Pre-Veterinary Medicine, A.S.

Degree Offered

• Associate of Science

Nature of the Program

This major has a flexible design allowing students to acquire the necessary first two years of study in agricultural biochemistry, chemistry, mathematics, physics, and modern concepts of biology. Students begin preparation for entrance to professional schools of veterinary medicine, human medicine, dentistry, optometry, pharmacy or graduate study in the fields of agricultural biochemistry, animal breeding, animal physiology and nutrition.

Career Opportunities

Professional positions are available as veterinarians, human medical doctors, dentists, optometrists and pharmacists. Other career opportunities include: federal or state agencies, food and animal production and processing, research, and agricultural sales.

FACULTY

CHAIR

• Dr. Heidi B. Samuels - Ed. D. Educational Leadership
  Year @ PSC (2006)

Admissions

Entering freshmen are admitted directly into the major.

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

F1 - Composition & Rhetoric 3-6
  ENGL 101 Introduction to Composition and Rhetoric
  & ENGL 102 and Composition, Rhetoric, and Research
  or ENGL 103 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

GEF Elective Requirements (5, 6, and 7) 9

<table>
<thead>
<tr>
<th>Course</th>
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<td>ENGL 101</td>
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<td>&amp; ENGL 102</td>
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<tr>
<td>or ENGL 103</td>
<td>Accelerated Academic Writing</td>
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Select one of the following (GEF 3): 3

<table>
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<tr>
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<tr>
<td>MATH 124</td>
<td>Algebra with Applications</td>
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<tr>
<td>MATH 126</td>
<td>College Algebra</td>
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### MATH 128
Plane Trigonometry (if needed, or GEF 8)

### BIOL 115
Principles of Biology

### & 115L
and Principles of Biology Laboratory

### BIOL 117
Introductory Physiology

### & 117L
and Introductory Physiology Laboratory

### CHEM 115
Fundamentals of Chemistry 1

### & 115L
and Fundamentals of Chemistry 1 Laboratory

### CHEM 116
Fundamentals of Chemistry 2

### & 116L
and Fundamentals of Chemistry 2 Laboratory

### CHEM 233
Organic Chemistry 1

### & 233L
and Organic Chemistry 1 Laboratory

### CHEM 234
Organic Chemistry 2

### & 234L
and Organic Chemistry 2 Laboratory

### PHYS 101
Introductory Physics 1

### & 101L
and Introductory Physics 1 Laboratory (GEF 2)

### PHYS 102
Introductory Physics 2

### & 102L
and Introductory Physics 2 Laboratory (GEF 8)

### A&VS 150
Introduction to Animal Science

### A&VS 251
Principles of Animal Science

### & 251L
and Principles of Animal Science Laboratory

### AGRL 191
First-Year Seminar

Total Hours: 60

### Suggested Plan of Study

#### First Year

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<th>Spring</th>
<th>Hours</th>
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<td>MATH 128</td>
<td>3</td>
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#### Second Year

<table>
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<th>Spring</th>
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Total credit hours: 60

### Major Learning Outcomes

**PRE-VETERINARY MEDICINE**

1. Graduates will acquire a high level of competency in the basic sciences required for disciplinary competency.
2. Graduates will integrate basic knowledge and managerial skills related to the animal, nutritional and food sciences disciplines.
3. Graduates will acquire sufficient written and oral communication skills, problem solving and critical thinking skills to effectively impact lifelong societal and professional developments critical to their respective discipline of interest.