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

GEF Elective Requirements (4, 5, 6, and 7)  12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</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>
<tr>
<td>MATH 126</td>
<td>College Algebra</td>
</tr>
<tr>
<td>MATH 129</td>
<td>Pre-Calculus Mathematics</td>
</tr>
</tbody>
</table>

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.
MATH 128  Plane Trigonometry (if needed, or GEF 8)  3
BIOL 115  Principles of Biology  4
& BIOL 116  and Principles of Biology Laboratory  
BIOL 117  Introductory Physiology  4
& BIOL 118  and Introductory Physiology Laboratory  
CHEM 115  Fundamentals of Chemistry 1  4
& 115L  and Fundamentals of Chemistry 1 - Laboratory  
CHEM 116  Fundamentals of Chemistry 1  4
& 116L  and Fundamentals of Chemistry 2 - Laboratory  
CHEM 233  Organic Chemistry 1  4
& CHEM 235  and Organic Chemistry Laboratory  
CHEM 234  Organic Chemistry 2  4
& CHEM 236  and Organic Chemistry Laboratory 2  
PHYS 101  Introductory Physics 1 (GEF 2)  4
PHYS 102  Introductory Physics (GEF 8)  4
A&VS 150  Introduction to Animal Science  2
A&VS 251  Principles of Animal Science  4
AGRL 112  Professions in Agriculture  1
AGRL 191  First-Year Seminar  1
Total Hours  64

Suggested Plan of Study

First Year

Fall  Hours  Spring  Hours
ENGL 101 (GEF 1)  3  ENGL 102 (GEF 1)  3
BIOL 115  4  BIOL 117  4
& BIOL 116  & BIOL 118  
CHEM 115  4  CHEM 116  4
& 115L  & 116L  
A&VS 150  2  MATH 128  3
Select one of the following (or higher, GEF 3):
   MATH 126
   MATH 129
   3
AGRL 191  1

17  15

Second Year

Fall  Hours  Spring  Hours
PHYS 101 (GEF 2)  4  PHYS 102 (GEF 8)  0 or 4
CHEM 233  4  CHEM 234  4
& CHEM 235  & CHEM 236  
GEF 5  3  A&VS 251  4
GEF 6  3  GEF 4  3
GEF 7  3

17  11-15

Total credit hours: 60-64

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.