PRE-PROFESSIONAL EXERCISE SCIENCE B.S.

Bachelor of Science - Health & Human Performance; Exercise Science - PreProfessional Concentration

College of ED & Human Sciences

Degree Specific Credits: 90-93

Required Cumulative GPA: 2.0

Catalog Year: 2017-2018

General Education Requirements

Information regarding these requirements can be found in the General Education Section (http://catalog.umt.edu/academics/general-education-requirements) of the catalog.

Summary

| Major Lower Division Departmental Required Courses | 13 |
| Outside Major Lower Division Required Courses | 56-62 |
| Major Upper Division Departmental Required Courses | 22-25 |
| Outside Major Upper Division Required Courses | 8-16 |
| Elective Courses | 18 |
| Total Hours | 117-134 |

Major Lower Division Departmental Required Courses

Rule: All courses are required.

Note: Students should take ECP 120, ECP 121 within two years of graduation in order to ensure current certification. Students may also substitute outside Emergency Medical Responder Certification for these courses.

- ECP 120 Emergency Medical Responder Lecture 3
- ECP 121 Emergency Medical Responder Lab 1
- KIN 201 Basic Exercise Prescription 3
- KIN 205 Foundations of HHP 3
- NUTR 221N Basic Human Nutrition 3

Total Hours 13

Minimum Required Grade: C-

Outside Major Lower Division Required Courses

Rule: All courses are required.

Notes: Students interested in Medical or Dental School should replace CHMY 121N, CHMY 123 and CHMY 124 with CHMY 141N, 142N,221/222 and 223/224. Students interested in Physical Therapy or other graduate medical professions generally take CHMY 121N, 123 and 124, but you should talk to the HHP advisors prior to starting your chemistry series.

Chose one of the following courses: 3-5
- BIOL 160N Principles of Living Systems
- BIOL 170N Principles Biological Diversity & BIOL 171N and Principles Biological Diversity Lab
- BIOH 212N Human Anat Phys II Lab
- BIOH 213N The Biology of Behavior

Select one of the Chemistry sequences:

General Chemistry: 8-9
- CHMY 121N Introduction to General Chemistry
- CHMY 123 Introduction to Organic and Biochemistry & CHMY 124 and Introduction to Organic and Biochemistry Lab

College Chemistry: 18
- CHMY 141N College Chemistry I
- CHMY 143N College Chemistry II
- CHMY 221 Organic Chemistry I & CHMY 222 and Organic Chemistry I Lab
- CHMY 223 Organic Chemistry II & CHMY 224 and Organic Chemistry II Lab
- COMX 111A Intro to Public Speaking 3

Select one of the following: 4-6
- M 121 College Algebra & M 122 and College Trigonometry
- M 151 Precalculus
- M 162 Applied Calculus 4
- M 171 Calculus I 4

Select one of the following physics sequences:

Algebra- and Trigonometry-based:
- PHSX 205N College Physics I
  & PHSX 206N and College Physics I Laboratory
- PHSX 207N College Physics II
  & PHSX 208N and College Physics II Laboratory

Calculus-based:
- PHSX 215N Fund of Physics w/Calc I
  & PHSX 216N and Physics Laboratory I w/Calc
- PHSX 217N Fund of Physics w/Calc II
  & PHSX 218N and Physics Laboratory II w/Calc
- PSYX 100S Intro to Psychology 3

Select one of the following: 3-4
- STAT 216 Introduction to Statistics (must be pre-approved by advisor)
- PSYX 222 Psychological Statistics (must be pre-approved by advisor)
- SOCI 202 Social Statistics (must be pre-approved by advisor)
- WILD 240 Intro to Biostatistics (must be pre-approved by advisor)
- EDU 421 Statistical Procedures in Educ (must be pre-approved by advisor)
- WRIT 101 College Writing I 3
- WRIT 121 Intro to Technical Writing 3
Pre-Professional Exercise Science B.S.

<table>
<thead>
<tr>
<th>or WRIT 201</th>
<th>College Writing II</th>
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<tbody>
<tr>
<td>Total Hours</td>
<td>56-62</td>
</tr>
<tr>
<td>Minimum Required Grade: C-</td>
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</table>

**Major Upper Division Departmental Required Courses**

**Rule:** All courses are required.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>HTH 475E</td>
<td>Legal and Ethical Issues Health and Exercise Professions</td>
<td>3</td>
</tr>
<tr>
<td>KIN 320</td>
<td>Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>KIN 321</td>
<td>Exercise Physiology Lab</td>
<td>1</td>
</tr>
<tr>
<td>KIN 330</td>
<td>Motor Learning and Control</td>
<td>3</td>
</tr>
<tr>
<td>KIN 447</td>
<td>Analytical &amp; Communicative Techniques</td>
<td>3</td>
</tr>
<tr>
<td>or AHAT 342</td>
<td>Therapeutic Interventions</td>
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</tr>
<tr>
<td>KIN 460</td>
<td>ECG Assessment</td>
<td>2</td>
</tr>
<tr>
<td>KIN 483</td>
<td>Exercise Disease &amp; Aging</td>
<td>3</td>
</tr>
<tr>
<td>KIN 484</td>
<td>Exercise Disease &amp; Aging Lab</td>
<td>1</td>
</tr>
<tr>
<td>KIN 498</td>
<td>Internship</td>
<td>3-6</td>
</tr>
<tr>
<td>or KIN 499</td>
<td>Capstone</td>
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</tbody>
</table>

**Total Hours:** 22-25

**Minimum Required Grade:** C-

**Outside Major Upper Division Required Courses**

**Rule:** All courses are required.

**Notes:** It is required that students take either BIOH 112 OR BIOH 113 OR BIOB 160N prior to taking Anatomy and Physiology.

Students who take the BIOH 201/202 and BIOH 211/212 Anatomy and Physiology series may need to take additional upper division credits, beyond the courses required in this concentration, to meet the university of Montana requirement of 39 upper division credits for graduation.

Choose one of the following Anatomy and Physiology sequences 8-16

**UM courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOH 365</td>
<td>Human AP I for Health Profsns</td>
</tr>
<tr>
<td>BIOH 370</td>
<td>Human AP II for Health Profsns</td>
</tr>
</tbody>
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**Missoula College courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIOH 201N</td>
<td>Human Anat Phys I (equiv 301)</td>
</tr>
<tr>
<td>&amp; BIOH 202N</td>
<td>and Human Anat and Phys I Lab</td>
</tr>
<tr>
<td>BIOH 211N</td>
<td>Human Anat Phys II (equiv 311)</td>
</tr>
<tr>
<td>&amp; BIOH 212N</td>
<td>and Human Anat Phys II Lab</td>
</tr>
</tbody>
</table>

**Total Hours:** 8-16

**Minimum Required Grade:** C-

**Elective Courses**

**Rule:** Electives require adviser pre-approval.

Students must complete 18 elective credit hours in addition to the list of lower and upper division courses above. Students who complete the BIOH 365/370 Anatomy and Physiology series will need an additional 7-10 upper division credit hours and students who complete the BIOH 201/202 and BIOH 211/212 for their Anatomy and Physiology will require an additional 15-18 upper division credits. You should use your elective courses to meet the additional prerequisite course requirements of graduate programs you are interested in attending.

**Minimum Required Grade:** C-