

# 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

1

- 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

- 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 Interfolio
- Have back-up plan in place if GPA is low

3

- Continue GPA, coursework, clinical, leadership & research
- Personal statement
- Arrange for letters of rec in Interfolio
- Jan 1<sup>st</sup> 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

- Continue GPA, required courses, clinical, leadership & research
- Go on Interviews
- Have back-up plan if GPA, MCAT or experience is low

If taking a GAP year—

- 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