

Bachelor of Science (B.S.)
Exercise Science
 Clinical Exercise Science Emphasis

Year One			
BIO 120 – General Biology I¹ (Gen Ed) Prerequisite: None	4	BMS 208 – Human Anatomy² Prerequisite: BIO 120 or BMS 202	3
CHM 109 – Introductory Chemistry¹ (Gen Ed) Prerequisite: None	4	CHM 231 – Introductory Organic Chemistry² Prerequisite: CHM 109 or CHM 116	4
MTH 110 – Algebra Prerequisite: MTH 097 or GVSU placement test	4	WRT 150 – Strategies in Writing (Gen Ed) Prerequisite: None	4
MOV 101 – Foundations of Human Movement Science Prerequisite: None	3	PSY 101 – Introductory Psychology (Gen Ed) Prerequisite: None	3
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>14</i>
Year Two			
BMS 290 – Human Physiology³ Prerequisite: BMS 208 and two semesters of CHM	3	MOV 304 – Introduction to Exercise Physiology⁴ Prerequisite: BMS 202 or BMS 290	3
BMS 291 – Human Physiology Lab³ Prerequisite: BMS 208 and two semesters of CHM	1	PHY 200 – Physics for the Life Sciences Prerequisite: MTH 110 or MTH 122 or MTH 201	4
CHM 232 – Biological Chemistry Prerequisite: CHM 231 or CHM 242 or CHM 247	3	BMS 105 – Basic Nutrition Prerequisite: None	3
STA 215 – Introductory Applied Statistics (Gen Ed) Prerequisite: MTH 110 or equivalent	3	MOV 217 – Modern Principles of Athletic Training Prerequisite: None; MOV 218 is a co-requisite	2
Gen Ed Prerequisite: None	3	MOV 218 – Athletic Training Lab Prerequisite: None; MOV 217 is a co-requisite	1
		MOV 309 – Measurement and Evaluation Prerequisite: None	2
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>15</i>
Year Three			
MOV 320 Exercise Testing and Prescription⁵ Prerequisite: MOV 304; MOV 321 is a co-requisite	3	MOV 420 – Laboratory Practicum in Exercise Science⁶ Prerequisite: MOV 320 and MOV 321	2
MOV 321 Exercise Testing Lab⁵ Prerequisite: MOV 304; MOV 320 is a co-requisite	1	BMS 415 – Nutrition and Physical Performance (ELECTIVE) Prerequisite: BMS 306	3
BMS 306 – Advanced Human Nutrition (ELECTIVE) Prerequisites: BMS 290 or MOV 304 and CHM 232	3	PSY 310 – Behavior Modification Prerequisite: PSY 101 or HNR 234	3
MOV 300 – Kinesiology Prerequisite: BMS 202 or BMS 208 or BMS 250	3	MOV 102 – First Aid, CPR and AED Prerequisite: None	2
MOV 365 – Clinical Exercise Physiology ⁵ Prerequisite: MOV 304	3	Gen Ed Prerequisite: None	3
Gen Ed Prerequisite: None	3	Issues #1 Prerequisite: Junior Standing	3
<i>Total</i>	<i>16</i>	<i>Total</i>	<i>16</i>
Year Four			
MOV 475 – Fieldwork in Exercise Science⁷ Prerequisite: STA 215 and MOV 420	2	MOV 490 – Internship in Exercise Science⁸ Prerequisite: Completion of MOV 475 and permit	6-12
MOV 470 – Exercise for Special Populations ⁶ Prerequisite: MOV 320 and MOV 321	3	Gen Ed Prerequisite: None	3
MOV 495 – Professionalism in Exercise Science ⁷ (SWS) Prerequisite: MOV 420 and WRT 150	3	Gen Ed Prerequisite: None	3
Gen Ed Prerequisite: None	3		
Issues #2 Prerequisite: Junior Standing	3		
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>12</i>

The block tuition rate is for 12-15 credits. You will pay additional tuition for more than 15 credits.

Graduation Requirements

- Earn 120 credit hours at minimum of 2.0 GPA – 58 credit hours at 4-yr institution and last 30 credit hours at GVSU;
- Complete all components of the General Education program;
- Complete two supplemental writing skills (SWS) courses after WRT 150, each with minimum C grade.
- For more information, visit the CLAS Academic Advising Center – MAK C-1-140 (<http://www.gvsu.edu/clasadvising>)

For additional degree-specific information, please consult your exercise science faculty advisor or go online at:
<http://www.gvsu.edu/exercisescience>

Possible Exercise Science Career Pathways

- Biomechanist
- Cardiac Rehabilitation Specialist
- Exercise Physiologist
- Physical Therapist
- Physician Assistant
- Pulmonary Rehabilitation Specialist
- College Professor

Suggested M.S. Graduate Programs

- Exercise Science/Exercise and Sports Medicine
- Exercise Physiology/Clinical Exercise Physiology
- Kinesiology
- Biomechanics
- Orthotics & Prosthetics
- Sports and Exercise Psychology
- Dietetics
- Public Health

Possible Professional/Graduate Programs at GVSU (pre-req details below):

- Clinical Doctorate in Physical Therapy
- Masters in Physician Assistant Studies
- Masters in Clinical Dietetics

Pre-Requisites for Clinical Doctorate of Physical Therapy (at GVSU)

Course	General Education	Major	Elective
BIO 120	✓		
BMS 208, BMS 290 & BMS 291 & BMS 309 or BMS 250 & BMS 251		✓ or ✓	✓ (BMS 309)
2 CHM courses w/ Lab		✓ (CHM 109 & 231/232)	
MOV 304		✓	
MTH 122 or MTH 123 or MTH 201 [§]			✓
PHY 220 & PHY 221*		*	✓
PSY 101	✓	✓	
PSY 364 [#]		#	✓
SOC 101 or SOC 105 or ANT 204	✓		✓
STA 215	✓	✓	

[§]MTH 122 and MTH 123 are pre-reqs for PHY 220 and PHY 221

*PHY 220 and PHY 221 sub for PHY 200 within the major program.

[#]Recommended as a possible elective for either BMS 306 or BMS 415.

Pre-Requisites for Masters in Physician Assistant Studies (at GVSU)

Course	General Education	Major	Elective
BIO 120	✓	✓	
CHM 109 or CHM 115 & 116		✓	
CHM 231 or CHM 241 & 242		✓	
CHM 232 or CHM 461		✓	
BIO 355 [#] or BIO 375/376 [#]		# #	✓ ✓
BMS 208 or BMS 250 & 251		✓	
BMS 290 & 291 or BMS 250 & 251		✓	
PHY 200 or PHY 220 & PHY 221	✓	✓	✓
PSY 101 or PSY 364 [#]	✓	✓ #	✓
BMS 212 & BMS 213			✓
STA 215	✓	✓	

[#]Recommended as possible electives for BMS 306 and BMS 415.

Pre-Requisites for Masters in Clinical Dietetics (at GVSU)

Course	General Education	Major	Elective
BIO 120	✓	✓	
CHM 109 or CHM 115 & 116		✓	
CHM 231 or CHM 241 & 242		✓	
CHM 232 or CHM 461		✓	
BMS 208, BMS 290 & 291 or BMS 250 & BMS 251		✓ ✓	
PSY 310		✓	
BMS 105		✓	
BMS 212 & BMS 213			✓
BMS 305# or BMS 306		✓	✓
BMS 310#		#	✓
BMS 311#		#	✓
BMS 404#		#	✓
BMS 407#		#	✓
COM 209			✓
HTM 175			✓
HTM 250			✓
SOC 288			✓
STA 215	✓	✓	

#Recommended as possible electives for BMS 306 and BMS 415.