

**Pre Health, Veterinary and Secondary Ed. Requirements (Revised 6/27/2016)**

**Pre-dentistry (based on the requirements of SUNY-Buffalo where a 3/4 program is available Advisor: Dr. O'Donnell)**

1 Year Biology  
2 Years of Chemistry, General and Organic

1 Year Physics  
1 Year English

**Pre-medical (based on the requirements of most medical schools, some variation, in areas of Mathematics and English). A 3/4 program between Geneseo and the New York College of Osteopathic Medicine.**

**Advisors: Drs. J. Ballard, J. Boiani, G. Briggs, R. O'Donnell and W. Pogozelski**

1 Year Biology  
2 Years of Chemistry, General and Organic  
1 Year English  
1 semester of Intro Biochemistry

1 Year Physics  
1 Semester Calculus  
1 semester of Intro Psych.  
1 semester of Intro Socl.

**Pre-optometry (based on the requirements of SUNY-Optometry where a 3/4 program is available)**

**Advisor: Dr. O'Donnell**

1 Year Biology  
2 Years of Chemistry, General and Organic  
1 Semester Statistics  
1 Year Social Science

1 Year Physics  
1 Semester Calculus  
1 Year English  
1 Semester Psychology

**Pre-podiatry (minimum requirements) Advisor: Dr. O'Donnell**

1 Year Biology  
2 Years of Chemistry, General and Organic

1 Year Physics  
1 Year English

**Pre-Chiropractic (based on the requirements for NY Chiropractic College, tends to vary for each school).**

**Advisor: Dr. Lewis**

1 Year Biology  
15 credits of Humanities/Social Science  
2 Years of Chemistry, General and Organic

1 Semester of Psychology  
6 credits of English/communications  
1 Year Physics

**Graduate Study (varies for each program and specialty) Advisor: Dr. Hannam**

**Pre-Pharmacy (based on the requirements of SUNY-Buffalo, tends to vary for each school). Advisor: Dr. Militello**

1 Year Biology  
2 Semesters of Calculus  
2 Years of Chemistry, General and Organic  
1 Semester of Microbiology

1 Semester General Physics  
1 Semester of statistical methods  
1 Year of anatomy/physiology  
1 semester of Biochemistry

In addition, 2 semesters of Writing Skills and one course in social behavioral science

**Pre-Physician Assistant (minimum requirements, tends to vary for each school; most schools require health care experience, some up to 2000 hours).**

**Advisor: Dr. O'Donnell**

1 Year Biology  
1 Year of Chemistry  
1 Year English  
Microbiology and Anatomy and Physiology I and II are required by many schools

1 Year Humanities/Social science  
1 Semester Psychology  
1 Semester Statistics or College Level Math

**Please subscribe to the Premed listserver, which will keep you updated on important meetings, seminars and dates regarding professional school applications:**

• To log on to the premed listserver go to the following site:

<http://mail.geneseo.edu/mailman/listinfo/prehealth-1>

There also is a website with useful information at the following address:

<http://www.geneseo.edu/premed>

**Pre-Physical Therapy (based on the general requirements for the Entry-Level Doctor of Physical Therapy at SUNY Upstate, tends to vary for each school). The requirements at Upstate include a baccalaureate degree from an accredited college or university including completion of 40 credits of prerequisite course work, first aid and CPR certification, GRE scores and volunteer or work experience in physical therapy.** Geneseo and Upstate have an established 3+3 program. The advantage of 3+3 is that it allows a student to complete both an undergraduate and a doctoral degree in six years rather than seven years. The 3+3 DPT program requires three years at Geneseo and three years of study at Upstate. Students transfer to Upstate after three years of college. The first year at Upstate in the DPT program will count for both the fourth year of undergraduate and the first year of graduate study. Upon completion of their first year at Upstate, students receive a Bachelor's Degree in Biology from Geneseo. Upon successful completion of an additional two years at Upstate in the entry level DPT program, students will be awarded a DPT degree from SUNY Upstate Medical University.

**Advisor: Dr. Lewis**

General Biology I and II with laboratory (8 hours)      Anatomy and Physiology I and II (8 hours)  
 General Physics I and II with laboratories (8 hours)      General Chemistry I and II with labs (8 hours)  
 English (composition recommended) (3 hours)      Statistics (3 hours)  
 Psychology (Child Psychology or Developmental Psychology recommended) (3 hours) Social  
 Science (3 hours)

**Pre-Veterinary (based on the requirements for College of Veterinary Medicine at Cornell University, tends to vary for each school, but extensive experience working with animals is essential in the selection process (>1000 hours and the hours must include both large and small animal veterinary settings)).**

**Advisor: Dr. Susan Bandoni Muench**

- Full Year of English Composition or Writing Intensive Courses
- Full Year of Biology with Labs
- Full Year of Chemistry with Labs
- Full Year of Physics with Lab
- Semester of Organic Chemistry (Lab recommended)
- Semester of Biochemistry (4 credits) (full academic year preferred) (Lab recommended)
- Semester of Advanced Life Science Course (Suggested courses include: Microbiology (e.g. general or bacteriology); Immunology (e.g. basic immunology); Physiology (animal/comparative physiology, bacterial physiology, neurophysiology, cell Physiology/histology, cell biology, endocrinology, developmental biology); Genetics (genetics, molecular genetics, developmental genetics, bacterial genetics, or genomics).

**Pre-Nursing**

**Advisor: Dr. Jani Lewis**

The prerequisites for *most* accelerated programs offering a Bachelors in Nursing (BSN) are:

General Biology, I & II	8 credits including 2 credits of labs
General Chemistry, I & II	8 credits including 2 credits of labs
Human Anatomy & Physiology, I & II	8 credits including 2 credits of labs.
Microbiology	4 credits including 1 credit of labs
Nutrition	3 credits
English (composition recommended)	3 credits and Engl. Literature 3 credits
Social Science including:	
Intro. to Psychology	3 credits      Intro to Sociology 3 credits
Human Growth and Development or Developmental Psychology covering the lifespan*	3* credits
Other Social Science courses	6 credits
Statistics	3 credits

\* SUNY Geneseo does not offer a Human Growth and Development or Developmental Psychology course but does offer the equivalent in 3 courses: Psyc 215, Child; Psyc 216 Adolescent; and Psyc 217 Adult Development and Aging. Psyc 100 is a prerequisite for all of these courses

**Biology/Secondary Education Students** complete either a **B.A.** or **B.S.** in Biology and the coursework for initial certification in Adolescence Education. Students follow the sequence of courses listed for the biology major. In the spring of their freshmen or sophomore year (if they plan to student teach in their ninth semester) students apply for admission to the School of Education. Admission requires that students have a cumulative G.P.A. of 2.75 and 15 hours of approved service learning. Students planning on student teaching in the ninth semester follow the same course sequence listed in the Adolescence Education advising guide but a year later. Note, once you begin the education courses the sequence should not be interrupted.

**Advisors: Dr. Robert Feissner**