

The Nuts & Bolts of Pre-Health at SUNY Geneseo for Humanities majors

Courses generally required to apply to various health profession graduate programs

The science courses listed here are the minimal prerequisite courses. While many of these courses are not required in the humanities majors; there is some overlap with General Education requirements as indicated in red below.

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 (lecture and lab counts as one N/) 1 year Physics
2 years of Chemistry (General - counts as one N/ and Organic) 1 year English (INTD 105 is the Basic Communication requirement)
1 semester of Biochemistry

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

1 semester Calculus (count as R/) 1 year Biology (lecture and lab count as one N/)
2 years of Chemistry (General - counts as one N/ and Organic) 1 year English (INTD 105 is the Basic Communication requirement)
1 semester of Intro Psychology* 1 year Physics
1 semester of Intro Biochemistry* 1 semester of Intro Sociology* (counts as one S/)

*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 (lecture and lab counts as one N/) 1 year Physics
2 years of Chemistry (General - counts as one N/ and Organic) 1 semester Calculus (counts as R/)
1 semester Statistics 1 year English (INTD 105 is the Basic Communication requirement)
1 year Social Science (both of your S/ will count) 1 semester Psychology

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

1 year Biology (lecture and lab counts as one N/)
2 years of Chemistry (General - counts as one N/ and Organic) 1 year English (INTD 105 is the Basic Communication requirement)
1 semester of Intro Psychology* 1 year Physics
1 semester of Intro Biochemistry* 1 semester of Intro Sociology* (counts as one S/)

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

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

1 year Biology (lecture and lab counts as one N/) 1 semester of Psychology
15 credits of Humanities/Social Science (both S/, H/) 6 credits of English/communication (INTD 105 is the Basic Comm req.)
2 years of Chemistry (General - counts as one N/ and Organic) 1 year Physics (lecture and lab counts as one N/)

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

1 year Biology (lecture and lab counts as one N/) 1 semester General Physics
1 semester Calculus (counts as R/) 1 semester Statistics
2 years of Chemistry (General - counts as one N/ 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 (INTD 105 is the Basic Communication requirement and an S/)

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

2 years Biology, including Microbiology (General Bio lecture and lab count as one N/)
1 year of General Chemistry (N/) and 1 semester of Organic 1 year Humanities/Social science (H/ and S/)
1 year English (INTD 105 us the Basic Comm req.) 1 semester Psychology
1 year of Anatomy & Physiology 1 semester Statistics or college level Math (counts as R/)

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 (lecture and lab counts as one N/) 1 year Physics
1 year General Chemistry (lecture and lab counts as one N/) 1 year of Anatomy & Physiology
1 semester of Social Science (counts as one S/) 1 semester Statistics (counts as R/)
1 semester of English -- comp. recommended (INTD 105 is a Basic Communication requirement)
1 semester of Psychology (Child Psychology or Developmental Psychology recommended) (counts for one S/)

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

- 1 year Biology (lecture and lab counts as one N/)
- 1 year of Anatomy & Physiology
- 1 semester of Microbiology
- 1-3 semesters of Dev. Psych. covering lifespan (counts as S/)
- 1 year General Chemistry (lecture and lab counts as one N/)
- 1 year English (INTD 105 is the Basic Communication requirement)
- 1 semester of Sociology (counts as one S/)
- 1 semester Statistics (counts as one R/)

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 (INTD 105 is the Basic Comm requirement)
- 1 year General Chemistry (lecture and lab counts as one N/)
- 1 semester of Organic with Lab
- 1 semester of Advanced Life Science Course (Suggested: Microbiology, Immunology, Physiology or Genetics)
- 1 year Biology (lecture and lab counts as one N/)
- 1 year Physics
- 1 semester of Biochemistry (full year with lab preferred)

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 for all stages of the pre-health process