Pre-Pharmacy

Nature of the Program

The primary objective of the Doctor of Pharmacy (PharmD) program is to educate practitioners for current and future roles in the profession of pharmacy. The PharmD program comprises four years of professional study preceded by a minimum of two years of pre-pharmacy coursework in a U.S. or foreign accredited college/university of arts and sciences. To prepare for the professional curriculum, students must complete a pre-pharmacy curriculum that emphasizes the biological and chemical sciences. Additionally, pre-pharmacy students must complete a variety of courses of their choosing in the arts, humanities, and social sciences. An early assurance program, the direct admit pathway program (https://pharmacy.hsc.wvu.edu/student-services/pre-pharmacy/direct-admit-pathway-pre-pharmacy-program/), is available for high-achieving first-time freshmen who wish to pursue a PharmD degree. Students enter a competitive application process in the year prior to intended matriculation to the four year professional curriculum. Details regarding the pre-pharmacy course requirements are found on the major tab.

Undergraduate Admissions

First-time freshmen and undergraduate transfer students may apply through the main WVU application. Applicants should note “pharmacy” as their major of choice. Upon application evaluation, the applicant is automatically admitted to the direct admit pathway (https://pharmacy.hsc.wvu.edu/student-services/pre-pharmacy/direct-admit-pathway-pre-pharmacy-program/) if he, she or they meet the criteria. If the applicant does not meet the requirements for the direct admit pathway (DAP) program, he, she or they are admitted to the Healthcare Pathways with Pharmacy Interest major, formerly known as prepharmacy. Students may continue to update test scores, GPA and other means of meeting the math requirement for the DAP program through May 1, 2023.

PharmD Admissions

Admissions are competitive. Criteria used to evaluate candidates include academic performance, as measured by the grade point averages (GPA) for all the above-noted prerequisite courses and the cumulative GPA achieved in all prior college-level coursework, a personal statement, letters of recommendation, and a personal interview. Prerequisite courses may be taken at an accredited U.S. or foreign institution of higher education and completed with a grade of C or better. Careful consideration is given to those personal qualifications which bear upon the fitness of applicants for the study and practice of the profession of pharmacy.

All applicants must first file an initial electronic application with the Pharmacy College Application Service (PharmCAS). Instructions for completing the application are found on the PharmCAS website: http://www.pharmcas.org/. Application deadlines are subject to change; check PharmCAS, the School of Pharmacy website at http://pharmacy.hsc.wvu.edu or contact the School to verify current deadlines. It is recommended students apply early as the PharmD Program operates on rolling admissions basis.

Each applicant recommended for acceptance is required to pay a deposit of $100 before his or her name is added to the official list of those accepted by the School of Pharmacy. If the applicant enrolls, this sum is applied to the first-semester tuition. If the applicant fails to enroll, this deposit is forfeited.

With enrollment in the School of Pharmacy, all students must comply with the immunization and diagnostic procedures required by the WVU Board of Governors, WVU, the WVU Health Sciences Center, and the School of Pharmacy.

Complete information may be obtained from:

School of Pharmacy Office of Admissions and Student Affairs
WVU Health Sciences Center
P.O. Box 9500
Morgantown, WV 26506-9500

Pharmacy College Admission Test

Completion of the Pharmacy College Admission Test is optional for admission to the School. Test results can only help an applicant’s candidacy. If taking, it is recommended that the student take this test in the summer or fall before making application for admission. Information concerning time and place of the test can be obtained from NCS Pearson, Inc.

PCAT Customer Relations
19500 Bulverde Road
San Antonio, TX 78259
1-800-622-3231 or (210) 339-8710
Fax 1-800-727-0811 or 1-800-999-5941
or http://www.PCATweb.info
**Pre-Pharmacy**

**Personal Interview**

The Admissions Committee requires a personal interview with selected candidates. Interviews are held during the fall and spring semesters at the WVU Health Sciences Center in Morgantown.

**Letters of Recommendation**

A total of three recommendations are required. One academic recommendation is required and must be provided by a course instructor in any of the pre-pharmacy course requirements. The second and third recommendation may be provided by a variety of individuals including a second faculty member or advisor, employer, etc. Please refer to the PharmCAS or the School’s PharmD Admissions page (pharmacy.hsc.wvu.edu/student-services/pharmd-admissions) for a list of appropriate letter sources.

**Admission to Advanced Standing for Transfer Students**

If space is available, students from other accredited schools of pharmacy may be admitted provided they meet the prerequisite course requirements of the WVU School of Pharmacy, have at least a 2.5 professional grade point average, are in good academic and professional standing at the school of origin, and are eligible for continuation toward a degree in pharmacy at the school initially attended. Grades of D in professional courses cannot be transferred.

**Provisional Admission**

An applicant accepted into the first year or an advanced standing transfer student is expected to have met all entrance requirements and satisfactorily completed all pre-pharmacy coursework in progress prior to matriculation. A satisfactory performance in the completion of such coursework is defined as one that is consistent with the student’s previous academic record and must include no grades of D or lower in prerequisite courses. While it is preferred that all prerequisite coursework be completed by the end of the spring term prior to matriculation, it is possible to complete up to two non-sequential prerequisite courses before the start of pharmacy student orientation in the fall semester of matriculation. Failure to do so will result in revocation of the acceptance by the Admissions Committee.

Admitted students must remain free of any violations of local, state, or federal law that would prohibit their ability to obtain an intern license from the West Virginia Board of Pharmacy.

Furnishing or causing to furnish false or incorrect information for the purpose of gaining admission to the School of Pharmacy constitutes grounds for disciplinary action including, but not limited to, expulsion or revocation of acceptance.

Students in the School of Pharmacy agree to abide by the provisions of the Student Code of Academic and Professional Integrity. Upon admission, each student is required to return a signed statement to the Office of Admissions and Student Affairs indicating the student has read and understands the Policy on Academic and Professional Standards and the Student Code of Academic and Professional Integrity of the West Virginia University School of Pharmacy. The code and copies of the statement are available in the Office of Admissions and Student Affairs in the School of Pharmacy and on the School of Pharmacy website.

**Academic and Technical Standards and Policies**

http://pharmacy.hsc.wvu.edu/student-services/pharmd-program/

**ADMISSION REQUIREMENTS 2023-2024**

The Admission Requirements above will be the same for the 2023-2024 Academic Year.

Major Code: 8950

**General Education Foundations**

Please use this link to view a list of courses that meet each GEF requirement. (http://registrar.wvu.edu/gef/)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

**General Education Foundations**

<table>
<thead>
<tr>
<th>F1 - Composition &amp; Rhetoric</th>
<th>3-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to Composition and Rhetoric</td>
</tr>
<tr>
<td>&amp; ENGL 102</td>
<td>and Composition, Rhetoric, and Research</td>
</tr>
<tr>
<td>or ENGL 103</td>
<td>Accelerated Academic Writing</td>
</tr>
<tr>
<td>F2A/F2B - Science &amp; Technology</td>
<td>4-6</td>
</tr>
<tr>
<td>F3 - Math &amp; Quantitative Reasoning</td>
<td>3-4</td>
</tr>
<tr>
<td>F4 - Society &amp; Connections</td>
<td>3</td>
</tr>
</tbody>
</table>
Pre-Pharmacy Curriculum Requirements

### Biochemistry Requirement
Select one of the following:

- AGBI 410 & 410L: Introductory Biochemistry and Introduction to Biochemistry Laboratory
- BIOC 339: Introduction to Biochemistry

### Biology Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 115 &amp; 115L</td>
<td>Principles of Biology and Principles of Biology Laboratory (May fulfill GEF 2)</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 101 &amp; 101L</td>
<td>General Biology 1 and General Biology 1 Laboratory</td>
<td></td>
</tr>
<tr>
<td>&amp; BIOL 102 &amp; 102L</td>
<td>and General Biology 2 Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 117 &amp; 117L</td>
<td>Introductory Physiology and Introductory Physiology Laboratory (May fulfill GEF 8)</td>
<td>4</td>
</tr>
</tbody>
</table>

### Chemistry Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 115 &amp; 115L</td>
<td>Fundamentals of Chemistry 1 and Fundamentals of Chemistry 1 Laboratory (May fulfill GEF 8)</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 116L</td>
<td>Fundamentals of Chemistry 2 and Fundamentals of Chemistry 2 Laboratory (May fulfill GEF 8)</td>
<td></td>
</tr>
<tr>
<td>CHEM 233 &amp; 233L</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 234 &amp; 234L</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

### Economics Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics (May fulfill GEF 4)</td>
<td>3</td>
</tr>
</tbody>
</table>

### English Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101</td>
<td>Introduction to Composition and Rhetoric (May fulfill GEF 1)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Composition, Rhetoric, and Research (May fulfill GEF 1)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Math Requirement
Select one of the following (May fulfill GEF 3):

- MATH 150: Applied Calculus
- MATH 153 & MATH 154: Calculus 1a with Precalculus and Calculus 1b with Precalculus
- MATH 155: Calculus 1

### Microbiology Requirement
Select one of the following:

- AEM 341 & 341L: General Microbiology and General Microbiology Laboratory
- AEM 401 & 401L: Environmental Microbiology and Environmental Microbiology Laboratory
- MICB 200: Medical Microbiology

### Physiology Requirement

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSIO 241</td>
<td>Elementary Physiology</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 235</td>
<td>Human Physiology</td>
<td></td>
</tr>
</tbody>
</table>

### Public Speaking Requirement

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.
WVUE 270  Effective Public Speaking  3
  or COMM 104  Fundamentals of Public Communication

**Statistics Requirement**

STAT 211  Elementary Statistical Inference  3
  or ECON 225  Elementary Business and Economics Statistics

**General University Orientation Requirement**

PHAR 191  First-Year Seminar  **  1

**General Education Foundations**

GEF Requirements 5, 6, 7  9

**Total Hours**  62

* Select BIOL 115 OR BIOL 101, BIOL 101L, BIOL 102 & BIOL 102L. BIOL 115 is preferred.

** PHAR 191 and PHAR 199 course registration restricted for Direct Admit Pathway students only.

**SUGGESTED PLAN OF STUDY**

**First Year**

**Fall**  Hours  **Spring**  Hours

BIOL 115  & 115L  4  BIOL 117  & 117L  4
CHEM 115  & 115L  4  CHEM 116  & 116L  4
MATH Requirement  3  ENGL 101  3
WVUE 270 or COMM 104  3  STAT 211 or ECON 225  3
PHAR 191 or WVUE 191  **  1  GEF #5  3

15 18-19

**Second Year**

**Fall**  Hours  **Spring**  Hours

Select one of the following:
  AEM 341  & 341L  3  Select one of the following:
  AGBI 410  & 410L
  AEM 401  & 401L  BIOC 339
  MICB 200

CHEM 233  & 233L  4  BIOL 235 or PSIO 241  3
ENGL 102  3  GEF #7  3
ECON 201  3
GEF #6  3

16 13

**Total credit hours: 62-63**

**COURSES**

PHAR 191.  First-Year Seminar. 1-3 Hours.
Engages students in active learning strategies that enable effective transition to college life at WVU. Students will explore school, college and university programs, policies and services relevant to academic success. Provides active learning activities that enable effective transition to the academic environment. Students examine school, college and university programs, policies and services.

PHAR 199.  Orientation to Pharmacy 1-2 Hr. 1,2 Hour.
Orientation to degree programs and requirements, departmental resources, curriculum options, student responsibilities, and opportunities.

PHAR 497.  Research. 1-6 Hours.
PR: Consent. Research activities leading to thesis, problem report, research paper or equivalent scholarly project, or a dissertation.
PHAR 498. Honors. 1-3 Hours.
PR: Students in Honors Program and consent by the honors director. Independent reading, study or research.