



## **Health Science Major- Bachelor of Arts**

### **Program Description**

The major in Health Science combines a broad science literacy with emphasis on biology and chemistry, with knowledge of particular threats to human health from environmental, occupational, and life-style factors. This preparation builds understanding of the role in human health of communicable diseases, conditions of deprivation or excess, technological hazards, and societal stressors. The advanced student integrates this preparation with a study of individual and community strategies for protecting and enhancing human health.

### **Program Learning Outcomes**

Students who successfully complete this program will be prepared to:

1. Demonstrate a broad science literacy, especially in biology and chemistry, and to apply that knowledge to issues in human health;
2. Describe and evaluate key threats to health from a variety of factors such as environmental, dietary, occupational, genetic, microbial, psychological and social stressors, including situations of excess or inequity;
3. Apply the scientific method to investigate issues in human health, including gathering information and data, analyzing the material, and critically reporting on the work;
4. Integrate scientific, social, cultural, and values-based considerations in addressing human health issues ranging from the community to the global level;
5. Demonstrate multi-modal communication skills equal to the demands of an entry-level professional position in health science or of entry into graduate programs in the field; and
6. Employ standard technical skills, the ability to use general laboratory equipment, and follow research protocols.

Recommended curriculum for Health Science. Course sequence may vary if prerequisites are met or if students are looking to prepare for professional or graduate studies. Students must earn a C or better in all courses marked with an asterisk.

### Curriculum Map

<b>Freshman Year</b>		
<i>Fall Semester</i>		<i>Credits</i>
AMC 100	First Year Experience	3
ENG 103	Freshman Composition	3
BIO 103 (Exploration of Natural Sciences)	Gen Bio I / Lab	4
PSY 101	Intro to Psychology	3
(Exploration Gen Ed)	Western Culture Exploration	3
	<b>Semester Total</b>	<b>16</b>
<i>Spring Semester</i>		
ENG 104	Writing Through Literature	3
PHL 110	Introduction to Philosophy	3
SOC 201	Introduction to Sociology	3
*CHM 110	Introduction to Chemistry I / Lab	4
(Exploration Gen Ed)	Creativity and Imagination Exploration	3
	<b>Semester Total</b>	<b>16</b>
<b>Sophomore Year</b>		
<i>Fall Semester</i>		<i>Credits</i>
THE 210	Introduction to Theology	3
Global Language	Global Language I	3
*BIO 212	Anatomy & Physiology I / Lab	4
(Exploration Gen Ed)	Societies of the World	3
BUS 250 or MTH 228 (Exploration of Quantitative Reasoning)	Applied Statistics or Statistics for the Sciences	3
	<b>Semester Total</b>	<b>16</b>
<i>Spring Semester</i>		
Global Language	Global Language II	3
*BIO 213	Anatomy & Physiology II / Lab	4
PSY 217	Human Lifespan Development	3
Elective	Elective	3
Elective	Elective	3
	<b>Semester Total</b>	<b>16</b>

<b>Junior Year</b>		
<i>Fall Semester</i>		<i>Credits</i>
(Theology Exploration)	Catholic Intellectual Tradition	3
*BIO 222	Microbiology / Lab	4
BIO 406	Epidemiology (Global Dynamics)	3
Elective	Major Upper Level Elective I	3
	<b>Semester Total</b>	<b>13</b>
<i>Spring Semester</i>		<i>Credits</i>
BIO 402	Genetics	3
CHM 111	Introduction to Chemistry II / Lab	4
Elective	Elective	3
Elective	Major Upper Level Elective II	3
	<b>Semester Total</b>	<b>13</b>
<b>Senior Year</b>		
<i>Fall Semester</i>		
(Exploration U.S. in the World)	U.S. and World Exploration	3
Practical Experience/Elective	Internship or Elective	3
Elective	Major Upper Level Elective III	3
Elective	Elective	3
Elective	Elective	3
	<b>Semester Total</b>	<b>15</b>
<i>Spring Semester</i>		<i>Credits</i>
BIO 408	Toxicology	3
SCI 490	Senior Seminar (Writing for Career & Creativity)	3
Elective	Elective	3
Elective	Elective	3
Elective	Elective	3
	<b>Semester Total</b>	<b>15</b>
	<b>Total Program Credits</b>	<b>120</b>