

# Pre-Health Concentration

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The Pre-Health concentration is designed to provide students with the necessary foundation for a career in the Health Professions. Current and transfer students may enroll, if eligible, after completing three full-time semesters of college level work. This designation will be on their official academic record as fulfillment of the requirements of the concentration. Students from any major and any School of the College may enter the Concentration.

To matriculate in the pre-health concentration, a student must earn an overall average GPA of 3.0 all courses with no more than two grades lower than a 3.0 in any of the Concentration courses. Students must have completed or be currently enrolled in Science 105, Introduction to Pre-Health Studies. Any Pre-Concentration student who, at any time, fails to meet all requirements concurrently will be dismissed from the concentration. To be in good standing in the concentration, students must take at least six credits in the concentration per academic year (including summer). Students who fail to do so will be dismissed from the concentration, but may reapply when this requirement is met. Although not a requirement of the major, all pre-requisites and co-requisites of the below courses must be taken.

As the pre-requisites for the various programs in the Health Professions can vary substantially, students may request, in advance, to substitute specific courses for some of the above requirements. Substitutions for any of the above courses will be considered on a case by case basis and must be approved in advance by the Pre-Health Advisor.

Individual requirements may be waived by the Pre-Health Advisor in special cases.

Students who have been dismissed from the Concentration may re-apply. To be successful, such students must demonstrate a greatly improved academic performance or profound extenuating circumstance.

## Pre-Health Concentration Requirements

All students enrolled in the Pre-Health Concentration must take the following courses:

SCI 105	Introduction to Pre-Health Studies	1
BIOL 111	General Biology I	4
BIOL 113	General Biology I Laboratory	0
BIOL 112	General Biology II	4
BIOL 114	General Biology II Laboratory	0
BIOL 217	Genetics	4
CHEM 101	General Chemistry I	3

CHEM 103	General Chemistry Laboratory I	1
CHEM 102	General Chemistry II	3
CHEM 104	General Chemistry Laboratory II	1
CHEM 319	Organic Chemistry I	3
CHEM 323	Organic Chemistry Laboratory I	2
CHEM 320	Organic Chemistry II	3
CHEM 324	Organic Chemistry Laboratory II	2
CHEM 433	Biochemistry I	3
or BIOL 323	Cellular Biochemistry/Physiology Laboratory	
PHYS 107	Introduction to Physics I	4
or PHYS 101	Physics I	
PHYS 197	Introduction to Physics I Lab	0
or PHYS 191	Physics I Lab	
PHYS 108	Introduction to Physics II	4
or PHYS 102	Physics II	
PHYS 198	Introduction to Physics II Lab	0
or PHYS 192	Physics II Lab	
MATH 155	Calculus for the Life Sciences I	3
or MATH 185	Calculus I	
MATH 156	Calculus for the Life Sciences II	3
or MATH 186	Calculus II	

Students pursuing a career in Physical Therapy, Physician Assistant, and other selected fields may substitute Anatomy and Physiology for Organic Chemistry, with the approval of the Pre-Health Advisor. The substitutions would be as follows:

1. Anatomy and Physiology I (**BIOL 207. Anatomy and Physiology I; BIOL 209. Anatomy And Physiology Lab I**) may replace Organic Chemistry I (**CHEM 319. Organic Chemistry I; CHEM 323. Organic Chemistry Laboratory I**).
2. Anatomy and Physiology II (**BIOL 208. Anatomy and Physiology II; BIOL 210. Anatomy And Physiology Lab II**) may replace Organic Chemistry II (**CHEM 320. Organic Chemistry II; CHEM 324. Organic Chemistry Laboratory II**).

The above substitutions are not appropriate for Post-Graduate study in the Medicine, Dentistry, Podiatry, Optometry, and Veterinary fields.

The following substitution does not require approval: **MATH 230. Elementary Statistics** or **PSYC 214. Statistics and Research Methods I** may replace **MATH 156. Calculus II**.

For additional information on Pre-Health programs at Manhattan College please go to the Center for Graduate School and Fellowship Advisement (<http://catalog.manhattan.edu/undergraduate/academicsupportandresources/fellowshipadvisement/>)