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

Required Courses		Hrs.	Prereq.	Rec.Yr.
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
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; Coreq CHEM 134L	Fr
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, 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	
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	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 or P/I	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	3	C- or better in CHEM 222, 224L	Jr
CHEM 351L	Biochemistry Lab	1	C- or better inCHEM 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 401	Final Year Portfolio Showcase	1		Sr
^CHEM 497	Seminar	2	Sr chem major or P/I;Coreq CHEM 401	Jr
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

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.

*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

NAME: _____

B.S. Degree: Pharmaceutical Science Major (for students entering in Fall 2026/Spring 2027)
3 or 4 Years at WV Wesleyan College followed by 1 year at West Virginia University or a 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.

Liberal Arts Core

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]
_____	_____	Foundational Scientific Inquiry [3-4 hrs]
_____	_____	Foundational Quantitative Analysis [3-4 hrs]
_____	_____	Foundational Humanities & Liberal Arts [3 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]
		39 - 41 Total semester hours
	_____	120 semester hours required for graduation

*Enter NA (not applicable) if waived upon admission

➢ 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.

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For students classified as transfers, FYEX course requirements are dependent upon total transferrable credit hours.

Pharmaceutical Science Major

Option 1: Less than 1 yr high school chemistry

WHAT	WHEN	
	_____	BIOL 163+163L [4 hrs]
	_____	BIOL 164+164L [4 hrs]
		OR
	_____	BIOL 163+163L [4 hrs]
	_____	BIOL 250+250L [4 hrs]
	_____	BIOL 252+252L [4 hrs]
	_____	BIOL 360+360L [4 hrs]
	_____	CHEM 131 [3 hrs]
	_____	CHEM 133L [1 hr]
	_____	CHEM 132 [3 hrs]
	_____	CHEM 134L [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 401 [1 hr]
	_____	CHEM 497 [2 hrs]
	_____	MATH 115 [3 hrs]
	_____	MATH 161 [4 hrs]
	_____	PHYS 151+151L/161+151L [4 hrs]
	_____	PHYS 152+152L/162+152L [4 hrs]
	_____	66 - 68 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.

➢The following limits apply when counting hours applicable toward the 120 required for graduation: 4 hours of physical activity (EXSC) and 8 hours of Music ensemble.

➢Refer to admission requirements in the catalog.