### INTEGRATIVE PHYSIOLOGY M.S. - EXERCISE SCIENCE

#### Master of Science - Integrative Physiology - Exercise Science Concentration

**Summary**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Course requirements</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Thesis/Internship/Professional Paper/Dissertation</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>38</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Degree Specific Credits:** 38

**Required Cumulative GPA:** 3.0

**Notes**

- The **Research Option** is designed for those students who intend to pursue further graduate studies or careers in scientific or medical research. This option involves a more intensive study of laboratory methods and statistical and research design. A thesis is required.
- The **Applied Option** is intended for those students who plan to pursue professional careers in Exercise or Applied Sciences (corporate/adult fitness, cardiac rehabilitation, strength and conditioning). This option involves additional required course work and an internship. Coursework is modified to meet student needs.

**Courses**

#### Core Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHP 520</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>HHP 525</td>
<td>Advanced Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>HHP 529</td>
<td>Advanced Exercise Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>HHP 530</td>
<td>Advanced Exercise Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>HHP 531</td>
<td>Lab Procedures In Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>HHP 594</td>
<td>Seminar</td>
<td>2</td>
</tr>
<tr>
<td>A graduate level statistics course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Option Requirements**

Complete one of the following Options: 6

- **Research Option:**
  - HHP 699 | Thesis/Dissertation |

- **Applied Option:**
  - Select one of the following:
    - HHP 598 | Internship |
    - & HHP 599 | and Professional Paper |
    - HHP 699 | Thesis/Dissertation |
  - Written Comprehensive Exam

**Elective Course Requirements**

Complete the following courses to meet minimum credit requirements: 12

- AHHS 430 | Health Aspects of Aging |
- AHAT 479 | Topics in Sports Medicine |
- ATEP 569 | Clinical Anatomy Laboratory |
- ATEP 576 | Performance and Technology in Athletic Training |
- ATEP 580 | Pharmacology for Sports Medicine |
- BIOB 468 | Endocrinology |
- BIOH 462 | Principles of Medical Physiology |
- CUTH 445 | Program Planning in Community Health |
- CUTH 485 | Theories of Health Behaviors and Counseling |
- COA 405 | Advanced Concepts in Coaching |
- HHP 523 | Case Studies in Performance Psychology |
- HHP 560 | Advanced Electrocardiogram Assessment |
- HTH 465 | Leading Health and Human Performance Organizations |
- HTH 475E | Legal and Ethical Issues Health and Exercise Professions |
- KIN 410 | Advanced Strength Training & Conditioning |
- KIN 460 | ECG Assessment |
- KIN 483 | Exercise Disease & Aging |
- KIN 484 | Exercise Disease & Aging Lab |
- NUTR 411 | Nutrition For Sports & Exercise |
- PUBH 540 | Social & Behavioral Science in Public Health |

**Total Hours** 38

Minimum Required Grade: C