

Resolution for Proposal for A Minor in Pre-Health Professions

WHEREAS, the Department of Biology proposed a **Minor in Pre-Health Professions**, and

WHEREAS, the curriculum of the proposed minor includes most common pre-requisites for professional programs in a health-related field and thus would help students prepare for careers in a growing healthcare field,

WHEREAS, the proposed minor consists of two core courses in Biology and four elective courses in natural or social science fields, including Mathematics, Public Health, Chemistry/Physics, Psychology, Sociology, and Biology

WHEREAS, all departments that would contribute a course/courses expressed their support for the proposed minor,

WHEREAS, the proposed minor is built on existing courses and thus requires no additional resources,

THEREFORE, BE IT RESOLVED that the Faculty Senate approve the proposed **Minor in Pre-Health Professions**.

Submitted by Curriculum and Academic Planning Committee (CAP), May 8, 2020

The Proposal approved by CAP on May 8, 2020

[CAP Membership]

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Appendix I. Proposal for a Minor

Proposal for Pre Health Professions Minor

- **Purpose** What knowledge and/or skills is the minor designed to confer? How will these benefit students?

This minor can help students complete many, but not necessarily all, of the most common pre-requisites for most of today's Health Professions Programs and can benefit any student interested in a career in the Health Professions, regardless of their academic major.

- **Demand** Which students are likely to take this minor? What might it allow them to do upon graduation?

Students in any academic major who want to pursue a career in the Health Professions can benefit from the Pre Health Professions Minor. It will document their interest in a career in the Health Professions and allow them to take many of the pre requisite courses for the graduate programs they plan to apply to. Upon graduation they hopefully will be more prepared to apply to these graduate programs and after completion of those programs they may begin their careers in the health professions.

- **Curriculum** Which existing courses will be used to support the new minor? What new courses will be developed?

All courses used to support this minor are currently existing courses and are listed by department in the attached proposal. No new courses will need to be developed at this time.

- **Instruction** Who will teach the courses in the new minor (i.e., which faculty members, from which departments)?

Since the courses are currently existing courses, it is anticipated that the faculty of the respective departments will teach the courses.

- **Resources** What existing curricular resources (facilities, equipment) will be devoted to the new minor? What additional curricular resources might be needed before the program can be offered?

Since all courses are currently existing courses it is not anticipated that any new facilities or equipment will need to be devoted to this minor, nor will any other additional curricular resources be needed before the program can be offered.

- **Administration** Which department(s) and/or faculty member(s) will have responsibility for advising students in the new minor?

This minor is being proposed by the Biological Sciences Department and as such the faculty of the Biological Science Department and the members of the Health Professions Advisory Committee will advise students in this minor.

Pre Health Professions Minor

Many students graduating from SUNY Old Westbury aspire to have careers in the Health Professions. They may want to become physicians, dentists, podiatrists, optometrists, veterinarians, chiropractors, physician assistants, physical therapists, occupational therapists, respiratory therapists, nurses or any of the many other members of the modern health care team. The career path to achieve those goals generally involves post graduate education, clinical training and graduation from an appropriate professional graduate program. Entrance into these programs is now more competitive than ever. There are a variety of courses that are pre-requisites for acceptance to these programs which can differ from field to field and from program to program. Students who want to apply to programs leading to these careers can complete any major as long as they successfully complete the appropriate pre-requisite courses for the programs they are interested in. This minor can help students complete many, but not necessarily all, of the most common pre-requisites for most of today's Health Professions Programs and can benefit any student interested in a career in the Health Professions, regardless of their academic major. Students working towards this minor are strongly encouraged to speak with a Health Professions Advisor to determine which of the offered elective courses will be most beneficial both for the Pre Health Professions Minor and when applying to graduate programs for their chosen career.

Requirements:

All students are required to complete a minimum of 6 courses, totaling 24 or more credits. A minimum of 16 credits must be taken outside of the courses required for the student's academic major. Up to 2 courses may be transferred from another institution for purposes of completing the Minor. Completion of the Pre Health Professions minor requires a minimum of a 2.0 grade point average in courses applied to the minor, and only grades of "C" or higher may be applied to the minor.

A. Required Core Courses;

All students must take one of the following sets of Core Courses. Students can opt to take both sets of courses and the other 2 courses can count towards Elective Courses;

Either

BS2400/BS2401	Basic Biology 1 Lecture and Lab
AND BS2410/BS2411	Basic Biology 2 Lecture and Lab

and/or

BS2300/BS2301	Human Anatomy and Physiology 1 Lecture and Lab
AND BS2310/BS2311	Human Anatomy and Physiology 2 Lecture and Lab

B.Elective Courses;

All students must take a minimum of 16 credits of the following elective courses.
No course can be counted for both a required course and an elective course.

Biological Sciences

Maximum of 2 of the following may be applied as electives for the minor.

BS2300/BS2301	Human Anatomy and Physiology 1 Lecture and Lab
BS2310/BS2311	Human Anatomy and Physiology 2 Lecture and Lab
BS2400/BS2401	Basic Biology 1 Lecture and Lab
BS2410/BS2411	Basic Biology 2 Lecture and Lab
BS4420	Microbiology Lecture and Lab
BS4460	Genetics Lecture and Lab
BS3400	Vertebrate Physiology Lecture and Lab
BS3520	Comparative Anatomy Lecture and Lab

Mathematics

Maximum of 1 of the following may be applied as an elective for the minor.

MA2000	Applied Statistics
MA2090	Precalculus
MA2310	Calc & Analytic Geometry I

Chemistry/Physics

Maximum of 2 of the following may be applied as electives for the minor.

CP2120/CP2121	Principles of Chemistry 1 Lecture and Lab
CP2130/CP2131	Principles of Chemistry 2 Lecture and Lab
CP3300/CP3302	Organic Chemistry 1 Lecture and Lab
CP3310/CP3312	Organic Chemistry 2 Lecture and Lab
CP4490 Or CP4510	Biochemistry for Life Science Lecture Biochemistry 1 Lecture
CP4520	Biochemistry Lab
CP2220/CP2221 Or CP2240/CP2241	Structure of Physics 1 Lecture and Lab Or General Physics 1 Lecture and Lab
CP2230/CP2231 Or CP2250/CP2251	Structure of Physics 2 Lecture and Lab Or General Physics 2 Lecture and Lab

Psychology

Maximum of 1 of the following may be applied as an elective for the minor.

PY2010	Introduction to Psychology
PY3310	Abnormal Human Behavior
PY3215	Foundations of Child Development
PY3230	Adulthood and Aging
PY4230	Psychobiology of Aging

Sociology

Maximum of 1 of the following may be applied as an elective for the minor.

SY1500	Introduction to Sociology
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Public Health

Maximum of 1 of the following may be applied as an elective for the minor.

PH4670	Biostatistics
PH4800	Epidemiology

Common Pre-Reqs for Health Professions Programs

Please Note: Listed below are common, but not all, pre-reqs for some of the most popular types of health professions programs. Students must check each individual program they plan to apply to for the most up to date listings. Students are strongly advised to speak with a Health Professions Advisor when deciding which courses they should take to fulfill the requirements of this minor and the pre-reqs for the programs they are applying to.

	MD/DO	PA	Nursing	PT/OT
Biology 1 Lecture and Lab	*	Recomm		
Biology 2 Lecture and Lab	*	Recomm		
Principles of Chemistry 1 Lecture and Lab	*	*	*	*
Principles of Chemistry 2 Lecture and Lab	*	*	*	*
Organic Chemistry 1 Lecture and Lab	*	Recomm		
Organic Chemistry 2 Lecture and Lab	*	Recomm		
Biochemistry for Life Sciences Lecture	*	Recomm		
Structure of Physics 1 Lecture and Lab or General Physics 1 Lecture and Lab	*			*
Structure of Physics 2 Lecture and Lab or General Physics 2 Lecture and Lab	*			*
Human A&P 1 Lecture and Lab		*	*	*
Human A&P 2 Lecture and Lab		*	*	*
Microbiology	Recomm	*	*	
Genetics	Recomm	Recomm	Recomm	
Vertebrate Physiology	Recomm			
Comparative Anatomy	Recomm			
Intro to Psychology	*	*	*	*
Abnormal or Lifespan Psychology		*	*	*
Statistics or Biostatistics	*	*	*	*
College Algebra				
Pre Calculus	*			
Calculus	*			
English	*	*	*	*
Intro to Sociology	*	*	*	*
Additional Sociology and/or Humanities	*	Recomm	Recomm	Recomm

* - Designates a Course that is a common pre-requisite for many programs in that profession