

PHARMACEUTICAL SCIENCE MAJOR (PHARM.BS)

3 or 4 Years at WVWC followed by 1 year at West Virginia University or comparable pharmacy graduate program

Option 1: At least 1 year high school chemistry

<u>Required Courses</u>		<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
BIOL 163/163L	Prin of Molecular Biology + lab	3/1		Fr
BIOL 164/164L	Princ of Organismal Biology + lab	3/1	Grade of C- or better in BIOL 163	Fr
	OR			
BIOL 163/163L	Prin of Molecular Biology + lab	3/1		Fr
BIOL 250/250L	Genetics + lab	3/1	C- or better in BIOL 163, BIOL 164	Fr
BIOL 252/252L	Physiology + lab	3/1	BIOL 254 or P/I	Jr
BIOL 360/360L	Prin of Microbiology + lab	3/1	BIOL 254; CHEM 221, 223L	Jr
CHEM 131	Gen Chemistry for Sci Majors I	3	*Corereq CHEM 133L	Fr
<i>*Prerequisite: Must have passed at least one year of high school chemistry or one semester of college chemistry equivalent to CHEM 105/107L or above AND at least one of the following: MATH ACT score of 20, MATH SAT score of 500, grade of C or better in one of the classes: MATH 103, 110, 112, 115, 130, 161.</i>				
CHEM 133L	Gen Chemistry for Sci Majors I Lab	1	Corereq CHEM 131	Fr
CHEM 132	Gen Chemistry for Sci Majors II	3	C- or better in CHEM 131, 133L;	Fr
			Coreq CHEM 134L	
CHEM 134L	Gen Chemistry for Sci Majors II Lab	1	Coreq CHEM 132	Fr
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 131, 133L,	Soph
			132, 134L; Coreq CHEM 223L	
CHEM 223L	Organic Chemistry I Lab	1	C- or better in CHEM 131, 133L,	
			132, 134L; Coreq CHEM 221	
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L;	Soph
			Coreq CHEM 224L	
CHEM 224L	Organic Chemistry II Lab	1	C- or better in CHEM 221, 223L;	Soph
			Coreq CHEM 222	
CHEM 231	Analytical Chemistry	3	C- or better in CHEM 131, 132,	Soph
			133L, 134L; Coreq CHEM 233L	
CHEM 233L	Analytical Chemistry Lab	1	CHEM 131, 132, 133L, 134L; Soph	
			Coreq CHEM 231	
CHEM 279	Pharmacy Seminar	1	Min grade of C in CHEM 221	Soph
CHEM 301	Laboratory Safety Management	1	CHEM 222, 224L or P/I	Jr
CHEM 320	Physical Chemistry	3	C- or better in CHEM 231,	Jr
			233L; MATH 161 or 162; Coreq	
			CHEM 322L	
CHEM 322L	Physical Chemistry Lab	1	C- or better in CHEM 231, 233L;	Jr
			MATH 161 or 162; Coreq CHEM 320	
CHEM 350	Biochemistry	3	C- or better in CHEM 222, 224L	Jr
CHEM 351L	Biochemistry Lab	1	C- or better in CHEM 222, 224L;	Jr
			Coreq CHEM 350	
CHEM 370	Adv Chemistry Topics	2	CHEM 222, 224L, 231, 233L	Jr
CHEM 397/399	Summer Research or Research	0-2	CHEM 221, 223L, 231, 233L; Jr	
			Pre or coreq CHEM 301	
CHEM 401	Final Year Portfolio Showcase	1		Sr
^CHEM 497	Seminar	2	Sr chem major or P/I; Coreq	Jr
			CHEM 401	
MATH 115	Elementary Statistics	3		Fr
MATH 161	Calculus I	4	C or better in MATH 130	
			or placement	
PHYS 151/151L	General Physics I + lab	3/1	Official math placement or P/I	Fr
	OR			
PHYS 161/151L	General Physics I w/Calculus + lab	3/1	Pre or coreq MATH 161	
PHYS 152/152L	General Physics II + lab	3/1	Official math placement or P/I	Fr
	OR			
PHYS 162/152L	General Physics II w/ Calculus + lab	3/1	Pre or coreq MATH 161	Fr

*66-68 total hours

*In addition, 18 hours from West Virginia University School of Pharmacy or a comparable pharmacy program approved by WVWC Chemistry and Biochemistry Department are required to complete this major.

Specific required general studies courses include PHIL 230, ECON 120 and PSYC 101.

For a student to be admitted into Wesleyan's 3-year recommended plans of study for the Pharmaceutical Science major, he/she must enter Wesleyan having met the following criteria: minimum ACT math score of 26 or SAT Math score of 600; minimum composite score of 27 ACT or SAT composite of 1800; and a cumulative high school GPA of 3.5.

Completion of the Wesleyan portion of the requirements does not guarantee matriculation into the WVU School of Pharmacy. Students must formally apply, have a satisfactory Wesleyan GPA, achieve a satisfactory PCAT score, and successfully interview.

^Satisfies advanced writing requirement