

## PHARMACEUTICAL SCIENCE MAJOR (PHARM.BS)

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

Option II: More than year of high school chemistry

<u>Required Courses</u>		<u>Hrs.</u>	<u>Prereq.</u>	<u>Rec.Yr.</u>
BIOL 163	Principles of Molecular Biology	4		Fr
BIOL 164	Principles of Organismal Biology	4	Grade of C- or better in BIOL 163	Fr
OR				
BIOL 163	Principles of Molecular Biology	4		Fr
BIOL 250	Genetics	4	Grade of C- or better in BIOL 163, BIOL 164	Fr
BIOL 252	Physiology	4	Grade of C- or better in BIOL 163, BIOL 164	Jr
BIOL 360	Principles of Microbiology	4	BIOL 250; CHEM 221, 223L	Jr
CHEM 161	Accel Gen Chem for Sci Majors	3	One year HS chemistry and prof; Coreq CHEM 163L	Fr
CHEM 163L	Accel Gen Chem for Sci Maj Lab	1	One year HS chemistry and prof; Coreq CHEM 161	Fr
CHEM 221	Organic Chemistry I	3	C- or better in CHEM 131, 133L, 132, 134L;Coreq CHEM 223L	Soph
CHEM 223L	Organic Chemistry I Lab	1	C- or better in CHEM 131, 133L, 132, 134L; Coreq CHEM 221	Soph
CHEM 222	Organic Chemistry II	3	C- or better in CHEM 221, 223L; Coreq CHEM 224L	Soph
CHEM 224L	Organic Chemistry II Lab	1	C- or better in CHEM 221, 223L; Coreq CHEM 222	Soph
CHEM 231	Analytical Chemistry	3	C- or better in CHEM 131, 132, 133L,134L;Coreq CHEM 233L	Soph
CHEM 233L	Analytical Chemistry Lab	1	C- or better in CHEM 131, 132, 133L, 134L;Coreq CHEM 231	Soph
CHEM 279	Pharmacy Seminar	1	Min grade of C in CHEM 221	Soph
CHEM 301	Laboratory Safety Management	1	CHEM 222, 224L	Jr
CHEM 320	Physical Chemistry	3	C- or better in CHEM 231, 233L; MATH 161 or 162; Coreq CHEM 322L	Jr
CHEM 322L	Physical Chemistry Lab	1	C- or better in CHEM 231, 233L; MATH 161 or 162; Coreq CHEM 320	Jr
CHEM 350	Biochemistry I	3	C- or better in CHEM 222, 224L	Jr
CHEM 351L	Biochemistry I Lab	1	C- or better in CHEM 222, 224L; Coreq CHEM 350	Jr
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; Pre or coreq CHEM 301	Jr
^CHEM 497	Seminar	2	Sr status chem major or P/I	Jr
MATH 115	Elementary Statistics	3		Fr
MATH 161	Calculus I	4	C or better in MATH 130 or placement	
PHYS 151	General Physics I	4	Official math placement or P/I	Fr
OR				
PHYS 161	General Physics I w/Calculus	4	Pre or coreq MATH 161	Fr
PHYS 152	General Physics II	4	Official math placement or P/I	Fr
OR				
PHYS 162	General Physics II w/ Calculus	4	Pre or coreq MATH 161	Fr

\*61-63 total hours

^Satisfies advanced writing requirement

\*In addition, 18 hrs from the West Virginia University School of Pharmacy or a comparable pharmacy graduate program approved by WVWC Dept. of Chemistry and Biochemistry Dept 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.

NAME: \_\_\_\_\_

**B.S. Degree: Pharmaceutical Science Major (for students entering in Fall 2023/Spring 2024)**  
**3 or 4 Years at WV Wesleyan College followed by 1 year at West Virginia University or comparable pharmacy graduate program**

In the "WHAT" column, enter the specific course number when applicable--e.g. HIST 121. In the "WHEN" column, enter the term and year in which the requirement is satisfied--e.g., sp '20.

		General Education
WHAT	WHEN	
_____	_____	ENGL 101* w/ C (2.0) [3 hrs]
_____	_____	ENGL 110 w/ C (2.0)* [3 hrs]
_____	_____	COMM 211 w/ C (2.0) [3 hrs]
		Dept senior seminar/writing course
		Met by: _____ CHEM 497 [2 hrs]
_____	_____	FYEX 101 [3 hrs]
_____	_____	FYEX 102 [1 hr]
_____	_____	FYEX 103/104/105/106/107 [1 hr]
_____	_____	FYEX 103/104/105/106/107 [1 hr]
_____	_____	FYEX 401 [3 hrs]
_____	_____	Foundational Scientific Inquiry [3-4 hrs]
_____	_____	Foundational Quantitative Analysis [3-4 hrs]

*No more than two lens courses may come from same departmental prefix and one lens must be taken at 300 level or above.*

_____	_____	Ethical/Spiritual Explor Lens (ETSP) [3 hrs]
_____	_____	Aesthetic Expression Lens (AEXP) [3 hrs]
_____	_____	Per & Soc Well Being Lens (PSWB) [3 hrs]
_____	_____	Cultural Perspectives Lens (CEXP) [3 hrs]
_____	_____	Experimental Inquiry Lens (EXIN) [3 hrs]

36 - 42 Total semester hours

\_\_\_\_\_ 120 semester hours required for graduation

\*Enter NA (not applicable) if waived upon admission

		Pharmaceutical Science Major
		Option 2: At least 1 yr high school chemistry
WHAT	WHEN	
_____	_____	BIOL 163 [4 hrs]
_____	_____	BIOL 164 [4 hrs]
		OR
_____	_____	BIOL 163 [4 hrs]
_____	_____	BIOL 250 [4 hrs]
_____	_____	BIOL 252 [4 hrs]
_____	_____	BIOL 360 [4 hrs]
_____	_____	CHEM 1611 [3 hrs]
_____	_____	CHEM 163L [1 hr]
_____	_____	CHEM 221 [3 hrs]
_____	_____	CHEM 223L [1 hr]
_____	_____	CHEM 222 [3 hrs]
_____	_____	CHEM 224L [1 hr]
_____	_____	CHEM 231 [3 hrs]
_____	_____	CHEM 233L [1 hr]
_____	_____	CHEM 279 [1 hr]
_____	_____	CHEM 301 [1 hr]
_____	_____	CHEM 320 [3 hrs]
_____	_____	CHEM 322L [1 hr]
_____	_____	CHEM 350 [3 hrs]
_____	_____	CHEM 351L [1 hr]
_____	_____	CHEM 370 [2 hrs]
_____	_____	CHEM 397/399 [0-2 hrs]
_____	_____	CHEM 497 [2 hrs]
_____	_____	MATH 115 [3 hrs]
_____	_____	MATH 161 [4 hrs]
_____	_____	PHYS 151/161 [4 hrs]
_____	_____	PHYS 152/162 [4 hrs]
_____	_____	61-63 semester hours

➤ In addition, 18 hrs from WVU School of Pharmacy approved by WVWC Chemistry Dept are required to complete this degree.

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

➤ Except in specifically approved majors, a maximum of 52 hours in an academic discipline may count toward graduation. Three hours over the limit may count to accommodate an internship in the discipline.

➤ Only six hours of any minor may overlap with the required credit hours of a student's chosen major. The overlap constraint is not applicable to courses that majors or minors MUST take in others departments.

➤ Refer to admission requirements in the catalog.