Sciences
  - One from ECON 121, PLSC 121, PSYCH 121, PSYC 123, SOC 121
- Fine Arts
  - One from 9 options
- Physical Wellness
  - PE 110/112
- Cross Cultural Studies
  - Two from 20 options

PROGRAM COURSEWORK
- Major Requirements
  - BIOL 110 Introduction to Biology
  - BIOL 306 Cell and Molecular Biology
  - BIOL 316 Advanced Molecular Biology
  - CHEM 103 Fundamentals of Chemistry I
  - CHEM 104 Fundamentals of Chemistry II
  - CHEM 205 Organic Chemistry I
  - CHEM 206 Organic Chemistry II
  - CHEM 303 Biochemistry I
  - CHEM 304 Biochemistry II
  - CHEM 331 Physical Chemistry I
  - CHEM 393 Science Seminar
  - CHEM 400 Field Education
  - MATH 111 Analytical Geometry and Calculus I
  - MATH 112 Analytical Geometry and Calculus II
  - MATH 151 or MATH 351
  - PHYS 211 Calculus-Based General Physics I
  - PHYS 212 Calculus-Based General Physics II
  - Three from: BIOL 204, 303, CHEM 202, 305, 340

This plan includes Foundation and Major coursework. Additional elective credits may be needed to reach the required 120 credit hours to earn degree.

6/7/2018