Pre-Pharmacy

Degree Offered

• Associate of Arts

Nature of the Program

The associate of arts in pre-pharmacy program fulfills the course requirements necessary for admittance to the Pharm D program at West Virginia University School of Pharmacy. Admission is competitive, and preference is given to qualified West Virginians, although outstanding nonresident applicants are considered. Students planning to apply to a pharmacy program at another institution should determine the admission requirements and transfer equivalencies for the courses offered at Potomac State College of WVU and that institution.

Pre-Pharmacy students should (1) complete the Pharmacy College Admissions Test (PCAT) in the fall of their sophomore year, and (2) apply for admission to the WVU School of Pharmacy via PharmCAS as early as possible after January 1 of their sophomore year. Consult the WVU Health Sciences Center Catalog for further information.

The pre-pharmacy program provides the foundation in biology, chemistry, and math required for admission into and success in the Pharm D program.

Career Opportunities

Pharmacists fill prescriptions, instruct patients on safe use of prescriptions, conduct health and wellness screenings, monitor drug interactions, provide immunizations and perform other duties at retail pharmacies, hospital pharmacies and at home health care facilities.

FACULTY

CHAIR

• Vicki Huffman - Ph.D. Biomedical Science

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>General Education Foundations</th>
<th>3-6</th>
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<tbody>
<tr>
<td>ENGL 101 &amp; ENGL 102 or ENGL 103</td>
<td>Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing</td>
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<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>
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<tr>
<td>F4 - Society &amp; Connections</td>
<td>3</td>
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<tr>
<td>F5 - Human Inquiry &amp; the Past</td>
<td>3</td>
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<tr>
<td>F6 - The Arts &amp; Creativity</td>
<td>3</td>
</tr>
<tr>
<td>F7 - Global Studies &amp; Diversity</td>
<td>3</td>
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<tr>
<td>F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)</td>
<td>9</td>
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<tr>
<td>Total Hours</td>
<td>31-37</td>
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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.

Curriculum Requirements

<table>
<thead>
<tr>
<th>GEF Elective Requirements (5, 6, or 7)</th>
<th>6</th>
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<tbody>
<tr>
<td>ENGL 101 &amp; ENGL 102</td>
<td>Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research (GEF 1)</td>
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<tr>
<td>MATH 150</td>
<td>Applied Calculus (or higher - GEF 3)</td>
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<tr>
<td>STAT 211</td>
<td>Elementary Statistical Inference</td>
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</tbody>
</table>
BIOL 115 Principles of Biology 4
& BIOL 116 and Principles of Biology Laboratory (GEF 2)
MICB 200 Medical Microbiology 3
BIOL 117 Introductory Physiology 4
& BIOL 118 and Introductory Physiology Laboratory (GEF 8)
BIOL 216 Biochemistry for Pre-Pharmacy 3
CHEM 115 Fundamentals of Chemistry 4
& 115L and Fundamentals of Chemistry 1 - Laboratory (GEF 8)
CHEM 116 Fundamentals of Chemistry 4
& 116L and Fundamentals of Chemistry 2 - Laboratory
CHEM 233 Organic Chemistry 4
& CHEM 235 and Organic Chemistry Laboratory
CHEM 234 Organic Chemistry 4
& CHEM 236 and Organic Chemistry Laboratory
CSAD 270 Effective Public Speaking (GEF 4) 3
ECON 201 Principles of Microeconomics 3
PSIO 241 Elementary Physiology 4
WVUE 191 First Year Seminar 1
Elective 1
Total Hours 60

Suggested Plan of Study

First Year
Fall
ENGL 101 (GEF 1) 3
MATH 150 (or higher - GEF 3) 3
CHEM 115 4
& 115L (GEF 8) 4
BIOL 115 4
& BIOL 116 (GEF 2) 4
WVUE 191 1

Hours Spring
3 ENGL 102 (GEF 1) 3
3 STAT 211 3
4 CHEM 116 4
& 116L (GEF 8) 4
4 BIOL 117 4
& BIOL 118 (GEF 8) 4
1 CSAD 270 (GEF 4) 3

Second Year
Fall
ECON 201 3
CHEM 233 4
& CHEM 235 4
MICB 200 3
GEF 5, 6, or 7 3

Hours Spring
3 BIOL 216 3
4 CHEM 234 4
& CHEM 236 4
3 PSIO 241 4
3 GEF 5, 6, or 7 3
UGST 270 (or Elective) 1

Total credit hours: 60

Major Learning Outcomes

PRE-PHARMACY

Upon completion of the associates in pre-pharmacy program, students will be able to:

1. Apply the scientific method to solving problem by formulating a hypothesis, design effective laboratory experiments, perform laboratory experiments, collect and analyze data statistically and graphically, interpret data, arrive at a conclusion, and report their results utilizing scientific writing.
2. Describe the relationship between the structure and function of cells and investigate cellular properties through various laboratory techniques.
3. Use chemical principles and laboratory techniques to describe and analyze the chemical structure and reactivity of organic molecules.
4. Use mathematical concepts to solve problems.
5. Apply for admission into the Pharm D program at the WVU School of Pharmacy or equivalent program.