Bachelor of Science (BS) Non-Teaching Degree Code 567* Concentration Codes 567 B or C or D

I. CORE CURRICULUM

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 1025</td>
<td>(4)</td>
<td>(ND) or above</td>
</tr>
<tr>
<td>CHE 1101</td>
<td>(3)</td>
<td>(ND) &amp; CHE 1110 (1)</td>
</tr>
<tr>
<td>CHE 1102</td>
<td>(3)</td>
<td>(ND) &amp; CHE 1120 (1)</td>
</tr>
<tr>
<td>PE 1013</td>
<td>(1)</td>
<td>&amp; 1014 (1)</td>
</tr>
<tr>
<td>E S 2000</td>
<td>(5)</td>
<td>Human Anatomy &amp; Physiology</td>
</tr>
<tr>
<td>E S 2005</td>
<td>(3)</td>
<td>Concepts in Fitness &amp; Performance Eval</td>
</tr>
<tr>
<td>E S 2010</td>
<td>(3)</td>
<td>(W) Exercise Physiology</td>
</tr>
<tr>
<td>E S 2020</td>
<td>(3)</td>
<td>(C/ND) Measurement &amp; Evaluation in Exer Sci</td>
</tr>
<tr>
<td>E S 3005</td>
<td>(3)</td>
<td>(S) Physio Assessment &amp; Prog Mgt (C minimum)</td>
</tr>
<tr>
<td>E S 3450</td>
<td>(3)</td>
<td>Advanced Exercise Physiology</td>
</tr>
<tr>
<td>E S 3550</td>
<td>(4)</td>
<td>(C) Introduction to Biomechanics</td>
</tr>
<tr>
<td>E S 4650</td>
<td>(1)</td>
<td>Seminar</td>
</tr>
</tbody>
</table>

Exercise Science Core: (28 sh min)
- E S 2000
- E S 2005
- E S 2010
- E S 2020
- E S 3005
- E S 3450
- E S 3550
- E S 4650

Concentration: Choose one concentration
567 B – Pre-Professional (31 sh)
567 C – Wellness/Cardiac Rehabilitation (31 sh)
567 D – Strength & Conditioning (31 sh)

II. MAJOR REQUIREMENT

An overall 2.0 GPA is required in the major/18 sh must be completed at Appalachian

Allied Core: (20 sh)
- BIO 1101 (4) (ND) Introduction to Life Science
- CHE 2101 (3) Fundamentals of Organic Chemistry
- CHE 2203 (1) Organic Chemistry Lab I
- PHY 1103 (4) (ND) General Physics
- PHY 1104 (4) (ND) General Physics

Exercise Science Core: (28 sh min)
- E S 2000 (5) Human Anatomy & Physiology
- E S 2005 (3) Concepts in Fitness & Performance Evaluation
- E S 2010 (3) (W) Exercise Physiology
- E S 2020 (3) (C/ND) Measurement & Evaluation in Exercise Science
- E S 3005 (3) (S) Physio Assessment & Prog Mgt (C minimum)
- E S 3450 (3) Advanced Exercise Physiology
- E S 3550 (4) (C) Introduction to Biomechanics
- E S/FCS 4555 (3) (CD) Nutritional Aspects of Exercise & Sport
- E S 4650 (1) Seminar

Concentration: Choose one concentration
567 B – Pre-Professional (31 sh)
1. Required Courses: (24 sh which includes a 6 sh internship)
   - SOC 3100 (3) Gerontology
   - FCS 2202 (3) Nutrition & Health
   - H P 3700 (3) Health Behavior Change
   - E S 3635 (3) ECG/Exercise Test Interpretation
   - E S 3645 (3) Cardiopulmonary Pathophysiology and Rehabilitation
   - E S 3660 (3) Exer Prescr & Chronic Disease Mgt
   - E S 3900 (6-12) Internship (6 sh minimum required)

   *If internship is done for 6 sh, you must choose 7 sh of electives from the following courses (if a 12 sh internship is done, 1 sh of an elective is needed from the following courses): (Week-end only 12 sh)
   - A T 1600 (2) Intro to Athletic Training
   - H P 3200 (3) (C) Health Risk Appraisal
   - FCS 4552 (1) Medical Terminology/Records
   - E S 3500 (1-4) Independent Study
   - H P 2100 (3) Health Program Plan & Eval I
   - E S 3550 (4) Practicum: Pre-professional
   - E P 2002 (3) Psychological Aspects of Sport
   - E S 4000 (3) Theoretical & Practical Aspects of Strength/Power Conditioning
   - A T 1600 (2) Introduction to Athletic Training
   - H P 3200 (3) (C) Health Risk Appraisal
   - FCS 4552 (1) Medical Terminology/Records
   - E S 3500 (1-4) Independent Study
   - A T 1600 (2) Introduction to Athletic Training

   And choose 17 sh from the following:
   - BIO 3306 (3) (ND) Genetics
   - BIO 3800 (4) (W/ND/C) Molecular Biology
   - BIO 3456 (3) Biology of Aging
   - BIO 4563 (3) Biology of Aging
   - BIO 4566 (4) Immunology

   *Note: A Biology Minor may be completed by taking BIO 3301 in the Allied Core & three of these Biology courses.

III. MINOR NOT REQUIRED

(Although a minor is not required, a minor may be obtained as noted above by the concentrations.)

IV. FREE ELECTIVE

2 sh of free electives outside the major discipline are required (Do not fall below 122)