

# SPORTS MEDICINE, INTEGRATIVE PHYSIOLOGY B.S.

## Bachelor of Science - Integrative Physiology; Sports Medicine Concentration

### 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

Code	Title	Hours
Lower-Division Departmental Required Courses		12
Outside Major Lower-Division Required Courses		28-35
Upper-Division Departmental Required Courses		39
Outside Major Upper-Division Required Courses		8
<b>Total Hours</b>		<b>87-94</b>

Degree Specific Credits: 87-94

Required Cumulative GPA: 2.0

#### Lower-Division Departmental Required Courses

Code	Title	Hours
<b>Complete all of the following courses:</b>		
AHAT 210	Prevention and Care Athletic Injuries	2
AHAT 213	Prevention and Care Athletic Injuries Lab	1
KIN 201	Basic Exercise Prescription	3
KIN 205	Foundations of HHP	3
NUTR 221N	Basic Human Nutrition	3
<b>Total Hours</b>		<b>12</b>

Minimum Required Grade: C-

#### Outside Major Lower-Division Required Courses

**Notes:** Students interested in Medical School should pay special attention to those additional requirements. Please meet with the Medical School Adviser in the School of Integrative Physiology and Athletic Training if you intend to also work towards Pre-Medical studies.

Code	Title	Hours
<b>Complete one of the following courses:</b>		
		<b>3</b>
BIOH 112	Human Form and Function I	
BIOH 113	Human Form and Function II	
BIOB 160N	Principles of Living Systems	
<b>General Chemistry - Complete one of the following:</b>		<b>3-5</b>
CHMY 121N	Introduction to General Chemistry	

CHMY 141N College Chemistry I  
& CHMY 142N and College Chemistry I Lab

CHMY 143N College Chemistry II  
& CHMY 144N and College Chemistry II Lab

**Organic and Biochemistry - Complete one of the following series:** **4-6**

CHMY 123 Introduction to Organic and Biochemistry  
& CHMY 124 and Introduction to Organic and Biochemistry Lab

CHMY 221 Organic Chemistry I  
& CHMY 222 and Organic Chemistry I Lab

CHMY 223 Organic Chemistry II  
& CHMY 224 and Organic Chemistry II Lab

**Mathematics - Complete one of the following:** **4-6**

M 121 College Algebra  
& M 122 and College Trigonometry

M 151 Precalculus

M 162 Applied Calculus

M 171 Calculus I

**Complete one of the following physics sequences:** **5**

**Algebra- and Trigonometry-based:**

PHSX 205N College Physics I  
& PHSX 206N and College Physics I Laboratory

**Calculus-based:**

PHSX 215N Fundamentals of Physics with Calculus I  
& PHSX 216N and Physics Laboratory I with Calculus

**Statistics - Complete one of the following courses:** **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)

EDU 421 Statistical Procedures in Education (must be pre-approved by advisor)

**Complete all of the following courses:**

COMX 111A Introduction to Public Speaking 3

PSYX 100S Intro to Psychology 3

**Total Hours** **28-35**

Minimum Required Grade: C-

#### Upper-Division Departmental Required Courses

Code	Title	Hours
<b>Complete all of the following courses:</b>		
AHAT 324	Assessment of the Extremities	2
AHAT 325	Assessment of the Extremities Lab	1
AHAT 342	Therapeutic Interventions	2
AHAT 343	Therapeutic Interventions Lab	1
HTH 475E	Legal and Ethical Issues Health and Exercise Professions	3
KIN 310	Strength Training & Cond	2
KIN 320	Exercise Physiology	3
KIN 321	Exercise Physiology Lab	1

KIN 322	Kinesiology	3
KIN 323	Anatomical Kinesiology Lab	1
KIN 330	Motor Learning and Control	3
KIN 410	Advanced Strength Training & Conditioning	3
KIN 425	Biomechanics	3
KIN 440	Sport Psychology	3
KIN 499	Capstone	3
KIN 460	ECG Assessment	2
NUTR 411	Nutrition For Sports & Exercise	3
<b>Total Hours</b>		<b>39</b>

Minimum Required Grade: C-

### Outside Major Upper-Division Required Courses

**Notes:** Students are required to take either BIOH 112 OR BIOH 113 OR BIOB 160N prior to taking Anatomy and Physiology. Students who take the BIOH 201N and BIOH 211N 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.

Code	Title	Hours
<b>Complete one of the following Anatomy and Physiology sequences:</b>		<b>8</b>
<b>University of Montana - Mountain Campus</b>		
BIOH 365 & BIOH 366	Human Anatomy and Physiology for Health Professions I and Human Anatomy and Physiology for Health Professions I Laboratory	
BIOH 370 & BIOH 371	Human Anatomy and Physiology for Health Professions II and Human Anatomy and Physiology for Health Professions II Laboratory	
<b>Missoula College</b>		
BIOH 201N & BIOH 211N	Human Anatomy & Physiology I and Human Anatomy and Physiology II	
<b>Total Hours</b>		<b>8</b>

Minimum Required Grade: C-