

# The Nuts & Bolts of Pre-Health at SUNY Geneseo for Sociomedical Science majors

*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 (BIOL 116/117/119) 1 year Physics  
2 years of Chemistry (General and Organic) 1 year English (INTD 105 & ENGL 101 or 427)  
1 semester of Biochemistry

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

1 semester Calculus 1 year Biology (BIOL 116/117/119)  
2 years of Chemistry (General and Organic) 1 year English (INTD 105 & ENGL 101 or 427)  
1 semester of Intro Psychology\* (PSYC 100) 1 year Physics  
1 semester of Intro Biochemistry\* 1 semester of Intro Sociology\* (SOCL 100)  
\*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 (BIOL 116/117/119) 1 year Physics  
2 years of Chemistry (General and Organic) 1 semester Calculus  
1 semester Statistics (see stats requirement options) 1 year English (INTD 105 & ENGL 101 or 427)  
1 year Social Science (ANTH 202 & 302) 1 semester Psychology (PSYC 100)

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

1 year Biology (BIOL 116/117/119)  
2 years of Chemistry (General and Organic) 1 year English (INTD 105 & ENGL 101 or 427)  
1 semester of Intro Psychology\* (PSYC 100) 1 year Physics  
1 semester of Intro Biochemistry\* 1 semester of Intro Sociology\* (SOCL 100)  
\*course generally not specifically required, but MCAT covers this material

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

1 year Biology (BIOL 116/117/119) 1 semester of Psychology (PSYC 100)  
15 credits of Humanities/Social Science 6 credits of English/communication (INTD 105 & ENGL 101 or 427)  
2 years of Chemistry (General and Organic) 1 year Physics

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

1 year Biology (BIOL 116/117/119) 1 semester General Physics  
1 year of Calculus 1 semester Statistics (see stats requirement options)  
2 years of Chemistry (General and Organic) 1 year of Anatomy & Physiology (BIOL 365 & 366)  
1 semester of Microbiology (BIOL 349) 1 semester of Biochemistry  
In addition, 2 semesters of writing skills and one course in social behavioral science (INTD 105, ENGL 101 or 427, and ANTH 302)

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

2 years Biology, including Microbiology (BIOL 116, 117, 119, 349, plus one additional BIOL course needed)  
1 year of General Chemistry and 1 semester of Organic 1 year Humanities/Social science (ANTH 202 & 302)  
1 year English (INTD 105 & ENGL 101 or 427) 1 semester Psychology (PSYC 100)  
1 year of Anatomy & Physiology (BIOL 365 & 366) 1 semester Statistics or college level Math (see stats req. option)

**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 (BIOL 116/117/119) 1 year Physics  
1 year General Chemistry 1 year of Anatomy & Physiology (BIOL 365 & 366)  
1 semester of English (comp. recommended) (INTD 105) 1 semester Statistics (see stats requirement options)  
1 semester of Psychology (Child Psychology or Developmental Psychology recommended)  
1 semester of Social Science (ANTH 202)

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

1 year Biology (BIOL 116/117/119) 1 year General Chemistry  
1 year of Anatomy & Physiology (BIOL 365 & 366) 1 year English (INTD 105 & ENGL 101 or 427)  
1 semester of Microbiology (BIOL 349) 1 semester of Sociology (SOCL 100)  
1-3 semesters of Developmental Psychology covering lifespan 1 semester Statistics (see stats req. option)

**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 & ENGL 101 or 427)

1 year Biology (BIOL 116/117/119)

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 (BIOL 349), Immunology, Physiology or Genetics)

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

## Suggested Timeline

year

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



## 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