Pre-Pharmacy

The primary objective of the Doctor of Pharmacy (Pharm.D.) program is to educate practitioners for current and future roles in the profession of pharmacy. The Pharm.D. program comprises four years of professional study preceded by a minimum of two years of pre-pharmacy coursework in a U.S. or Canadian accredited college of arts and sciences. To prepare for the professional curriculum, students must complete a pre-pharmacy curriculum that emphasizes the biological and chemical sciences. In addition, pre-pharmacy students must complete a variety of courses of their choosing in the arts, humanities, and social sciences. Student will go through a competitive application process in the year prior to intended matriculation to the four year professional curriculum. Details regarding the pre-pharmacy course requirements can be found on the major tab.

Pharm.D. Admissions

Admissions are competitive. It should be noted that applicants with overall or prerequisite GPAs below 3.0 are not admitted. 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, Pharmacy College Admissions Test (PCAT) scores (including a written essay), a personal interview, and letters of recommendation. All prerequisite courses must be taken at a U.S. or Canadian accredited institution of higher education and completed with a grade of C or better. Coursework completed outside the U.S. or Canada will not be considered for admission. Priority is given to qualified West Virginia residents, applicants who have performed the majority of their prerequisite coursework in a West Virginia college or university, and applicants who have already earned a bachelors degree. 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. Supplemental applications specific to the WVU School of Pharmacy will then be sent to selected candidates deemed qualified by the Committee on Admissions. A $50 application fee must accompany the supplemental application.

Each applicant who is recommended for acceptance is required to pay a deposit of $400 (if WV resident) or $800 (if non-WV resident) 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 Robert C. Byrd Health Sciences Center, and the School of Pharmacy.

Complete information may be obtained from:

School of Pharmacy Office of Student Services
WVU Robert C. Byrd Health Sciences Center
P.O. Box 9500
Morgantown, WV 26506-9500

or from:
Office of Admissions WVU Robert C. Byrd Health Sciences Center P.O. Box 9815 Morgantown, WV 26506-9815

Pharmacy College Admission Test

Completion of the Pharmacy College Admission Test is a requirement for admission to the School. 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 a pre-pharmacy advisor, the School of Pharmacy, or by writing:

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

Personal Interview

The Committee on Admissions requires a personal interview with selected candidates who qualify for a supplemental application. The Committee on Admissions will determine which applicants are to receive the supplemental application. Interviews are held during the spring semester at the WVU Robert C. Byrd Health Sciences Center in Morgantown.

Recommendations on Academic Performance

Two academic recommendations are required and must be provided by course instructors in any two of the pre-pharmacy science areas: biology, chemistry, math, and physics. The third recommendation may be provided by a variety of individuals. Please refer to the PharmCAS website for more detailed information.
Early Decision

The Early Decision program is a binding option for applicants who have decided that West Virginia University is the degree program of their first choice and that they will enroll if accepted. As an Early Decision applicant, you can apply to only one pharmacy degree program.

The Early Decision application deadline is typically the first of September. In addition to completing the PharmCAS application, you must arrange for PharmCAS to receive all of your official transcripts and fee by the September deadline. If your application, transcripts, or fee arrives after the deadline, PharmCAS will automatically change your file from early decision status to regular status.

You may be offered early admission, denied admission, or deferred to regular applicant status. If you are offered admission as an Early Decision applicant, you are obligated to accept the offer and you will not be permitted to apply to other PharmCAS institutions. If, however, you are denied admission as an Early Decision applicant, you may apply to other PharmCAS institutions for an additional fee. Refer to the PharmCAS application fee schedule to determine the cost to apply to each additional program. PharmCAS institutions will make admission decisions on early decision applicants by mid October.

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.

Conditions Following Acceptance of 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 or, if a transfer student prior to transfer. 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.

Applicants 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 Student Services 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 Student Services in the School of Pharmacy, and on the School of Pharmacy website.

Academic and Technical Standards

Please see this section under the Pharm.D. program heading for details.

GENERAL EDUCATION CURRICULUM

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

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

General Education Curriculum

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 &amp; ENGL 102 or ENGL 103</td>
<td>Composition and Rhetoric and Composition and Rhetoric</td>
<td>3-6</td>
</tr>
<tr>
<td>GEC 2A - Mathematics</td>
<td></td>
<td>3-4</td>
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<tr>
<td>GEC 2B - Natural and Physical Science</td>
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<td>7-8</td>
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<tr>
<td>GEC 2C - Additional GEC 2A, B or C</td>
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<td>3</td>
</tr>
<tr>
<td>GEC 3 - The Past and Its Traditions</td>
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<td>3</td>
</tr>
<tr>
<td>GEC 4 - Issues of Contemporary Society</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GEC 5 - Artistic Expression</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>GEC 6</td>
<td>The Individual in Society</td>
<td>3</td>
</tr>
<tr>
<td>GEC 6F</td>
<td>First Year Seminar</td>
<td>1-3</td>
</tr>
<tr>
<td>GEC 7</td>
<td>American Culture</td>
<td>3</td>
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<tr>
<td>GEC 8</td>
<td>Western Culture</td>
<td>3</td>
</tr>
<tr>
<td>GEC 9</td>
<td>Non-Western Culture</td>
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<tr>
<td><strong>Total Hours</strong></td>
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<td><strong>38-45</strong></td>
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**Pre-Pharmacy Curriculum Requirements**

**Biochemistry Requirement**
Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGBI 410</td>
<td>Introductory Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOC 339</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 115</td>
<td>Principles of Biology (BIOL 115 preferred)</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 101</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 102</td>
<td>General Biology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 103</td>
<td>General Biology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 104</td>
<td>General Biology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 117</td>
<td>Introductory Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 215</td>
<td>Cell Biology for Pre-Pharmacy</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 115</td>
<td>Fundamentals of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 116</td>
<td>Fundamentals of Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Organic Chemistry</td>
<td>4</td>
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<tr>
<td>&amp; CHEM 235</td>
<td>Organic Chemistry Laboratory</td>
<td>4</td>
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<tr>
<td>CHEM 234</td>
<td>Organic Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>&amp; CHEM 236</td>
<td>Organic Chemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>Composition and Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>Composition and Rhetoric (ENGL 103 replaces ENGL 101 &amp; 102)</td>
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**Math Requirement**
Select one of the following: 3-8

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 150</td>
<td>Applied Calculus</td>
<td>3</td>
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<tr>
<td>MATH 153</td>
<td>Calculus 1a with Precalculus</td>
<td>3</td>
</tr>
<tr>
<td>&amp; MATH 154</td>
<td>Calculus 1b with Precalculus</td>
<td>3</td>
</tr>
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<td>MATH 155</td>
<td>Calculus 1</td>
<td>3</td>
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**Microbiology Requirement**
Select one of the following: 3-4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AEM 341</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>AEM 401</td>
<td>Environmental Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MICB 200</td>
<td>Medical Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>CSAD 270</td>
<td>Effective Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Elementary Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 225</td>
<td>Elementary Business and Economics Statistics</td>
<td>3</td>
</tr>
<tr>
<td>WVUE 191</td>
<td>First Year Seminar (or equivalent)</td>
<td>1</td>
</tr>
</tbody>
</table>

**General Education Curriculum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEC Requirements #3, 5, 7, and 9</td>
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<td>12</td>
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</table>

**Total Hours** 64-71

* BIOL 219 (4 cr. hrs.) may be taken in place of BIOL 215 for biology majors only. If cell biology is not available at your institution, please contact the WVU School of Pharmacy Office of Student Services (304-293-1552) for an alternative course.
**SUGGESTED PLAN OF STUDY**

### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
<th>Summer</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 115</td>
<td>4</td>
<td>BIOL 117</td>
<td></td>
<td>4 Only required for students who took Math 153 in the Fall semester</td>
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<tr>
<td>BIOL 115</td>
<td>4</td>
<td>CHEM 116</td>
<td></td>
<td>4</td>
<td>MATH 154</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
<td>GEC #3</td>
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<td>3</td>
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<tr>
<td>MATH 150</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 153</td>
<td></td>
<td></td>
<td>STAT 211 or ECON 225</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>MATH 155</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSAD 270</td>
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<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WVUE 191 (or equivalent)</td>
<td></td>
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<td>1</td>
<td></td>
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</tbody>
</table>

15-16 17 4

### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td>Select one of the following:</td>
<td>3-4</td>
</tr>
<tr>
<td>AEM 341</td>
<td></td>
<td>AGBI 410</td>
<td></td>
</tr>
<tr>
<td>AEM 401</td>
<td></td>
<td>BIOC 339</td>
<td></td>
</tr>
<tr>
<td>MICB 200</td>
<td></td>
<td>CHEM 234</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 215</td>
<td></td>
<td>3 CHEM 236</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 219 (4 cr. hrs.) may be taken in place of BIOL 215 for biology majors only. If cell biology is not available at your institution, please contact the WVU School of Pharmacy Office of Student Services (304-293-1552) for an alternative course.</td>
<td></td>
<td>ECON 201</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>3</td>
<td>GEC #7</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 235</td>
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<td>GEC #9</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 102</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEC #5</td>
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16-17 16-17 16-17

Total credit hours: 68-71