

# EXERCISE SCIENCE - PRE-PROFESSIONAL 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.umd.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

BIOB 160N	Principles of Living Systems	
BIOB 170N & BIOB 171N	Princpls Biological Diversity and Princpls Biological Dvrsty 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 & CHMY 124	Introduction to Organic and Biochemistry and Introduction to Organic and Biochemistry Lab	

College Chemistry: 18

CHMY 141N	College Chemistry I	
CHMY 143N	College Chemistry II	
CHMY 221 & CHMY 222	Organic Chemistry I and Organic Chemistry I Lab	
CHMY 223 & CHMY 224	Organic Chemistry II and Organic Chemistry II Lab	

COMX 111A Intro to Public Speaking 3

Select one of the following: 4-6

M 121 & M 122	College Algebra 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 & PHSX 206N	College Physics I and College Physics I Laboratory	
PHSX 207N & PHSX 208N	College Physics II and College Physics II Laboratory	

Calculus-based:

PHSX 215N & PHSX 216N	Fund of Physics w/Calc I and Physics Laboratory I w/Calc	
PHSX 217N & PHSX 218N	Fund of Physics w/Calc II 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

or WRIT 201	College Writing II	
Total Hours		56-62

Minimum Required Grade: C-

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-

## Major Upper Division Departmental Required Courses

**Rule:** All courses are required.

HTH 475E	Legal and Ethical Issues Health and Exercise Professions	3
KIN 320	Exercise Physiology	3
KIN 321	Exercise Physiology Lab	1
KIN 330	Motor Learning and Control	3
KIN 447	Analytical & Communicative Techniques	3
or AHAT 342	Therapeutic Interventions	
KIN 460	ECG Assessment	2
KIN 483	Exercise Disease & Aging	3
KIN 484	Exercise Disease & Aging Lab	1
KIN 498	Internship	3-6
or KIN 499	Capstone	
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	
BIOH 365	Human AP I for Health Profsns
BIOH 370	Human AP II for Health Profsns
Missoula College courses	
BIOH 201N & BIOH 202N	Human Anat Phys I (equiv 301) and Human Anat and Phys I Lab
BIOH 211N & BIOH 212N	Human Anat Phys II (equiv 311) and Human Anat Phys II Lab

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