

Sample Schedule for Pre-Medical Biochemistry Majors

Fall Semester	Credits	Spring Semester	Credits
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FRESHMAN YEAR

BCHM 1014 – Introduction to Biochemistry	1	BCHM 1984 – Introduction to Biochemistry II	1
CHEM 1035 – General Chemistry²	3	CHEM 1036 – General Chemistry²	3
CHEM 1045 – General Chemistry Lab ²	1	CHEM 1046 – General Chemistry Lab ²	1
BIOL 1105 – Principles of Biology	3	BIOL 1106 – Principles of Biology	3
BIOL 1115 – Principles of Biology Lab	1	BIOL 1116 – Principles of Biology Lab	1
ENGL 1105 – First Year Writing	3	ENGL 1106 – First Year Writing	3
MATH 1025 – Elementary Calculus I	3	MATH 1026 – Elementary Calculus II	3
Total Credits 15		Total Credits 15	

SOPHOMORE YEAR

BMSP 2135 – Human Anatomy & Physiology	3	BCHM 2114 – Biochemical Calculations	2
CHEM 2535 – Organic Chemistry⁴	3	BMSP 2136 – Human Anatomy & Physiology	3
CHEM 2545 – Organic Chemistry Lab	1	CHEM 2536 – Organic Chemistry⁴	3
PHYS 2205 – General Physics	3	CHEM 2546 – Organic Chemistry Lab	1
PHYS 2215 – General Physics Lab	1	PHYS 2206 – General Physics	3
University Core/Electives	4	PHYS 2216 – General Physics Lab	1
		University Core/Electives	2
Total Credits 15		Total Credits 15	

JUNIOR YEAR

BCHM 4115 – General Biochemistry	4	BCHM 4116 – General Biochemistry	3
BIOL 2004 – Genetics	3	BCHM 4124 – Biochemistry Lab*	6
CHEM 2114 – Analytical Chemistry	3	PSYC 1004 – Introductory Psychology	3
CHEM 2124 – Analytical Chemistry Lab	1	University Core/Electives	3
SOC 1004 – Introductory Sociology	3		
University Core/Electives	1		
Total Credits 15		Total Credits 15	

SENIOR YEAR

CHEM 4615 – Physical Chemistry	3	BIOL 2604 – General Microbiology	3
STAT 3615 – Biological Statistics	3	BIOL 2614 – General Microbiology Lab	2
BCHM 5004 – Seminar in Biochemistry**	1	CHEM 4616 – Physical Chemistry	3
University Core/Electives	8	University Core/Electives	7
Total Credits 15		Total Credits 15	

¹This course has a prerequisite of MATH 1014.

²The department will also accept CHEM 1055-1056 General Chemistry for Majors and CHEM 1065-1066 General Chemistry Lab for Majors.

³This course is highly recommended, but not required.

⁴The department will also accept CHEM 2565-2566 Principles of Organic Chemistry.

NOTE: Bolded courses are highly recommended to take before the **Medical College Admission Test**, but not required.

*This course can also be taken during the Fall or Spring semester of the senior year.

** This course is highly recommended, but not required, and may be taken twice during the junior and senior years.

Additional Recommended Elective Courses for Pre-Medical Students

The courses listed may have pre- or co-requisites

BIOL 2104 – Cellular and Molecular Biology – 3
BIOL 3134 – Human Genetics – 3
BIOL 3504 – Health Professions Preceptorship – 3
BIOL 4664 – Virology – 3
BIOL 4704 – Immunology – 3
BIOL 4714 – Immunology Lab – 1
BMSP 2145–2146 – Human Anatomy & Physiology Lab – 1, 1
CHEM 4554 – Drug Chemistry – 3
COMM 2004 – Public Speaking – 3
ECON 2005 – Principles of Economics – 3
GEOG 4074 – Medical Geography – 3
HD 1004 – Human Development I – 3
HD 2004 – Human Development II – 3
HIST 3724: History of Disease, Medicine, and Health
HNFE 2204 – Medical Terminology – 3
NEUR 2025-2026 – Introduction to Neuroscience – 3, 3
NEUR 2035-2036 – Neuroscience Laboratory – 1, 1
NEUR 4594 – Clinical Neuro in Practice – 3
PHIL 1304 – Morality and Justice – 3
PHIL 3324 – Biomedical Ethics – 3
SOC 4704 – Medical Sociology – 3
STS 3314 – Medical Dilemmas and Human Experience – 3

Common Secondary Majors

Biology
Chemistry
Clinical Neuroscience
Microbiology

Common Minors

Biology
Biomedical Engineering
Chemistry
Computer Science
Humanities, Science, and Technology
Interdisciplinary Engineering and Science
Medicine and Society
Philosophy
Psychology
Science, Engineering, and Law
Sociology
Systems Biology