

# CHEMISTRY MAJOR

<sup>1</sup> May be used to fulfill a general education requirement..

The chemistry major prepares students for professional careers in industrial chemistry, medicine, forensic science, and teaching, as well as for graduate studies.

We believe that God is revealed in both His Word and His world and that a study of both is necessary to develop a healthy, biblical worldview.

We teach students to study the natural world in order to critically evaluate the results of their observations about the world, gain a deeper understanding of God as he is revealed in the world, develop a sense of responsibility to the world, and appreciate aesthetically the wonders of the world.

## Program Outcomes:

Students completing a Bachelor of Arts degree in Chemistry will be able to:

- compare favorably in content knowledge with those students completing similar programs
- communicate scientific concepts orally and in writing
- conduct independent research by collecting and analyzing data and presenting the results in a formal presentation
- analyze bioethical issues from a Christian worldview

## Chemistry Major

Code	Title	Hours
<b>Required Chemistry Courses</b>		
CH 111	General Chemistry I	4
CH 112	General Chemistry II	4
CH 211	Organic Chemistry I	4
CH 212	Organic Chemistry II	4
CH 315	Analytical Chemistry	4
CH 320	Biochemistry	4
CH 340	Laboratory in Chemistry	1
CH 410	Chemistry Seminar	1
CH 411	Inorganic Chemistry	3
CH 412	Physical Chemistry of Biological Systems	4
CH 442	Undergraduate Research	1-4
<b>Required Supporting Courses</b>		
BE 474X	Introduction to Bioethics <sup>1</sup>	3
	or BE 476X Undergraduate Bioethics Institute	
MA 121	Calculus and Analytic Geometry I <sup>1</sup>	4
MA 122	Calculus and Analytic Geometry II	4
PHY 111	General Physics I	4
PHY 112	General Physics II	4
<b>Highly Recommended Courses:</b>		
BIO 111	General Biology	
BE 475X	Topics in Bioethics (or)	
	or BE 477 Undergraduate National Conference	
BE 478	Research Ethics	
MA 280X	Introductory Statistics	
PSY 140	Introduction to Psychology <sup>1</sup>	
<b>Total Hours</b>		<b>53-56</b>