

# Pre-Pharmacy, A.S.

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## Degree Offered

- Associate of Science

## Nature of the Program

The associate of science in pre-pharmacy program fulfills the course requirements necessary for admittance to the doctorate of pharmacy (PharmD) 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 WVU Potomac State College and that institution.

Pre-Pharmacy students planning to apply to the WVU School of Pharmacy apply for admission using PharmCAS, and normally apply during their sophomore year. For more information about that program, visit <https://pharmacy.wvu.edu/>.

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.

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## FACULTY

### CHAIR

- Erin Cunningham - M.S. Biology  
Year @ PSC 2007

## 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.

Code	Title	Hours
<b>General Education Foundations</b>		
F1 - Composition & Rhetoric		3-6
ENGL 101 & ENGL 102 or ENGL 103	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing	
F2A/F2B - Science & Technology		4-6
F3 - Math & Quantitative Reasoning		3-4
F4 - Society & Connections		3
F5 - Human Inquiry & the Past		3
F6 - The Arts & Creativity		3
F7 - Global Studies & Diversity		3
F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)		9
Total Hours		31-37

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

Code	Title	Hours
<b>GEF Elective Requirements (6 or 7)</b>		<b>6</b>
ENGL 101 & ENGL 102	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research (GEF 1)	6

MATH 150	Applied Calculus (or higher - GEF 3)	3
STAT 211	Elementary Statistical Inference	3
BIOL 115 & 115L	Principles of Biology and Principles of Biology Laboratory (GEF 2)	4
BIOL 117 & 117L	Introductory Physiology and Introductory Physiology Laboratory (GEF 8)	4
MICB 200	Medical Microbiology	3
AGBI 410	Introductory Biochemistry	3
CHEM 115 & 115L	Fundamentals of Chemistry 1 and Fundamentals of Chemistry 1 Laboratory (GEF 8)	4
CHEM 116 & 116L	Fundamentals of Chemistry 2 and Fundamentals of Chemistry 2 Laboratory	4
CHEM 233 & 233L	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
CHEM 234 & 234L	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
COMM 104	Fundamentals of Public Communication (GEF 5)	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	Hours	Spring	Hours
ENGL 101 (GEF 1)		3 ENGL 102 (GEF 1)	3
MATH 150 (or higher - GEF 3)		3 STAT 211	3
CHEM 115 & 115L (GEF 8)		4 COMM 104 (GEF 5)	3
BIOL 115 & 115L (GEF 2)		4 BIOL 117 & 117L (GEF 8)	4
WVUE 191		1 CHEM 116 & 116L (GEF 8)	4
		15	17

### Second Year

Fall	Hours	Spring	Hours
ECON 201		3 AGBI 410	3
CHEM 233 & 233L		4 CHEM 234 & 234L	4
MICB 200		3 PSIO 241	4
GEF 6 or 7		3 GEF 6 or 7 HLSC 270 (or Elective)	3 1
		13	15

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.