

The Nuts & Bolts of Pre-Health at SUNY Geneseo

Courses generally required to apply to various health profession graduate programs

The science courses listed here are the minimal major courses. Specific requirements may vary for different programs & seats are not guaranteed.

Pre-Dentistry – (based on the requirements of SUNY-Buffalo, DAT exam required)

1 year Biology	1 year Physics
2 years of Chemistry (General and Organic)	1 year English
1 semester of Biochemistry	

Pre-Medical – (some variation in areas of Mathematics and English, MCAT exam required).

1 semester Calculus	1 year Biology
2 years of Chemistry (General and Organic)	1 year English
1 semester of Intro Psychology*	1 year Physics
1 semester of Intro Biochemistry*	1 semester of Intro Sociology*

*course generally not specifically required, but MCAT covers this material

Pre-Optometry – (based on the requirements of SUNY-Optometry where a 3/4 program is available, OAT exam required)

1 year Biology	1 year Physics
2 years of Chemistry (General and Organic)	1 semester Calculus
1 semester Statistics	1 year English
1 year Social Science	1 semester Psychology

Pre-Podiatry – (minimum requirements, MCAT exam required)

1 year Biology	
2 years of Chemistry (General and Organic)	1 year English
1 semester of Intro Psychology*	1 year Physics
1 semester of Intro Biochemistry*	1 semester of Intro Sociology*

*course generally not specifically required, but MCAT covers this material

Pre-Chiropractic – (based on the requirements for NY Chiropractic College)

1 year Biology	1 semester of Psychology
15 credits of Humanities/Social Science	6 credits of English/communication
2 years of Chemistry (General and Organic)	1 year Physics

Pre-Pharmacy – (based on the requirements of SUNY-Buffalo, PCAT exam required)

1 year of Biology	1 semester General Physics
1 year of Calculus	1 semester of Statistics
2 years of Chemistry (General and Organic)	1 year of Anatomy & Physiology
1 semester of Microbiology	1 semester of Biochemistry

In addition, 2 semesters of writing skills and one course in social behavioral science

Pre-Physician Assistant – (minimum requirements; most schools require healthcare experience, some up to 2000 hours).

2 years Biology, including Microbiology	1 year Humanities/Social science
1 year of General Chemistry and 1 semester of Organic	1 semester Psychology
1 year English	1 semester Statistics or college level Math
1 year of Human Anatomy & Physiology	

Physical Therapy – (based on the general requirements for the Entry-Level Doctor of Physical Therapy at SUNY Upstate, where a 3/3 program is available). In addition to coursework, requirements include: first aid and CPR certification, GRE scores and volunteer and/or work experience in physical therapy.

1 year Biology	1 year Physics
1 year General Chemistry	1 year Anatomy and Physiology
1 semester of English (composition recommended)	1 semester of Statistics
1 semester of Psychology (Child Psychology or Developmental Psychology recommended)	
1 semester of Social Science	

Pre-Nursing – most accelerated programs offering a Bachelors in Nursing (BSN) require:

1 year of Biology	1 year General Chemistry
1 year Human Anatomy & Physiology	1 year English (composition and literature recommended)
1 semester of Microbiology	1 semester of Sociology
1-3 semesters of Developmental Psychology covering lifespan	1 semester of Statistics

Pre-Veterinary – (based on the requirements for College of Veterinary Medicine at Cornell University, extensive experience working with animals is essential in the selection process (>1000 hours including both large and small animal veterinary settings)

1 year English Composition or Writing Intensive Courses	1 year Biology
1 year General Chemistry	1 year Physics
1 semester of Organic with Lab	1 semester of Biochemistry (full year with lab preferred)
1 semester of Advanced Life Science Course	
(Suggested: Microbiology, Immunology, Physiology or Genetics)	

Subscribe to the pre-health list server: <http://mail.geneseo.edu/mailman/listinfo/prehealth-l>

Suggested Timeline

year

1	<ul style="list-style-type: none"> • Focus on your GPA • Plan out required coursework • Start clinical experiences (volunteer & shadow) • Get to know faculty for future recommendation letters • Read about the profession • Are you taking a gap year?
2	<ul style="list-style-type: none"> • Continue GPA, coursework & clinical experience • Continue to get to know faculty for letters of recommendation • Get leadership and/or research experience • Begin to get letters of recommendation in <u>Interfolio</u> • Have back-up plan in place if GPA is low
3	<ul style="list-style-type: none"> • Continue GPA, coursework, clinical, leadership & research • Personal statement • Arrange for letters of rec in Interfolio • Jan 1st Register with pre-health committee • Take MCAT late spring/VERY early summer • Mock Interview Study Day in May • Plan to apply EARLY summer between Jr. and Sr. year • Get ready for secondary apps • Have back-up plan if GPA, MCAT or experience is low
4	<ul style="list-style-type: none"> • Continue GPA, required courses, clinical, leadership & research • Go on Interviews • Have back-up plan if GPA, MCAT or experience is low <p>If taking a GAP year—</p> <ul style="list-style-type: none"> • Plan to apply EARLY summer after Sr. year • Take MCAT during Sr. year • Be strategic about your gap year. USE it to strengthen your application



Pre-health office offers.....

- Regular weekly office hours for one-on-one advising in all stages
- Several programs scheduled each semester
- Information sessions during all stages of the pre-health process