

PHARMACEUTICAL SCIENCES MAJOR (M)

The Bachelor of Science in Pharmaceutical Sciences is designed for students who wish to earn both a B.S. and a Doctor of Pharmacy degree at Concordia University Wisconsin. Students complete the core requirements, many of the major requirements, and the general elective requirements during the first three years at CUW, then complete the remaining major requirements during their first year in the CUW School of Pharmacy.

Code	Title	Hours
Core Requirements (https://catalog.cuw.edu/undergraduate/university/acad-prog/trad/core)		45
Major Requirements		69
Electives		6
Total Hours		120

Major Requirements

A student seeking a degree in Pharmaceutical Sciences must take:

Code	Title	Hours
Required Core Courses		
CHEM 141	General Chemistry I (Natural World, Lab Science 4 credits)	
MATH 205	Statistics I (Natural World, Mathematics 3 credits)	
Required Courses		
BIO 151	Functional Human Biology I	4
BIO 152	Functional Human Biology II	4
CHEM 142	General Chemistry II	4
CHEM 241	Organic Chemistry I	4
CHEM 242	Organic Chemistry II	4
BIO 490	Biology Senior Seminar ¹	2
	or CHEM 490 Chemistry Senior Seminar	
MATH 201	Calculus I	4
PHYS 151	General Physics I	4
	or PHYS 171 University Physics I	
PHYS 152	General Physics II	4
	or PHYS 172 University Physics II	
The Pharmaceutical Sciences Major must also complete at least 7 credits from the following:		7
BIO 191	Human Anat & Phys I (4 credits)	
BIO 192	Human Anat & Phys II (4 credits)	
BIO 260	Microbiology (4 credits)	
BIO 321	Cell Biology (4 credits)	
BIO 348	Genetics (4 credits)	
BIO 351	Immunology (3 credits)	
BIO 420	Molecular Biology (4 credits)	
BIO 430	Pharmacology (3 credits)	
CHEM 425	Biochemistry (4 credits)	
CHEM 426	Advanced Biochemistry (4 credits)	

The pharmaceutical sciences major must also complete the following 28 credits in the pharmacy curriculum as a Doctor of Pharmacy Student

PHAR 310	Pharmacy Biochemistry	4
PHAR 312	Pharmacy Anat and Phys	5
PHAR 314	Pharmacy Microbiology	4
PHAR 320	Pharmaceutics I	2
PHAR 322	Pharmaceutics II	4
PHAR 330	Pharmacology I	3
PHAR 340	Pharmacy&Healthcare System	3
PHAR 350	Pharmacotherapy I:Self Care	2
PHAR 352	Pharmacy Calculations	1
Total Hours		69

¹ Either BIO 490 or CHEM 490 can be taken, 1 credit each semester.