

Post- Bacc Pre-Health Curriculum:

The post-bacc curriculum offers 8 pre-health options that meet the admissions prerequisites needed to apply to medical school, dental school, and other health-related professional schools. When applying to the program, students will select a specific curriculum option that will align with their career of interest. The 8 curriculum tracks are outlined below and include the following: A) Medical/Dental B) Physical Therapy, C) Physician Assistant, D) Occupational Therapy, E) Pharmacy, F) Podiatry, G) Veterinary Medicine or H) Optometry. The program can be customized to fit the individual needs of the student and can be completed at an accelerated pace of approximately 1-2 years. It is important to keep in mind that graduate admissions criteria vary, and some programs require that prerequisites should be completed within a certain time frame.

A) Post-Baccalaureate Pre-Health Program Requirements : Medical (MD/DO) / Dental (DDS/DMD) Option

<u>Admissions Prerequisite Courses for Medical and Dental Schools:</u>	<u># of Credits:</u>
Biology 1300: General Biology I (Lecture/Lab Combined)	4
Biology 1400: General Biology II (Lecture/Lab Combined)**	4
Chemistry 1083: General Chemistry I (Lecture/Lab Combined)**	4
Chemistry 1084: General Chemistry II (Lecture/Lab Combined)	4
Chemistry 2581: Organic Chemistry I (Lecture)	3
Chemistry 2581L: Organic Chemistry I (Lab)	1
Chem 2582: Organic Chemistry II (Lecture)	3
Chem 2582L: Organic Chemistry II (Lab)	1
English 1030: College Composition	3
English 2403: World Literature	3
Phys 2091: General Physics I (Lecture/Lab Combined)	4
Phys 2092: General Physics II (Lecture/Lab Combined)	4
Math 1016: Statistics	4
Math 2415: Calculus I	4
<u>Highly Recommended Courses (Not Required for Completion of Program /Optional):</u>	
BCHM 4115: Biochemistry (Lecture) ***	3

BCHM 4115 L: Biochemistry (Lab)***	1
Bio 3403: Anatomy and Physiology I (Lecture/Lab Combined)*** OR Bio 2403: Anatomy and Physiology I (Lecture/Lab Combined)***	4
Bio 3404: Anatomy and Physiology II (Lecture/Lab Combined) *** OR Bio 2404: Anatomy and Physiology II (Lecture/Lab Combined)***	4
Bio 3709: Genetics (Lecture/Lab Combined) ***	4
Bio 3315: Microbiology (Lecture) ***	3
Bio 3315 L: Microbiology (Lab)	1
At least 2-3 Humanities/Social Sciences courses (including: Psychology 1000: General Psychology & Sociology 1000: Introduction to Sociology) ***	6-9
Choose one of the following: Bio1996: Research, Chem1996: Research, Biology 3900, Bio 4961: Independent Research, Bio 4963:Independent Research or equivalent ***	1-3 credits
Total # of Required Credits:	46
<ul style="list-style-type: none"> • <i>Please note important information regarding Medical and Dental Program Requirements:</i> Medical and Dental School admissions requirements vary. The list above represents the general requirements listed by AAMC.org and ADEA.org. • Some medical and dental schools prefer that students take prerequisite courses in person but are willing to accept online coursework due to the pandemic. This policy varies from school to school and is subject to change. (https://www.uab.edu/medicine/home/admissions/updates & https://students-residents.aamc.org/media/6991/download, Accessed October 4, 2021) • Also take note that all courses indicated above must be taken within ten years of application to Medical and or Dental School. Some schools recommend that biology prerequisites are taken within five years of application to the program. (https://www.vagelos.columbia.edu/education/academic-programs/md-program/admissions/apply/application-requirements ,Accessed March 11, 2022. • For a list of Program specific requirements, please visit the graduate school's specific website and /or AAMC.org and ADEA.org. 	
<p><i>**Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.</i></p>	
<p><i>***Medical and Dental schools may recommend additional courses to prepare students for the graduate school curriculum, and to better prepare students for The Medical College Admissions Test (MCAT) and Dental Admissions Test (DAT). Some medical and dental schools may not accept prerequisites in the form of Advanced Placement (AP) credits or community college credits. For example, Tufts University and Boston University explicitly state that prerequisite courses completed at a four-year college are preferred. If prerequisites were completed at a community college, or if AP credit was awarded, additional upper-level coursework may be required to fulfill admissions criteria. (https://www.bu.edu/dental/admissions/dmd/req/ & https://dental.tufts.edu/academics/dmd-program/dmd-program-application ,Accessed October 4, 2021).</i></p>	

B) Post-Baccalaureate Pre-Health Program Requirements: Doctor of Physical Therapy (DPT) Option

<u>Admissions Prerequisite Courses for Physical Therapy Programs:</u>	<u># of credits</u>
Biology 1300: General Biology I (Lecture & Lab combined)	4
Biology 1400: General Biology II (Lecture & Lab combined)*	4
Chemistry 1083: General Chemistry I (Lecture & Lab combined)*	4
Chemistry 1084: General Chemistry II (Lecture & Lab combined)	4
English 1030: College Composition	3
Psychology 1000: General Psychology	3
Math 1016: Statistics	3
Phys 2091: General Physics I (Lecture & Lab combined)	4
Phys 2092: General Physics II (Lecture & Lab combined)	4
Bio 2403: Anatomy and Physiology I (Lecture & Lab combined)	4
Bio 2404: Anatomy and Physiology II (Lecture and Lab combined)	4
Psy 3540: Abnormal Psychology (3 credits) OR Psy 3110: Lifespan Developmental Psychology (3 credits)	3
Total # of Credits:	44
*Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.	
<u>Please note the following DPT Program information:</u>	
<ul style="list-style-type: none"> • Some Physical Therapy schools prefer that students take prerequisite courses in person but are willing to accept online coursework due to the pandemic. This policy varies from school to school and is subject to change. (https://ptrehab.ucsf.edu/frequently-asked-questions-AP14, Accessed April 19, 2022). • According to the Kean DPT Program, no grade below C and no more than 2 attempts on any prerequisite course will be accepted for fulfillment of a listed prerequisite. Multiple attempts for a given prerequisite course is not recommended. (https://www.kean.edu/academics/nathan-weiss-graduate-college/admission-requirements-dpt, Accessed March 11, 2022). • Graduate school admissions requirements and standards vary. Pre-requisites indicated above are based on entrance into Kean DPT Program. For a comprehensive list of Physical Therapy Program prerequisites by Institution, please visit PTCAS.org. 	

C) Post-Baccalaureate Pre-Health Program Requirements: Occupational Therapy (OT) Option

Admissions Prerequisite Courses for Occupational Therapy Programs:	# of Credits
Psychology 1000: General Psychology	3
Psychology 3110: Life Span Developmental Psychology	3
Psychology 3200: Psychological Statistics	3
Occupational Therapy 2400: Introduction to Occupational Therapy	3
Psychology 3520: Abnormal Psychology	3
Sociology 1000: Intro to Sociology OR Anthropology 1800: Cultural Anthropology	3
Bio 2403: Anatomy and Physiology I Lecture and Lab	4
Bio 2404: Anatomy and Physiology II Lecture and Lab	4
Biology 1300: General Biology I (Lecture and Lab Combined) or Biology 1000: Principles of Biology I (Lecture & Lab combined)	4
Total # of Credits:	30
<p>Kean OT program requires that prerequisite courses must be completed with a grade of B or better and within five years of application to the program. Also, a minimum undergraduate GPA of 3.0 is required for program admission.</p> <p>(https://www.kean.edu/academics/nathan-weiss-graduate-college/occupational-therapy-ms-admission-requirements Accessed March 11, 2022)</p>	
<ul style="list-style-type: none"> • Please note: Graduate school admissions requirements and standards vary. Pre-requisites indicated above are based on entrance into Kean Occupational Therapy Program. For additional details regarding Kean OT program admissions criteria, please visit the Kean OT Admissions website at: https://www.kean.edu/academics/nathan-weiss-graduate-college/occupational-therapy-ms-admission-requirements. • Some graduate school programs prefer that students take prerequisite courses in person but are willing to accept online coursework due to the pandemic. This policy varies from school to school and is subject to change. Please check with the admissions committees and your advisor prior to complete prerequisite courses. Some schools require you to identify all of your courses with the admissions committee to ensure the prerequisite meets the program requirement. (https://www.vagelos.columbia.edu/education/academic-programs/programs-occupational-therapy/master-science/admissions/admissions-requirements, Accessed April 19, 2022). • For a comprehensive list of Occupational Therapy Program prerequisites by Institution, please visit AOTA.org. 	

D) Post-Baccalaureate Pre-Health Program Requirements: Physician Assistant Studies (PA) Option

<u>Admissions Prerequisite Courses for Physician Assistant Studies Programs:</u>	<u># of Credits</u>
Bio 1300: General Biology I (Lecture & Lab combined)	4
Bio 1400: General Biology II (Lecture & Lab combined)*	4
Chem 1083: General Chemistry I (Lecture & Lab combined)*	4
Chem 1084: General Chemistry II (Lecture & Lab combined)	4
English 1030: College Composition	3
Psychology 1000: General Psychology	3
Math 1016: Statistics or Math 2415: Calculus I	3-4
Bio 3403: Anatomy and Physiology I (Lecture & Lab combined) <u>or</u> Bio 2403: Anatomy and Physiology I (Lecture & Lab combined)	4
Bio 3404: Anatomy and Physiology II (Lecture & Lab combined) <u>or</u> Bio 2404: Anatomy and Physiology II (Lecture & Lab combined)	4
Bio 3315: Microbiology Lecture	3
Bio 3315L: Microbiology Lab	1
Chemistry 2581: Organic Chemistry I (Lecture)	3
Chemistry 2581L: Organic Chemistry I (Lab)	1
Chem 2582: Organic Chemistry II (Lecture)	3
Chem 2582L: Organic Chemistry II (Lab)	1
BCHM 4115: Biochemistry Lecture	3
Bio 3000: Medical Terminology	3
<u>Highly Recommended Courses (Not Required for Completion of Program/Optional):</u>	
<i>1 Upper-Level Science Class which can be selected from the following list: Bio 3709 Genetics Lecture and Lab (4 credits), Bio 3260: Histology Lecture & Lab (4 credits), Bio 3416: Immunology Lecture (3 Credits) and Bio 4316L: Immunology Lab (1 credit)</i>	3-4
BCHM 4115 L: Biochemistry (Lab)	1
Total # of credits:	51

<p><i>*Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.</i></p>	
<p><i>Please note the following about Physician Assistant (PA) Graduate Programs:</i></p> <ul style="list-style-type: none"> • Graduate school admissions requirements and standards vary. For a comprehensive list of Physician Assistant Studies Program prerequisites by Institution, please visit AAPA.org. • Some PA Programs may no longer accept online prerequisite courses. According to the Kean PA Program, courses completed after Summer 2021 must be completed on campus. However, the Medical Terminology course may be completed as an online or in person course. (https://www.kean.edu/academics/nathan-weiss-graduate-college/school-physician-assistant-studies/physician-assistant-0. Accessed October 4, 2021). • Kean PA Program requires a prerequisite minimum GPA of 3.0 on a 4.0 scale. (https://www.kean.edu/academics/nathan-weiss-graduate-college/school-physician-assistant-studies/physician-assistant-0. Accessed March 29, 2022). 	

E) Post-Baccalaureate Pre-Health Program Requirements: Doctor of Pharmacy (PharmD) Option

<u>Admissions Prerequisite Courses for Pharmacy School:</u>	<u># of Credits:</u>
Biology 1300: General Biology I (Lecture & Lab combined)	4
Biology 1400: General Biology II (Lecture & Lab combined)*	4
Chem 1083: General Chemistry I (Lecture & Lab combined)*	4
Chem 1084: General Chemistry II (Lecture & Lab combined)	4
Chem2581: Organic Chemistry I Lecture	3
Chem2581L: Organic Chemistry I Lab	1
Chem2582: Organic Chemistry II Lecture	3
Chem2582L: Organic Chemistry II Lab	1
BCHM 4115: Biochemistry (Lecture) **	3
BCHM 4115 L: Biochemistry (Lab)**	1
Bio 2403: Anatomy and Physiology I (Lecture & Lab combined)	4
Bio 2404: Anatomy and Physiology II (Lecture & Lab combined)	4
Physics 2091: General Physics I (Lecture & Lab combined)	4
Physics 2092: General Physics II (Lecture & Lab combined)	4
Math 2415: Calculus I	4

Math 1016: Statistics or Bio 3835: Biostatistics	3
ECO 1020: Principles of Economics	3
English 1030: College Composition	3
Eng2403: World Literature or another college level writing course	3
Psychology 1000: General Psychology**	3
4 Humanities/Social Sciences courses which should include Sociology 1000: Introduction to Sociology**	12
Highly Recommended but NOT required for Program Completion:	
Choose one of the following: Bio1996: Research, Chem1996: Research, Biology 3900, Bio 4961: Independent Research, Bio 4963: Independent Research or equivalent	1-3
Total # of Credits needed to complete program (minimum):	63
<i>*Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.</i>	
<i>**Note: Graduate school admissions requirements and standards vary. For a comprehensive list of Doctor of Pharmacy Program prerequisites by Institution, please visit AACP.org and Pharmcas.org. Some Pharmacy Schools also prefer that students take prerequisite courses in person but are willing to accept some online coursework due to the pandemic. This policy varies from school to school and is subject to change. (https://pharmacy.pacific.edu/pharmacy/pharmd/prerequisites Accessed April 19, 2022)</i>	

F) Post-Baccalaureate Pre-Health Program Requirements: Doctor of Podiatric Medicine (DPM) Option

<u>Admissions Prerequisite Courses for Podiatry School:</u>	<u># of Credits:</u>
Biology 1300: General Biology I	4
Biology 1400: General Biology II*	4
Chem 1083: General Chemistry I*	4
Chem 1084: General Chemistry II	4
Chem2581: Organic Chemistry I	3
Chem2581L: Organic Chemistry I Lab	1
Chem2582: Organic Chemistry II	3
Chem2582L: Organic Chemistry II Lab	1
English 1030: College Composition	3
English 2403: World Literature	3
Physics 2091: General Physics I (Lecture & Lab combined)	4
Physics 2092: General Physics II (Lecture & Lab combined)	4
Total Number of Credits:	38
<i>*Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.</i>	
<i>Note: Graduate school admissions requirements and standards vary. (i.e., California School of Podiatric Medicine requires 8 semester hours of English/Communication studies). Some professional degree programs</i>	

require that students take prerequisite courses in person but are willing to accept online coursework due to the pandemic. This policy varies from school to school and is subject to change. For a comprehensive list of Doctor of Podiatric Medicine Program prerequisites by Institution, please visit AACPM.org

G) Post-Baccalaureate Pre-Health Program Requirements: Doctor of Veterinary Medicine (DVM) Option

Admissions Prerequisite Courses for Veterinary School:	# of Credits:
Biology 1300: General Biology I	4
Biology 1400: General Biology II*	4
Chem 1083: General Chemistry I*	4
Chem 1084: General Chemistry II	4
Chem 2581: Organic Chemistry I	3
Chem 2581L: Organic Chemistry I Lab	1
Chem 2582: Organic Chemistry II	3
Chem 2582L: Organic Chemistry II Lab	1
English 1030: College Composition	3
English 2403: World Literature	3
Biology 3400: Zoology Form and Function	4
Biology 3709: Genetics	4
Bio 3315: Microbiology Lecture	3
Bio 3315L: Microbiology Lab	1
BCHM 4115: Biochemistry Lecture	3
BCHM 4115L: Biochemistry Lab	1
<i>Select one Mathematics course from the following list: Math 1016: Statistics, Math 1054: Precalculus, or Math 2415: Calculus I</i>	3-4
Physics 2091: General Physics I (Lecture & Lab combined)	4
Physics 2092: General Physics II (Lecture & Lab combined)	4
COMM1402: Speech Communication	3
<i>Select one course from the following list: Bio 3403: Anatomy and Physiology I, Bio 3420: Parasitology, HED 3600: Nutrition, or Bio 3000: Medical Terminology</i>	3-4
Total Number of Credits needed to complete program option (minimum):	63

**Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.*

*Note: Graduate school admissions requirements and standards vary. Some schools may require **two** semesters of mathematics courses beyond Precalculus. Some schools may also require that students take prerequisite courses in person but are willing to accept online coursework due to the pandemic. This policy varies from school to school and is subject to change. For a comprehensive list of Veterinary Medicine Program prerequisites by Institution, please visit AAVMC.org and AVMA.org (https://www.aavmc.org/assets/Site_18/files/VMCAS/2021%20VMCAS%20docs/prereqchart%20FINAL-For%20Website%202.13.20.pdf, accessed April 19, 2022).*

H) **Post-Baccalaureate Pre-Health Program Requirements: Optometry (OD) Option**

Admissions Prerequisite Courses for Optometry School :	# of Credits:
Biology 1300: General Biology I	4
Biology 1400: General Biology II*	4
Chem 1083: General Chemistry I*	4
Chem 1084: General Chemistry II	4
Chem2581: Organic Chemistry I	3
Chem2581L: Organic Chemistry I Lab	1
Chem2582: Organic Chemistry II	3
Chem2582L: Organic Chemistry II Lab	1
English 1030: College Composition	3
English 2403: World Literature	3
Math 1016: Statistics	3
Math 2415: Calculus I	4
Physics 2091: General Physics I (Lecture & Lab combined)	4
Physics 2092: General Physics II (Lecture & Lab combined)	4
Psychology 1000: General Psychology	3
Social Sciences and Humanities (Choose 2 courses from the following: History, Humanities, Art, Philosophy, Religion, Economics, Anthropology, Sociology, and additional Psychology courses are acceptable)	6
Highly Recommended Courses but not required for program completion:	
BCHM 4115: Biochemistry (Lecture)	3
BCHM 4115L: Biochemistry (Lab)	1
Bio 3403: Anatomy and Physiology I (Lecture/Lab Combined)	4
OR	
Bio 2403: Anatomy and Physiology I (Lecture/Lab Combined)	
Bio 3404: Anatomy and Physiology II (Lecture/Lab Combined)	4
OR	
Bio 2404: Anatomy and Physiology II (Lecture/Lab Combined)	
Bio 3315: Microbiology (Lecture)	3
Total Number of Credits (minimum credit total required for option)	54
*Student must fulfill the requirement of Math 1054: Precalculus or equivalent to register for course. If the mathematics requirement is not met, the student may enroll in Math 1054 while enrolled in Biology 1300 and Chem 1083.	
Note: Graduate school admissions requirements and standards vary. Some optometry schools may require students take prerequisite courses in person but are willing to accept online coursework due to the pandemic. This policy varies from school to school and is subject to change. For a comprehensive list of Doctor of Optometry Program prerequisites by Institution, please visit optomcas.org	