

POSTBACCALAUREATE PREMEDICAL PROGRAM

Curriculum and Courses

The academic curriculum of the Postbaccalaureate Premedical Program is designed to fulfill the prerequisites for medical school admission. Because course requirements for medical school can vary, our premedical curriculum is designed to prepare Postbac Premed students to train anywhere in the nation. For the sequencing of the following required courses, please review the program timetables: [traditional](#), [part-time](#), or [accelerated](#). While enrolled in the program, students must fulfill all requirements with courses offered by Columbia's Faculty of Arts & Sciences and they are expected to have their advisors approve their programs of study. In addition to the following courses, students must gain at least 120 hours of [health care experience](#).

English

One year of college English or the equivalent is required. Most Postbac Premed students have completed this requirement as undergraduates and do not need to complete course work in English at Columbia. Students should inform their advisors early on when they are especially interested in particular medical school programs (linkage or non-linkage), since some may have specific requirements for this subject of study.

Mathematics

Students are required to complete one year (6 points) of college mathematics beyond pre-calculus, consisting of one term of calculus and one term of statistics. (Some students elect to take a second semester of calculus instead of statistics.)

If a student has not already successfully completed Calculus I, it may be taken as a co-requisite of Physics I or General Chemistry I.

Courses

MATH UN1101 CALCULUS I. 3.00 points.

Prerequisites: (see Courses for First-Year Students). Functions, limits, derivatives, introduction to integrals, or an understanding of pre-calculus will be assumed. (SC)

Spring 2021: MATH UN1101

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
MATH 1101	001/12308	M W 2:40pm - 3:55pm Online Only	Sayan Das	3.00	14/35
MATH 1101	002/12307	M W 4:10pm - 5:25pm Online Only	Kevin Smith	3.00	31/35
MATH 1101	003/12306	T Th 10:10am - 11:25am Online Only	Panagiota Daskalopoulos	3.00	61/100
MATH 1101	004/12305	T Th 11:40am - 12:55pm Online Only	George Dragomir	3.00	82/100
MATH 1101	005/12304	T Th 4:10pm - 5:25pm Online Only	Tobias Schaefer	3.00	20/40
MATH 1101	AU1/19222		Sayan Das	3.00	1/5

Fall 2021: MATH UN1101

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
MATH 1101	001/10622	M W 10:10am - 11:25am Room TBA	Daniele Alessandrini	3.00	2/50
MATH 1101	002/10623	M W 1:10pm - 2:25pm Room TBA		3.00	4/30
MATH 1101	003/10624	M W 2:40pm - 3:55pm Room TBA	Akash Sengupta	3.00	9/50
MATH 1101	004/10625	M W 4:10pm - 5:25pm Room TBA	Akash Sengupta	3.00	4/50
MATH 1101	005/10626	T Th 10:10am - 11:25am Room TBA	George Dragomir	3.00	11/50
MATH 1101	006/10628	T Th 11:40am - 12:55pm Room TBA	George Dragomir	3.00	13/50
MATH 1101	007/00170	M W 6:10pm - 7:25pm Room TBA	Lindsay Piechnik	3.00	18/100
MATH 1101	008/10629	T Th 1:10pm - 2:25pm Room TBA		3.00	1/50
MATH 1101	009/10630	T Th 4:10pm - 5:25pm Room TBA		3.00	4/30
MATH 1101	011/00171	T Th 2:40pm - 3:55pm Room TBA	Lindsay Piechnik	3.00	16/100

MATH UN1102 CALCULUS II. 3.00 points.

Prerequisites: MATH UN1101 or the equivalent.

Prerequisites: MATH UN1101 or the equivalent. Methods of integration, applications of the integral, Taylors theorem, infinite series. (SC)

Spring 2021: MATH UN1102

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
MATH 1102	001/12303	M W 11:40am - 12:55pm Online Only	Maithreya Sitaraman	3.00	12/35
MATH 1102	002/12302	M W 4:10pm - 5:25pm Online Only	Yier Lin	3.00	14/35
MATH 1102	003/12301	T Th 11:40am - 12:55pm Online Only	Evgeni Dimitrov	3.00	73/100
MATH 1102	004/12300	T Th 1:10pm - 2:25pm Online Only	Evgeni Dimitrov	3.00	53/100
MATH 1102	AU1/19280		Maithreya Sitaraman	3.00	1/5

Fall 2021: MATH UN1102

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
MATH 1102	001/10631	M W 1:10pm - 2:25pm Room TBA		3.00	10/30
MATH 1102	002/10632	M W 2:40pm - 3:55pm Room TBA		3.00	4/30
MATH 1102	003/10634	M W 4:10pm - 5:25pm Room TBA	Francesco Lin	3.00	8/50
MATH 1102	004/10635	T Th 10:10am - 11:25am Room TBA	Elena Giorgi	3.00	10/50
MATH 1102	005/10636	T Th 11:40am - 12:55pm Room TBA		3.00	5/50
MATH 1102	006/10638	T Th 6:10pm - 7:25pm Room TBA	Elliott Stein	3.00	12/50

STAT UN1101 Introduction to Statistics. 3 points.

CC/GS: Partial Fulfillment of Science Requirement, BC: Fulfillment of General Education Requirement: Quantitative and Deductive Reasoning (QUA).

Prerequisites: intermediate high school algebra.

Designed for students in fields that emphasize quantitative methods. Graphical and numerical summaries, probability, theory of sampling distributions, linear regression, analysis of variance, confidence intervals and hypothesis testing. Quantitative reasoning and data analysis. Practical experience with statistical software. Illustrations are taken from a variety of fields. Data-collection/analysis project with emphasis on study designs is part of the coursework requirement.

Spring 2021: STAT UN1101

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
STAT 1101	001/13112	M W 8:40am - 9:55am Online Only	Banu Baydil	3	72/86
STAT 1101	002/13114	T Th 10:10am - 11:25am Online Only	Banu Baydil	3	76/86
STAT 1101	003/13117	T Th 6:10pm - 7:25pm Online Only	Li Haoran	3	57/86

Fall 2021: STAT UN1101

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
STAT 1101	001/13029	M W 8:40am - 9:55am Online Only	Banu Baydil	3	49/86
STAT 1101	002/13030	T Th 6:10pm - 7:25pm Online Only	Ha Nguyen	3	15/86
STAT 1101	003/13031	M W 11:40am - 12:55pm Online Only	Banu Baydil	3	66/86

Biology

Students are required to complete one year (6 points) of biology emphasizing biochemistry, genetics, evolution, cell biology, developmental biology, and physiology, and one semester (3 points) of biology lab involving dissection, experimentation, and data analysis. Students may take the laboratory course in either the fall or spring semester or in the first summer session after the completion of the year of biology.

Courses

BIOL UN2401 Contemporary Biology I: Biochemistry, Genetics & Molecular Biology. 3 points.

Prerequisites: a course in college chemistry or the written permission of either the instructor or the premedical adviser.

Recommended as the introductory biology course for science majors who have completed a year of college chemistry and premedical students. The fundamental principles of biochemistry, molecular biology, and genetics. Website: <http://www.columbia.edu/cu/biology/courses/c2005/index.html>. SPS and TC students may register for this course, but they must first obtain the written permission of the instructor, by filling out a paper Registration Adjustment Form (Add/Drop form). The form can be downloaded at the URL below, but must be signed by the instructor and returned to the office of the registrar. registrar. <http://registrar.columbia.edu/sites/default/files/content/reg-adjustment.pdf>

Fall 2021: BIOL UN2401

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
BIOL 2401	001/11157	T Th 10:10am - 11:25am Online Only	Mary Ann Price, Marko Jovanovic	3	57/200
BIOL 2401	002/11158	T Th 4:10pm - 5:25pm Online Only	Mary Ann Price, Marko Jovanovic	3	23/200

BIOL UN2501 Contemporary Biology Laboratory. 3 points.

Enrollment per section limited to 28. Lab Fee: \$150.

Fee: Lab Fee - 150.00

Prerequisites: Strongly recommended prerequisite or corequisite: BIOL UN2005 or BIOL UN2401.

Experiments focus on genetics and molecular biology, with an emphasis on data analysis and experimental techniques. The class also includes a study of mammalian anatomy and histology. SPS and TC students may register for this course, but they must first obtain the written permission of the instructor, by filling out a paper Registration Adjustment Form (Add/Drop form). The form can be downloaded at the URL below, but must be signed by the instructor and returned to the office of the registrar. <http://registrar.columbia.edu/sites/default/files/content/reg-adjustment.pdf>

Fall 2021: BIOL UN2501

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
BIOL 2501	001/12968	M 1:10pm - 5:00pm 922 Schermerhorn Hall	Claire Hazen	3	9/9
BIOL 2501	002/12970	T 1:10pm - 5:00pm 922 Schermerhorn Hall	Claire Hazen	3	9/9
BIOL 2501	003/12971	W 1:10pm - 5:00pm 922 Schermerhorn Hall	Claire Hazen	3	9/9
BIOL 2501	004/12972	Th 6:40pm - 10:30pm 922 Schermerhorn Hall	Claire Hazen	3	9/9
BIOL 2501	005/12973	F 1:10pm - 5:00pm 922 Schermerhorn Hall	Claire Hazen	3	9/9

BIOL UN2402 Contemporary Biology II: Cell Biology, Development & Physiology. 3 points.

Prerequisites: a course in college chemistry and BIOL UN2005 or BIOL UN2401, or the written permission of either the instructor or the premedical adviser.

Cellular biology and development; physiology of cells and organisms. Same lectures as *BIOL UN2006*, but recitation is optional. For a detailed description of the differences between the two courses, see the course web site or <http://www.columbia.edu/cu/biology/ug/advice/faqs/gs.html>. Website: <http://www.columbia.edu/cu/biology/courses/c2006/>

SPS, Barnard, and TC students may register for this course, but they must first obtain the written permission of the instructor, by filling out a paper Registration Adjustment Form (Add/Drop form). The form can be downloaded at the URL below, but must be signed by the instructor and returned to the office of the registrar. <http://registrar.columbia.edu/sites/default/files/content/reg-adjustment.pdf>

Spring 2021: BIOL UN2402

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
BIOL 2402	001/11716	T Th 10:10am - 11:25am Online Only	Alice Heicklen, 3 Mary Ann Price, Jellert Gaublonme	3	86/400
BIOL 2402	002/12457	T Th 4:10pm - 5:25pm Online Only	Alice Heicklen, 3 Mary Ann Price, Jellert Gaublonme	3	3/10

Biochemistry (Recommended)

Because increasing numbers of medical schools require a semester of biochemistry, it is strongly recommended that postbacs take biochemistry. Usually, students take it during the application year.

Courses

BIOC UN3300 Biochemistry. 3 points.

Prerequisites: one year each of Introductory Biology and General Chemistry. Corequisites: Organic Chemistry. Primarily aimed at nontraditional students and undergraduates who have course conflicts with BIOC UN3501.

Biochemistry is the study of the chemical processes within organisms that give rise to the immense complexity of life. This complexity emerges from a highly regulated and coordinated flow of chemical energy from one biomolecule to another. This course serves to familiarize students with the spectrum of biomolecules (carbohydrates, lipids, amino acids, nucleic acids, etc.) as well as the fundamental chemical processes (glycolysis, citric acid cycle, fatty acid metabolism, etc.) that allow life to happen. In particular, this course will employ active learning techniques and critical thinking problem-solving to engage students in answering the question: how is the complexity of life possible? NOTE: While Organic Chemistry is listed as a corequisite, it is highly recommended that you take Organic Chemistry beforehand.

Spring 2021: BIOC UN3300

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
BIOC 3300	001/13412	T 7:00pm - 9:30pm Online Only	Danny Ho	3	44/100

Chemistry

Students are required to complete one year (8 points) of general chemistry and one semester (3 points) of general chemistry

laboratory. The General Chemistry sequence must be completed before taking Biology or Organic Chemistry. General chemistry lecture courses have corresponding, mandatory recitations. The laboratory course has a mandatory one-hour laboratory lecture course associated with it, and should be taken alongside or after General Chemistry II. AP credits cannot be used to fulfill the general chemistry requirement.

Chemistry is a course sequence that students may begin in the fall or spring term. Students who enroll in Chemistry I in the spring should plan to take the 12-week Chemistry II course in the summer.

Courses

CHEM UN1403 GENERAL CHEMISTRY I-LECTURES. 4.00 points.

CC/GS: Partial Fulfillment of Science Requirement

Corequisites: MATH UN1101

Corequisites: MATH UN1101 Preparation equivalent to one year of high school chemistry is assumed. Students lacking such preparation should plan independent study of chemistry over the summer or take CHEM UN0001 before taking CHEM UN1403. Topics include stoichiometry, states of matter, nuclear properties, electronic structures of atoms, periodic properties, chemical bonding, molecular geometry, introduction to quantum mechanics and atomic theory, introduction to organic and biological chemistry, solid state and materials science, polymer science and macromolecular structures and coordination chemistry. Although CHEM UN1403 and CHEM UN1404 are separate courses, students are expected to take both terms sequentially. The order of presentation of topics may differ from the order presented here, and from year to year. Students must ensure they register for the recitation that corresponds to the lecture section. When registering, please add your name to the wait list for the recitation corresponding to the lecture section (1405 for lecture sec 001; 1407 for lecture sec 002; 1409 for lecture sec 003; 1411 for lecture sec 004). Information about recitation registration will be sent out before classes begin. DO NOT EMAIL THE INSTRUCTOR. Please check the Directory of Classes for details

Spring 2021: CHEM UN1403

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 1403	001/10692	W 6:10pm - 7:25pm Online Only	Robert Beer	4.00	140/140

Fall 2021: CHEM UN1403

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 1403	001/10525	M W 10:10am - 11:25am Room TBA	Gerard Parkin	4.00	27/220
CHEM 1403	002/10526	T Th 11:40am - 12:55pm Room TBA	Wei Min	4.00	6/180
CHEM 1403	003/10527	T Th 6:10pm - 7:25pm Room TBA	Ruben Savizky	4.00	20/180
CHEM 1403	004/10528	M W 6:10pm - 7:25pm Room TBA	Robert Beer	4.00	8/120

CHEM UN1500 General Chemistry Laboratory. 3 points.

CC/GS: Partial Fulfillment of Science Requirement

Lab Fee: \$140.

Corequisites: CHEM UN1403, CHEM UN1404

An introduction to basic lab techniques of modern experimental chemistry, including quantitative procedures and chemical analysis. Students must register for a Lab Lecture section for this course (*CHEM UN1501*). Please check the Directory of Classes for details. Please note that *CHEM UN1500* is offered in the fall and spring semesters. Mandatory lab check-in will be held during the first week of classes in both the fall and spring semesters.

Spring 2021: CHEM UN1500

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 1500	001/11844	T 6:10pm - 9:50pm Online Only	Joseph Ulichny, Sarah Hansen	3	41/40
CHEM 1500	002/11845	W 8:40am - 12:25pm Online Only	Joseph Ulichny, Sarah Hansen	3	27/30
CHEM 1500	003/11850	W 1:10pm - 4:50pm Online Only	Joseph Ulichny, Sarah Hansen	3	31/30
CHEM 1500	004/11849	W 6:10pm - 9:50pm Online Only	Joseph Ulichny, Sarah Hansen	3	16/30
CHEM 1500	005/12133	Th 1:10pm - 4:50pm Online Only	Joseph Ulichny, Sarah Hansen	3	44/40
CHEM 1500	006/11846	Th 6:10pm - 9:50pm Online Only	Joseph Ulichny, Sarah Hansen	3	43/40
CHEM 1500	007/11847	F 8:40am - 12:25pm Online Only	Joseph Ulichny, Sarah Hansen	3	19/30
CHEM 1500	008/11848	F 1:10pm - 4:50pm Online Only	Joseph Ulichny, Sarah Hansen	3	43/40

Fall 2021: CHEM UN1500

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 1500	001/10529	T 1:10pm - 4:50pm 302 Havemeyer Hall	Joseph Ulichny, Sarah Hansen	3	24/46
CHEM 1500	002/10530	T 6:10pm - 9:50pm 302 Havemeyer Hall	Sarah Hansen, Joseph Ulichny	3	30/46
CHEM 1500	003/10531	W 1:10pm - 4:50pm 302 Havemeyer Hall	Sarah Hansen, Joseph Ulichny	3	26/46
CHEM 1500	004/10532	Th 1:10pm - 4:50pm 302 Havemeyer Hall	Joseph Ulichny, Sarah Hansen	3	5/46

CHEM UN1404 General Chemistry II (Lecture). 4 points.

CC/GS: Partial Fulfillment of Science Requirement

Prerequisites: CHEM UN1403

Although CHEM UN1403 and CHEM UN 1404 are separate courses, students are expected to take both terms sequentially. Topics include gases, kinetic theory of gases, states of matter: liquids and solids, chemical equilibria, applications of equilibria, acids and bases, chemical thermodynamics, energy, enthalpy, entropy, free energy, periodic properties, chemical kinetics, and electrochemistry. The order of presentation of topics may differ from the order presented here, and from year to year. Students must ensure they register for the recitation that corresponds to the lecture section. Please check the Directory of Classes for details.

Spring 2021: CHEM UN1404

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 1404	001/10693	T Th 10:10am - 11:25am 309 Havemeyer Hall	Laura Kaufman	4	103/170
CHEM 1404	002/10694	T Th 11:40am - 12:55pm Online Only	Wei Min	4	44/75
CHEM 1404	003/11851	M W 6:10pm - 7:25pm Online Only	Ruben Savizky	4	229/225

Organic Chemistry

Students are required to complete one year (8 points) of organic chemistry. Organic chemistry lecture courses have corresponding, mandatory recitations. Students are also required to take 1.5 points of organic chemistry lab along with a one-hour mandatory laboratory lecture in both fall and spring semesters (for a total of 3 points). Alternatively, with the exception of linkage applicants, students may take a 3-point lab over a six-week summer session after completing the lecture sequence.

Courses

CHEM UN2443 Organic Chemistry I (Lecture). 4 points.

Prerequisites: (CHEM UN1403 and CHEM UN1404) or CHEM UN1604

The principles of organic chemistry. The structure and reactivity of organic molecules are examined from the standpoint of modern theories of chemistry. Topics include stereochemistry, reactions of organic molecules, mechanisms of organic reactions, syntheses and degradations of organic molecules, and spectroscopic techniques of structure determination. Although CHEM UN2443 and CHEM UN2444 are separate courses, students are expected to take both terms sequentially. Students must ensure they register for the recitation which corresponds to the lecture section. Please check the Directory of Classes for details.

Spring 2021: CHEM UN2443

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 2443	001/11243	T Th 1:10pm - 2:25pm Online Only	Luis Campos	4	30/70

Fall 2021: CHEM UN2443

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 2443	001/10546	M W 11:40am - 12:55pm Room TBA	Karen Phillips	4	117/170
CHEM 2443	002/10547	T Th 1:10pm - 2:25pm Room TBA	Virginia Cornish	4	25/170
CHEM 2443	003/10548	M W 6:10pm - 7:25pm Room TBA	Charles Doubleday	4	120/120

CHEM UN2444 ORGANIC CHEMISTRY II-LECTURES. 4.00 points.

Prerequisites: CHEM UN1404 or CHEM UN1604 and CHEM UN1500 and CHEM UN2443

Prerequisites: CHEM UN1404 or CHEM UN1604, CHEM UN1500 and CHEM UN2443. The principles of organic chemistry. The structure and reactivity of organic molecules are examined from the standpoint of modern theories of chemistry. Topics include stereochemistry, reactions of organic molecules, mechanisms of organic reactions, syntheses and degradations of organic molecules, and spectroscopic techniques of structure determination. Although CHEM UN2443 and CHEM UN2444 are separate courses, students are expected to take both terms sequentially. Students must ensure they register for the recitation which corresponds to the lecture section. Please check the Directory of Classes for details

Spring 2021: CHEM UN2444

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 2444	001/11261	M W 11:40am - 12:55pm Online Only	Karen Phillips	4.00	145/180
CHEM 2444	002/11260	M W 6:10pm - 7:25pm Online Only	Charles Doubleday	4.00	147/180

CHEM UN2493 Organic Chemistry Laboratory I (Techniques). 0 points.

Lab Fee: \$63.00

Prerequisites: (CHEM UN1403 and CHEM UN1404) or (CHEM UN1604) and (CHEM UN1500 or CHEM UN1507)

Corequisites: CHEM UN2443

Techniques of experimental organic chemistry, with emphasis on understanding fundamental principles underlying the experiments in methodology of solving laboratory problems involving organic molecules. Attendance at the first lab lecture and laboratory session is mandatory. Please note that CHEM UN2493 is the first part of a full year organic chemistry laboratory course. Students must register for the lab lecture section (CHEM UN2495) which corresponds to their lab section. Students must attend ONE lab lecture and ONE lab section every other week. Please contact your advisers for further information.

Fall 2021: CHEM UN2493

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 2493	001/10549	M 1:10pm - 5:00pm 202a Havemeyer Hall	Talha Siddiqui	0	24/24
CHEM 2493	002/10550	T 12:10pm - 4:00pm 202a Havemeyer Hall	Talha Siddiqui	0	24/24
CHEM 2493	003/10551	T 6:10pm - 10:00pm 202a Havemeyer Hall	Talha Siddiqui	0	19/34
CHEM 2493	004/10552	W 1:10pm - 5:00pm 202a Havemeyer Hall	Anna Ghurbanyan	0	34/34
CHEM 2493	005/10554	Th 12:00pm - 3:50pm 202a Havemeyer Hall	Anna Ghurbanyan	0	34/34
CHEM 2493	006/10555	F 11:00am - 2:50pm 202a Havemeyer Hall	Anna Ghurbanyan	0	30/34
CHEM 2493	007/10556	M 1:10pm - 5:00pm 202a Havemeyer Hall	Talha Siddiqui	0	9/24
CHEM 2493	008/10557	T 12:00pm - 3:50pm 202a Havemeyer Hall	Talha Siddiqui	0	3/24
CHEM 2493	009/10558	T 6:10pm - 10:00pm 202a Havemeyer Hall	Talha Siddiqui	0	10/34
CHEM 2493	010/10559	W 1:10pm - 5:00pm 202a Havemeyer Hall	Anna Ghurbanyan	0	28/34
CHEM 2493	011/10560	Th 12:00pm - 3:50pm 202a Havemeyer Hall	Anna Ghurbanyan	0	14/34
CHEM 2493	012/10561	F 11:00am - 2:50pm 202a Havemeyer Hall	Anna Ghurbanyan	0	19/34

CHEM UN2494 ORGANIC CHEM. LAB II SYNTHESIS. 0.00 points.

Lab Fee: \$62.00

Prerequisites: (CHEM UN1403 and CHEM UN1404) and CHEM UN1500 and CHEM UN2493

Corequisites: CHEM UN2444

Prerequisites: CHEM W1403-CHEM W1404; CHEM W1500; CHEM W2493. Corequisites: CHEM W2444. Please note that you must complete CHEM W2493 before you register for CHEM W2494. This lab introduces students to experimental design and trains students in the execution and evaluation of scientific data. The technique experiments in the first half of the course (CHEM W2493) teach students to develop and master the required experimental skills to perform the challenging synthesis experiments in the second semester. The learning outcomes for this lab are the knowledge and experimental skills associated with the most important synthetic routes widely used in industrial and research environments. Attendance at the first lab lecture and laboratory session is mandatory. Please note that CHEM W2494 is the second part of a full year organic chemistry laboratory course. Students must register for the lab lecture section (CHEM W2496) which corresponds to their lab section. Students must attend ONE lab lecture and ONE lab section every other week. Please contact your advisors for further information.

Spring 2021: CHEM UN2494

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
CHEM 2494	004/11335	W 1:10pm - 5:00pm Online Only	Anna Ghurbanyan	0.00	42/45
CHEM 2494	005/11336	Th 12:00pm - 3:50pm Online Only	Anna Ghurbanyan	0.00	45/45
CHEM 2494	006/11337	F 12:00pm - 3:50pm Online Only	Anna Ghurbanyan	0.00	46/45
CHEM 2494	010/11338	W 1:10pm - 5:00pm Online Only	Anna Ghurbanyan	0.00	34/45
CHEM 2494	011/11339	Th 12:00pm - 3:50pm Online Only	Anna Ghurbanyan	0.00	41/45
CHEM 2494	012/11340	F 12:00pm - 3:50pm Online Only	Anna Ghurbanyan	0.00	43/45

Physics

Students are required to complete one year (6 points) of general physics and one year (2 points) of general physics laboratory. Physics is a course sequence that students may begin in the fall or spring term. Students who enroll in Physics I in the spring should plan to take the twelve-week Physics II course in the summer as it is not offered in the fall. Calculus is a corequisite for Physics I; however, students who have never taken calculus before are advised to complete it before undertaking Physics.

Courses

PHYS UN1201 General Physics I. 3 points.

CC/GS: Partial Fulfillment of Science Requirement

Prerequisites: some basic background in calculus or be concurrently taking MATH UN1101 Calculus I., The accompanying laboratory is PHYS UN1291-UN1292

The course will use elementary concepts from calculus. The accompanying laboratory is *PHYS UN1291 - UN1292*. Basic introduction to the study of mechanics, fluids, thermodynamics, electricity, magnetism, optics, special relativity, quantum mechanics, atomic physics, and nuclear physics.

Spring 2021: PHYS UN1201

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PHYS 1201	001/10189	T Th 5:40pm - 6:55pm Online Only	P. Michael Tuts	3	139/200

Fall 2021: PHYS UN1201

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PHYS 1201	001/11931	M W 10:10am - 11:25am Room TBA	Michael Shaevitz	3	156/180
PHYS 1201	002/11932	T Th 5:40pm - 6:55pm Room TBA	P. Michael Tuts	3	85/180

PHYS UN1291 General Physics Laboratory. 1 point.

Same course as *PHYS W1291x*, but given off-sequence.

Corequisites: PHYS UN1201

This course is the laboratory for the corequisite lecture course and can be taken only during the same term as the corresponding lecture.

Spring 2021: PHYS UN1291

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PHYS 1291	001/10191	M 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	14/15
PHYS 1291	002/10192	M 4:10pm - 7:10pm Online Only	Giuseppina Cambareri	1	11/15
PHYS 1291	003/10193	T 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	14/15
PHYS 1291	004/10194	T 7:30pm - 10:30pm Online Only	Giuseppina Cambareri	1	11/15
PHYS 1291	005/10195	W 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	10/15
PHYS 1291	006/10196	W 4:10pm - 7:10pm Online Only	Giuseppina Cambareri	1	10/15
PHYS 1291	007/10197	Th 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	11/15
PHYS 1291	008/10198	M 7:30pm - 10:30pm Online Only	Giuseppina Cambareri	1	7/15
PHYS 1291	010/18017	F 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	13/15

Fall 2021: PHYS UN1291

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PHYS 1291	001/11977	M 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	002/11978	M 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	003/11979	M 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	004/11980	M 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	6/15
PHYS 1291	005/11981	M 7:30pm - 10:30pm Room TBA	Giuseppina Cambareri	1	7/15
PHYS 1291	007/11982	T 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	008/11983	T 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	009/11984	T 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	6/15
PHYS 1291	010/11985	T 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	0/15
PHYS 1291	011/11986	T 7:30pm - 10:30pm Room TBA	Giuseppina Cambareri	1	6/15
PHYS 1291	013/11988	W 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	014/11989	W 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	015/11990	W 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	7/15
PHYS 1291	016/11991	W 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	1/15
PHYS 1291	017/11992	W 7:30pm - 10:30pm Room TBA	Giuseppina Cambareri	1	1/15
PHYS 1291	019/11993	Th 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	020/11994	Th 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	7/15
PHYS 1291	021/11995	Th 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	8/15
PHYS 1291	022/11996	Th 4:10pm - 7:10pm Room TBA	Giuseppina Cambareri	1	2/15
PHYS 1291	023/11997	Th 7:30pm - 10:30pm Room TBA	Giuseppina Cambareri	1	6/15
PHYS 1291	025/11998	F 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	15/15
PHYS 1291	026/12000	F 1:00pm - 4:00pm Room TBA	Giuseppina Cambareri	1	8/15

PHYS UN1292 General Physics Laboratory II. 1 point.

Corequisites: PHYS UN1201, PHYS UN1202

This course is the laboratory for the corequisite lecture course (*PHYS UN1201 - PHYS UN1202*) and can be taken only during the same term as the corresponding lecture.

Spring 2021: PHYS UN1292

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PHYS 1292	001/10199	M 1:00pm - 4:00pm Online Only		1	15/15
PHYS 1292	002/16491	M 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	15/15
PHYS 1292	007/10202	T 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	008/16493	T 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	009/10203	T 4:10pm - 7:10pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	010/16494	T 4:10pm - 7:10pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	011/10204	T 7:30pm - 10:30pm Online Only	Giuseppina Cambareri	1	14/15
PHYS 1292	013/10205	W 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	14/15
PHYS 1292	014/16495	W 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	015/10206	W 4:10pm - 7:10pm Online Only	Giuseppina Cambareri	1	15/15
PHYS 1292	017/10207	W 7:30pm - 10:30pm Online Only	Giuseppina Cambareri	1	12/15
PHYS 1292	018/10208	Th 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	14/15
PHYS 1292	019/16497	Th 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	020/10209	Th 4:10pm - 7:10pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	022/10210	Th 7:30pm - 10:30pm Online Only	Giuseppina Cambareri	1	13/15
PHYS 1292	023/10211	F 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	12/15

Summer 2021: PHYS UN1292

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PHYS 1292	001/10291	M 1:00pm - 4:10pm Online Only	Giuseppina Cambareri	1	15/15
PHYS 1292	002/11142	T 1:00pm - 4:10pm Online Only	Giuseppina Cambareri	1	15/15
PHYS 1292	003/11143	W 1:00pm - 4:10pm Online Only	Giuseppina Cambareri	1	15/15
PHYS 1292	004/11144	Th 1:00pm - 4:10pm Online Only	Giuseppina Cambareri	1	15/15
PHYS 1292	009/12941	W 1:00pm - 4:00pm Online Only	Giuseppina Cambareri	1	3/15

Psychology (Recommended)

Premeds who have not previously studied psychology at the college level should consider enrolling in The Science of Psychology (PSYC UN1001) in order to be fully prepared for the MCAT.

Courses**PSYC UN1001 The Science of Psychology. 3 points.**

CC/GS: Partial Fulfillment of Science Requirement

Enrollment may be limited. Attendance at the first two class periods is mandatory.

Prerequisites: BLOCKED CLASS. EVERYONE MUST JOIN WAITLIST TO BE ADMITTED

Broad survey of psychological science including: sensation and perception; learning, memory, intelligence, language, and cognition; emotions and motivation; development, personality, health and illness, and social behavior. Discusses relations between the brain, behavior, and experience. Emphasizes science as a process of discovering both new ideas and new empirical results. *PSYC UN1001* serves as a prerequisite for further psychology courses and should be completed by the sophomore year.

Spring 2021: PSYC UN1001

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PSYC 1001	001/10967	T Th 1:10pm - 2:25pm Online Only	Patricia Lindemann	3	215/240
PSYC 1001	002/10968	M W 11:40am - 12:55pm Online Only	Svetlana Rosis	3	204/189

Fall 2021: PSYC UN1001

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
PSYC 1001	001/10017	T Th 1:10pm - 2:25pm Room TBA	Patricia Lindemann	3	105/189
PSYC 1001	002/11361	T Th 10:10am - 11:25am Room TBA	Tina Kao	3	29/189
PSYC 1001	003/11403	M W 11:40am - 12:55pm Room TBA	Svetlana Rosis	3	107/189

Sociology (Recommended)

Given the MCAT Exam's increased emphasis on social sciences, students who have not previously taken a college-level sociology course are encouraged to prepare for the exam through self-study. The completion of a sociology course is not a prerequisite for medical school.