# 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

| Required Courses | | Hrs. | Prereq. | Rec.Yr. |
|---|---|---|---|---|
| BIOL 163/163L | Prin of Molecular Biology + lab | 3/1 | | Fr |
| BIOL 164/164L | Prin 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 | Grade of C- or better in BIOL 163, BIOL 164 | Fr |
| BIOL 252/252L | Physiology + lab | 3/1 | Grade of C- or better in BIOL 163, BIOL 164 | Jr |
| BIOL 360/360L | Prin of Microbiology + lab | 3/1 | 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 401 | Final Year Portfolio Showcase | 1 | Coreq CHEM 399 | Sr |
| ^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 151/151L | General Physics I + lab | 3/1 | Official math placement or P/I | Fr |
| | OR | | | |
| PHYS 161/151L | Gen Physics I w/Calculus + lab | 3/1 | Pre or coreq MATH 161 | Fr |
| PHYS 152/152L | General Physics II + lab | 3/1 | Official math placement or P/I | Fr |
| | OR | | | |
| PHYS 162/152L | Gen Physics II w/ Calculus + lab | 3/1 | Pre or coreq MATH 161 | Fr |

*62-64 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 2026/Spring 2027)**
**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.**

## 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

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

## Pharmaceutical Science Major

Option 2: At least 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 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 401 [1 hr[] |
| | _____ | CHEM 497 [2 hrs] |
| | _____ | MATH 115 [3 hrs] |
| | _____ | MATH 161 [4 hrs] |
| _____ | _____ | PHYS 151+151L/161+1151L [4 hrs] |
| _____ | _____ | PHYS 152+152L/162+152L [4 hrs] |
| | _____ | 62-64 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.