EXERCISE SCIENCE, WELLNESS & SPORTS, B.S.

Learning Outcomes

Upon successful completion of the program of studies for Exercise Science, Wellness & Sports, the student will receive a B.S. in Exercise Science, Wellness & Sports and will have given evidence of the following outcomes and goals:

- Students will recall and apply the major concepts of exercise science, especially in the areas of functional anatomy, physiological responses to exercise, and the principles of nutrition, through standardized testing and in-class exams.
- Within lab demonstrations, class assignments and case studies, students will apply skills related to conducting exercise tests and prescribing exercise programs, including, but not limited to, stratifying the population according to risk, choosing an appropriate test based on health status, conducting fitness tests, and prescribing exercise programs for both healthy and diseased populations.
- Students will communicate effectively in both written and oral formats, alone and in teams, and demonstrate academic research skills as applied to exercise science through assigned writing and research-based assignments and in-class presentations.
- Students will reflect upon and apply professional standards and ethics in exercise science professions through personal integration, case studies, and internship opportunities.

Requirements

To earn this degree, students must successfully complete at least 120 credits, including General Education (http://catalog.georgian.edu/undergraduate/academic-programs/bridge-general-education-program-requirements/) requirements and the major requirements below.

Major Sequence

Students choose one of two concentrations: Exercise Science or Health and Physical Education.

Exercise Science Concentration

Students must complete 36 exercise science credits, plus courses in related areas, including:

Code	Title	Credits
Required Courses		
ES100	Exploration of Exercise Science	1.0
ES111	Found Ex Science & Wellness	3.0
ES220	Introduction to Nutrition	3.0
ES251	Biomechanics ¹	3.0
ES252	Kinesiology & Applied Anatomy	3.0
ES330	Exercise Physiology	4.0
ES350	Exercise Testing & Prescription	4.0
ES390	Internship I	3.0
ES391	Internship II ²	3.0
ES470	Research Methods in Exercise & Sport	3.0
Exercise Science electives		6.0

Related Courses

- ES251 Biomechanics can be substituted with PH111 Physics in Everyday Life I and PH112 Physics in Everyday Life II, or PH115 College Physics I and PH116 College Physics II, or PH121 University Physics I and PH122 University Physics II.
- ES391 Internship II can be substituted with ES392 Coaching Internship or ES471 Research Project in Exercise Science.
- ³ Evidence of algebra proficiency may replace MA109 College Algebra.

Transfer students are required to take a minimum of 14 ES credits at GCU, and a minimum of 23 credits including the interdisciplinary courses required for the major. Students may choose to complete the requirements for one or more tracks.

Health & Physical Education Concentration

Students must complete 48 credits in exercise science and related areas (or, 60 credits for students who do not complete the Specific Subject for Grades K-12 and Teacher of Students with Disabilities Endorsement program), including:

Code	Title	Credits	
Required Health Sequence Courses			
BI111	Life: Human Biology	4.0	
ES111	Found Ex Science & Wellness	3.0	
ES160	First Aid & CPR	1.0	
ES213	Human A&P for Health & Phys Ed	3.0	
ES220	Introduction to Nutrition	3.0	
PS221	Child & Adolescent Development	3.0	
ES252	Kinesiology & Applied Anatomy	3.0	
ES/HPE280	Substance Use Abuse	1.0	
ES/HPE281	Sexuality and Health	1.0	
ES330	Exercise Physiology	4.0	
ES340	Health & Weight Management	3.0	
ES350	Exercise Testing & Prescription	4.0	
Required Physical Education Sequence Courses			
ES/HPE260	Motor Development Learning & Teaching	3.0	
HPE310	Adaptive Physical Education	3.0	
ES/HPE355	Methods of Secondary Health & Phys Ed.	3.0	
PE (1 credit) courses that include at least one single, dual, and team			
activity			
Total Credits		48.0	
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Code	Title	Credits	

Required Additional Courses if Student does not complete the Specific Subject for Grades K-12 and Teacher of Students with Disabilities Endorsement program

Total Credits		12.0
Exercise Science electives		6.0
ES470	Research Methods in Exercise & Sport	3.0
ES390	Internship I	3.0

Transfer students are required to take a minimum of 14 ES credits at GCU and a minimum of 23 credits, including the interdisciplinary courses required for the major. Students seeking teacher certification also complete the teacher certification courses as shown in the School of Education section of the catalog.

Degree Map(s)

This degree map is for only the Exercise Science concentration. Please consult your academic advisor for other degree maps.

Course First Year Fall Semester	Title	Credits
GEN101	Pathway to the Bridge ¹	2.0
EN111 or EN221	Academic Writing and Research I or Honors Argument: Rhetoric & Research	3.0
MA109	College Algebra ^{1,2}	3.0
BI111 or BI121	Life: Human Biology ^{1,2} or Cellular Organiz., Energetics & Function	4.0
ES111	Found Ex Science & Wellness ²	3.0
	Credits	15.0
Spring Semester		
GEN199	WI:Discovering Self in the Universe 1	3.0
ES100	Exploration of Exercise Science ²	1.0
Mod. Lang. or V&P Ar		3.0
BI213	Human Anatomy & Physiology I ²	4.0
ES220	Introduction to Nutrition ²	3.0
	Credits	14.0
Second Year		
Fall Semester		
Literature ¹	,	3.0
Social Science 1 or History 1		3.0
ES Elective ²	2	3.0
BI214	Human Anatomy & Physiology II ²	4.0
CH113	General Chemistry I ²	4.0
or CH151	or Chemistry for the Health Sciences	
	Credits	17.0
Spring Semester		
PL245	Philosophical Inquiry (or Religious Studies)	3.0
Social Science 1 or History ¹		3.0
Elective		3.0
ES252	Kinesiology & Applied Anatomy	3.0
MA103 or BI203	Introduction to Statistical Thinking ^{1,2} or Experimental Design & Statistics	3.0
_	Credits	15.0

Fall Semester		
PL245	Philosophical Inquiry (or Religious Studies)	3.0
PL245	1	3.0
Mod. Lang. or V&P A	Arts ¹	3.0
ES Elective ²		3.0
ES251	Biomechanics	3.0
ES330	Exercise Physiology ²	4.0
	Credits	16.0
Spring Semester		
Select one of the fol	lowing: 1	3.0
Ethics		
WS311	Shaping Lives: Women & Gender	
GEN400	WI:Visioning a Future	
Social Science 2 1		3.0
ES350	Exercise Testing & Prescription ²	4.0
ES160	First Aid & CPR ²	1.0
Elective		3.0
	Credits	14.0
Fourth Year		
Fall Semester		
Select one of the fol	lowing: 1	3.0
Ethics		
WS311	Shaping Lives: Women & Gender	
GEN400	WI:Visioning a Future	
ES390	Internship I ²	3.0
ES470	Research Methods in Exercise & Sport ²	3.0
Elective		3.0
Elective		3.0
	Credits	15.0
Spring Semester		
Select one of the fol	lowing: 1	3.0
Ethics		
WS311	Shaping Lives: Women & Gender	
GEN400	WI:Visioning a Future	
ES391	Internship II ²	3.0
Elective		3.0
Elective		3.0
Elective		3.0
	Credits	15.0

¹ General Education

Third Year

This degree map is for only the Health and Physical Education concentration with the option for Teacher of Health and Physical Education (K–12) with Teacher of Students with Disabilities Endorsement. Please consult your academic advisor for other degree maps.

121.0

Total Credits

² Major

Course First Year	Title	Credits
Fall Semester		
GEN101	Pathway to the Bridge ¹	2.0
EN111 or EN221	Academic Writing and Research I ¹ or Honors Argument: Rhetoric & Research	3.0
Mod. Lang. ¹		3.0
Quant. Analysis 1		3.0-4.0
V&P Arts ¹		3.0
ES111	Found Ex Science & Wellness ²	3.0
	Credits 1	7.0-18.0
Spring Semester		
GEN199	WI:Discovering Self in the Universe ¹	3.0
Hsitory or Literature ¹	. .	3.0
Physical Education ²		1.0
Physical Education ²		1.0
PS221	Child & Adolescent Development 1,2	3.0
BI111	Life: Human Biology ^{1,2}	4.0
ES220	Introduction to Nutrition ²	3.0
20220	Credits	18.0
Second Year	orcato	10.0
Fall Semester		
Social Science 2 (not	Psychology) 1,3	3.0
Religious Studies ¹	1 Sychology)	3.0
PL245	Philosophical Inquiry ¹	3.0
ES213	Human A&P for Health & Phys Ed ²	3.0
HPE/ES260	Motor Development, Learning & Teaching	
111 L/ L3200	Credits	15.0
Spring Semester	orealis	13.0
HPE280	Substance Use Abuse ²	1.0
HPE281	Sexuality and Health ²	1.0
ES252	Kinesiology & Applied Anatomy ²	3.0
HPE310	Adaptive Physical Education ²	3.0
History or Literature ¹	Adaptive Physical Education	3.0
ED3110	Ethics & Foundations of Incl & SpEd ³	3.0
	Psychology of the Exceptional Child ²	
PS245 ED2999	Field Experience in Special Education ³	3.0
ED2999	Credits	18.0
Third Year	Credits	18.0
Fall Semester		
	Exercise Physiology ²	4.0
ES330		4.0
HPE355 Physical Education ²	Methods of Secondary Health & Phys.Ed. 2	
Physical Education		1.0
Physical Education ²	Instr Door 9 Tooks Inter-Incl Cooffd 3	1.0
ED3120	Instr Dsgn & Techn Intgr Incl SecEd ³	3.0
ED3210	Instr in Literacy in Sec Incl & SpEd ³	3.0
ED3303	Evi-Based Prac for Inst Stdnts w/ Autism ³	
0	Credits	18.0
Spring Semester	Observing Lives W. A. C. J. 1	2.5
WS311	Shaping Lives: Women & Gender ¹	3.0
Physical Education ²		1.0

0		
Physical Education ²		1.0
ES350	Exercise Testing & Prescription ²	4.0
ED3221	Sec Subj Instr Incl & SpEd HPE ³	3.0
ED3237	Instr Techn in Incl & SpEd Health & PE	3.0
ED3302	Accom Mod & Asst Techn for SWD 3	3.0
	Credits	18.0
Fourth Year		
Fall Semester		
GEN400	WI:Visioning a Future ¹	3.0
Ethics ¹		3.0
ES340	Health & Weight Management ²	3.0
ED3201	Educational Assessment ³	3.0
ED4215	Coll Plan w/ Family School & Comm Se	cEd 3.0
	Credits	15.0
Spring Semester		
ED4306	Secondary Education Clinical Practice	9.0
ED4307	Reflective Practice in SecEd & SpED ³	3.0
	Credits	12.0
	Total Credits	131.0-132.0

General Education
 Major
 Teacher of Health and Physical Education (K-12) with Teacher of Students with Disabilities Endorsement