

Pharmaceutical Chemistry - Bachelor of Science (SCHPUG)

Total Credits Required: 128

Major Requirements

Department Core Requirements - 54 credits

Course	Credits
CH1150 University Chemistry I AND	3
CH1151 University Chemistry Lab 1 AND	1
CH1153 University Chemistry Recitation I	1
OR	
CH1112 University Chemistry - Studio Lab I	5
CH1160 University Chemistry II AND	3
CH1161 University Chemistry Lab II AND	1
CH1163 University Chemistry Recitation II	1
OR	
CH1122 University Chemistry - Studio Lab II	5
CH1130 Orientation	1
CH2410 Organic Chemistry I	3
CH2411 Organic Chemistry Lab I	1
CH2420 Organic Chemistry II	3
CH2421 Organic Chemistry Lab II	2
CH3510 Physical Chemistry I	3
CH3511 Physical Chemistry Lab I	2
CH3520 Physical Chemistry II	3
CH3521 Physical Chemistry Lab II	2
CH4110 Pharmaceutical Chemistry: Drug Action	3
CH4120 Pharmaceutical Chemistry: Drug Design	3
CH4222 Bioanalytical Chemistry	5
CH4412 Spectroscopy of Organic Chemistry	3
CH4710 Biomolecular Chemistry I	3
CH4720 Biomolecular Chemistry II	3
CH4721 Research Methods in Biomolecular Chemistry	3
CH4910 Chemistry Seminar	1

Math/Science Requirements - 36 credits

BL1040 Principles of Biology	4
BL3640 General Immunology	3
CS1121 Intro to Programming I	3
MA1160 Calculus with Technology I	4
MA2160 Calculus with Technology II	4
MA2320 Intro to Linear Algebra	2
MA2720 Statistical Methods	4
MA3160 Multivariable Calculus with Tech	4
PH1100 Physics by Inquiry I	1
PH1200 Physics by Inquiry II	1
PH2100 Univ Physics I - Mechanics	3
PH2200 Univ Physics II - Elec and Mag	3

Major Requirements (cont.) - 3 credits

Course	Credits
Approved Electives - Select 3 credits from the following list.	
BL2200 Genetics	3
BL3210 General Microbiology	4
BL3300 Introduction to Genomics	3
BL4020 Biochemistry II	3
BL4030 Molecular Biology	3
CH4310 Inorganic Chemistry I	3
CH4311 Inorganic Chemistry Lab I	2
CH4430 Intermediate Organic Chemistry	3
CH4510 Intermediate Physical Chemistry	3
CH4560 Computational Chemistry	3
CH4610 Intro to Polymer Science	3
CH4990 Undergraduate Research in Chemistry	6
FW4089 Bioinformatics	3

General Education Requirements - 28 credits

UN1001 Perspectives on Inquiry	3
UN1002 World Cultures *	4
UN2001 Composition	3
UN2002 Institutions	3
Distribution Courses **	15

Free Electives - 7 credits

Co-Curricular Activities - 3 Units ***

* Two semesters of a single modern language (6 credits) plus UN1003 (1 credit) may be substituted for UN1002.

** From HASS Distribution Course Lists: 6 of the 15 credits must be 3XXX or 4XXX level courses.

*** P.E. courses are taught as 0.5 unit classes. Thus, 6 of these are needed for 3 units.