Pre-Veterinary Medicine, A.A.

Degree Offered

• Associate of Arts

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

<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>
</tbody>
</table>

| 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

<table>
<thead>
<tr>
<th>GEF Elective Requirements (5, 6, and 7)</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 &amp; ENGL 102</td>
<td>Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research (GEF 1)</td>
</tr>
<tr>
<td>Select one of the following (GEF 3):</td>
<td>3</td>
</tr>
<tr>
<td>MATH 124</td>
<td>Algebra with Applications</td>
</tr>
<tr>
<td>MATH 126</td>
<td>College Algebra</td>
</tr>
<tr>
<td>Course</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>MATH 128</td>
<td>Plane Trigonometry (if needed, or GEF 8)</td>
</tr>
<tr>
<td>MATH 155</td>
<td>Calculus 1</td>
</tr>
<tr>
<td>BIOL 115 &amp; 115L</td>
<td>Principles of Biology and Principles of Biology Laboratory</td>
</tr>
<tr>
<td>BIOL 117 &amp; 117L</td>
<td>Introductory Physiology and Introductory Physiology Laboratory</td>
</tr>
<tr>
<td>CHEM 115 &amp; 115L</td>
<td>Fundamentals of Chemistry 1 and Fundamentals of Chemistry 1 Laboratory</td>
</tr>
<tr>
<td>CHEM 116 &amp; 116L</td>
<td>Fundamentals of Chemistry 2 and Fundamentals of Chemistry 2 Laboratory</td>
</tr>
<tr>
<td>CHEM 233 &amp; 233L</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory</td>
</tr>
<tr>
<td>CHEM 234 &amp; 234L</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory</td>
</tr>
<tr>
<td>PHYS 101 &amp; 101L</td>
<td>Introductory Physics 1 and Introductory Physics 1 Laboratory (GEF 2)</td>
</tr>
<tr>
<td>PHYS 102 &amp; 102L</td>
<td>Introductory Physics 2 and Introductory Physics 2 Laboratory (GEF 8)</td>
</tr>
<tr>
<td>A&amp;VS 150</td>
<td>Introduction to Animal Science</td>
</tr>
<tr>
<td>A&amp;VS 251 &amp; 251L</td>
<td>Principles of Animal Science and Principles of Animal Science Laboratory</td>
</tr>
<tr>
<td>AGRL 191</td>
<td>First-Year Seminar</td>
</tr>
</tbody>
</table>

Total Hours: 64

Suggested Plan of Study

### First Year

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 (GEF 1)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 115 &amp; 115L</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 115 &amp; 115L</td>
<td>4</td>
</tr>
<tr>
<td>A&amp;VS 150</td>
<td>2</td>
</tr>
</tbody>
</table>

Select one of the following (or higher, GEF 3):

- MATH 124
- MATH 126
- MATH 155

AGRL 191 | 1

Total: 17

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 ENGL 102 (GEF 1)</td>
<td>3</td>
</tr>
<tr>
<td>4 BIOL 117</td>
<td>4</td>
</tr>
<tr>
<td>4 CHEM 116 &amp; 116L</td>
<td>4</td>
</tr>
<tr>
<td>2 MATH 128 (or MATH 155)</td>
<td>3</td>
</tr>
<tr>
<td>3 MATH 124</td>
<td>3</td>
</tr>
<tr>
<td>3 MATH 126</td>
<td>3</td>
</tr>
<tr>
<td>3 MATH 155</td>
<td>3</td>
</tr>
<tr>
<td>1 AGRL 191</td>
<td>1</td>
</tr>
</tbody>
</table>

Total: 14

### Second Year

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101 &amp; 101L (GEF 2)</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 233 &amp; 233L</td>
<td>4</td>
</tr>
<tr>
<td>MATH 155</td>
<td>4</td>
</tr>
<tr>
<td>GEF 5</td>
<td>3</td>
</tr>
<tr>
<td>GEF 6</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 18

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 PHYS 102 &amp; 102L (GEF 8)</td>
<td>4</td>
</tr>
<tr>
<td>4 CHEM 234 &amp; 234L</td>
<td>4</td>
</tr>
<tr>
<td>4 A&amp;VS 251 &amp; 251L</td>
<td>4</td>
</tr>
<tr>
<td>3 GEF 7</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 15

Total credit hours: 64
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.