



Health Science Major- Bachelor of Arts

Pre-Pharmacy Track (3 Year)

Program Description

Students who plan a career in pharmacy will require a doctoral degree from a school of pharmacy. The first step toward that goal is undergraduate study in the sciences that will prepare the student for success in graduate studies to come. Anna Maria College has an articulation agreement with the University of St. Joseph in West Hartford, CT, that allows students to complete a pre-pharmacy program in three years at Anna Maria College and then enter St. Joseph's for completion of their doctoral degree in pharmacy. Other students may choose to take four years at Anna Maria to prepare for graduate study in pharmacy at St. Joseph or at another school of pharmacy. The Bachelor degree in Health Science, Pre-Pharmacy track, is the correct major to choose at Anna Maria if a student plans to become a pharmacist. Science faculty advisors help students make sure their course of study includes any electives a particular graduate school may require.

The Health Science major provides the courses required to prepare for graduate study in pharmacy, and combines a broad science literacy, include 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 complete the Pre-Pharmacy track and earn a Bachelor of Arts in Health Science will have:

- Acquired the basic science literacy needed for entry level work in health science or to prepare for graduate study
- Learned to use investigative and analytical tools central to health research
- Developed skills that allow for evaluation of the complex contexts that shape human health
- The ability to apply values, ethics, and concepts of justice to human health concerns

Curriculum Map

Freshman Year		
<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
*CHM 110	Intro to Chemistry I / Lab	4
PSY 101	Intro to Psychology	3
	Semester Total	17
<i>Spring Semester</i>		
ENG 104	Writing Through Literature	3
PHL 110	Introduction to Philosophy	3
BUS 250 or MTH 228 (Exploration of Quantitative Reasoning)	Applied Statistics or Statistics for the Sciences	3
CHM 111	Introduction to Chemistry II / Lab	4
BIO 222	Microbiology / Lab	4
	Semester Total	17
<i>Summer Term (3 cr.)</i>		
Exploration Gen Ed	Western Culture Exploration	3
Sophomore Year		
<i>Fall Semester</i>		<i>Credits</i>
THE 210	Introduction to Theology	3
Global Language	Global Language I	3
Consortium	Organic Chemistry I	4
BIO 406	Epidemiology (Global Dynamics)	3
Elective	Elective	3
	Semester Total	16
<i>Spring Semester</i>		<i>Credits</i>
Global Language	Global Language II	3
Consortium	Organic Chemistry II	4
SOC 201	Intro to Sociology	3
PSY 217	Human Lifespan Development	3
PHY 201	College Physics I	4
	Semester Total	17
<i>Summer Term (6 cr.)</i>		
Exploration Gen Ed	Creativity and Imagination Exploration	3
Elective	Elective	3

Junior Year		
<i>Fall Semester</i>		<i>Credits</i>
THE 304	Catholic Worldview	3
MTH 221	Calculus I	3
ECO 200	Microeconomics	3
BIO 212	Anatomy & Physiology I / Lab	4
Elective	Elective	3
	Semester Total	16
<i>Spring Semester</i>		<i>Credits</i>
BIO 402	Genetics	3
(Exploration U.S. in the World)	U.S. and World Exploration	3
BIO 408	Toxicology	3
BIO 213	Anatomy & Physiology II / Lab	4
SCI 491	Senior Seminar (Writing for Career & Creativity)	3
	Semester Total	16
	Total AMC Credits	108
Senior Year	St. Joseph's first year courses taken to satisfy three upper level electives in the Health Science major	
704	Pharmaceutical Calc.	2
712	Proteins & Nucleic Acids	4
714	Metabolism of Carb., Lipids, Proteins & Amino acids	2
	Biostatistics & Lit. Evaluation	2
	Total	12
	Total AMC + St. Joseph's	120

Anna Maria degree awarded upon successful completion of these courses

Note: At AMC, a grade of C or higher is required in the following courses: CHM 110, BIO 212, BIO 213, BIO 222, but St. Joseph's expects a high GPA, especially in the sciences.