

Date Submitted: 10/14/19 3:39 pm

Viewing: **EXSCBS : Exercise Science, Bachelor of Science**

Last approved: 05/24/19 11:18 am

Last edit: 10/24/19 2:49 pm

Changes proposed by: pcallej

Catalog Pages Using
this Program

[Exercise Science B.S.](#)

[Exercise Science \(EXSC\)](#)

Submitter: 575-6731 User ID: crsleaf1 Phone:

Program Status Active

Academic Level Undergraduate

Type of proposal Major/Field of Study

Select a reason for this modification

Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

Are you adding a concentration?

No

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog Year Fall 2020

College/School Code

College of Education and Health Professions (EDUC)

In Workflow

1. EDUC Dean Initial
2. Director of Program Assessment and Review
3. Registrar Initial
4. Institutional Research
5. HHPR Chair
6. EDUC Curriculum Committee
7. EDUC Faculty
8. EDUC Dean
9. Global Campus
10. Provost Review
11. University Course and Program Committee
12. Faculty Senate
13. Provost Final
14. Provost's Office-- Notification of Approval
15. Registrar Final
16. Catalog Editor Final

Approval Path

1. 10/18/19 3:31 pm
Ketevan Mamiseishvili (kmamisei): Approved for EDUC Dean Initial
2. 10/24/19 2:49 pm
Alice Griffin (agriffin): Approved for Director of

Department Code

Department of Health, Human Performance and Recreation (HHPR)

Program Code

EXSCBS

Degree

Bachelor of Science

CIP Code

Program

Assessment and
Review

3. 10/26/19 5:05 pm

Lisa Kulczak

(lkulcza): Approved
for Registrar Initial

4. 10/26/19 7:18 pm

Gary Gunderman

(ggunderm):

Approved for
Institutional
Research

5. 10/29/19 10:34 am

Matthew Ganio

(msganio):

Approved for HHPR
Chair

6. 10/30/19 2:18 pm

Ketevan

Mamiseishvili

(kmamisei):

Approved for EDUC
Curriculum
Committee

7. 10/30/19 2:52 pm

Ketevan

Mamiseishvili

(kmamisei):

Approved for EDUC
Faculty

8. 10/30/19 2:53 pm

Ketevan

Mamiseishvili

(kmamisei):

Approved for EDUC
Dean

9. 10/30/19 3:39 pm

Suzanne Kenner

- (skenner): Approved
for Global Campus
10. 11/06/19 8:06 am
Terry Martin
(tmartin): Approved
for Provost Review
11. 11/22/19 4:30 pm
Alice Griffin
(agriffin): Approved
for University
Course and Program
Committee

History

1. Aug 15, 2014 by
Leepfrog
Administrator
(clhelp)
2. Apr 21, 2015 by
Susan Mayes
(smayes)
3. Jun 10, 2015 by
Charlie Alison
(calison)
4. May 27, 2016 by
Charlie Alison
(calison)
5. May 25, 2017 by
Karen Turner
(kvestal)
6. Mar 27, 2018 by
Steve Dittmore
(dittmore)
7. Apr 2, 2018 by Gina
Daugherty
(gdaugher)
8. May 21, 2019 by
Paul Calleja (pcallej)
9. May 24, 2019 by
Charlie Alison

(calison)
 10. May 24, 2019 by
 Charlie Alison
 (calison)

31.0505 - Kinesiology and Exercise Science.

Program Title

Exercise Science, Bachelor of Science

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total 120
 hours needed to
 complete the
 program?

Program Requirements and Description

Requirements

Requirements for the B.S. in Exercise Science

Students must have 40 hours of 3000/4000-level classes to graduate.

University Core (State Minimum Core)

35

MATH – A prerequisite course, [MATH 1203](#), may be required.

[MATH 1213](#) Plane Trigonometry (ACTS Equivalency = MATH 1203)

or [MATH 1284C](#) Precalculus Mathematics (ACTS Equivalency = MATH 1305)

or [MATH 2554](#) Calculus I (ACTS Equivalency = MATH 2405)

[BIOL 1543](#) Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture)

& [BIOL 1541L](#) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)

or [BIOL 1584](#) Biology for Majors (ACTS Equivalency = BIOL 1014 Lecture)

[CHEM 1103](#) University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)

& [CHEM 1101L](#) and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)

or [CHEM 1203](#) Chemistry for Majors I

& [CHEM 1201L](#) and Chemistry for Majors I Laboratory

<u>PSYC 2003</u>	General Psychology (ACTS Equivalency = PSYC 1103)	
Additional Required Sciences (20 hours)		
<u>BIOL 2443</u>	Human Anatomy (ACTS Equivalency = BIOL 2404 Lecture)	4
& <u>BIOL 2441L</u>	and Human Anatomy Laboratory (ACTS Equivalency = BIOL 2404 Lab)	
<u>BIOL 2213</u>	Human Physiology (ACTS Equivalency = BIOL 2414 Lecture)	4
& <u>BIOL 2211L</u>	and Human Physiology Laboratory (ACTS Equivalency = BIOL 2414 Lab)	
<u>CHEM 1123</u>	University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)	4
& <u>CHEM 1121L</u>	and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)	
or <u>CHEM 1223</u>	Chemistry for Majors II	
& <u>CHEM 1221L</u>	and Chemistry for Majors II Laboratory	
<u>CHEM 2613</u>	Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)	4-5
& <u>CHEM 2611L</u>	and Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)	
or <u>CHEM 3603</u>	Organic Chemistry I	
& <u>CHEM 3601L</u>	and Organic Chemistry I Laboratory	
or <u>CHEM 3703</u>	Organic Chemistry I Lecture for Chemistry Majors	
& <u>CHEM 3702L</u>	and Organic Chemistry I Lab for Chemistry Majors	
<u>PHYS 2013</u>	College Physics I (ACTS Equivalency = PHYS 2014 Lecture)	4
& <u>PHYS 2011L</u>	and College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)	
Additional Non-EXSC Requirements (15 hours)		
<u>NUTR 1213</u>	Fundamentals of Nutrition	3
<u>COMM 1313</u>	Public Speaking (ACTS Equivalency = SPCH 1003)	3
<u>STAT 2303</u>	Principles of Statistics (ACTS Equivalency = MATH 2103)	3
or <u>PSYC 2013</u>	Introduction to Statistics for Psychologists	
or <u>SOCI 3303</u>	Social Data and Analysis	
or <u>STAT 2023</u>	Biostatistics	
<u>PBHL 2663</u>	Terminology for the Health Professions	3
<u>PSYC 3023</u>	Abnormal Psychology	3
Exercise Science Core Required (27 hours)		
<u>EXSC 2733</u>	Introduction to Exercise Science	3
<u>EXSC 3153</u>	Exercise Physiology 2	3
<u>EXSC 3353</u>	Mechanics of Human Movement 2	3
<u>EXSC 3533</u>	Laboratory Techniques 2	3
<u>EXSC 4323</u>	Exercise Prescription	3
<u>EXSC 4773</u>	Performance and Drugs	3
<u>EXSC 4783</u>	Sport and Exercise Psychology	3
<u>KINS 3901H</u>	Kinesiology Honors Thesis Tutorial	
<u>PBHL 4603</u>	Health Behavior: Theories and Application	
<u>PBHL 4613</u>	Principles of Epidemiology	
<u>PHED 3223</u>	Motor Development	

MATH 2053	Finite Mathematics	
or MATH 2053C	Finite Mathematics	
ENGL 3053	Technical and Report Writing (ACTS Equivalency = ENGL 2023)	
BIOL 2013	General Microbiology (ACTS Equivalency = BIOL 2004 Lecture)	
& BIOL 2011L	and General Microbiology Laboratory (ACTS Equivalency = BIOL 2004 Lab)	
BIOL 2323	General Genetics	
BIOL 2321L	General Genetics Laboratory	
BIOL 2533	Cell Biology	
BIOL 2531L	Cell Biology Laboratory	
BIOL 4793	Introduction to Neurobiology	
CHEM 3613	Organic Chemistry II	
& CHEM 3611L	and Organic Chemistry II Laboratory	
CHEM 3813	Elements of Biochemistry	
PSYC 3093	Developmental Psychology (ACTS Equivalency = PSYC 2103)	
PHYS 2033	College Physics II (ACTS Equivalency = PHYS 2024 Lecture)	
& PHYS 2031L	and College Physics II Laboratory (ACTS Equivalency = PHYS 2024 Lab)	
or PHYS 2074	University Physics II (ACTS Equivalency = PHYS 2044 Lecture)	
<u>EXSC 4833</u>	Exercise Applications for Special Populations	3
or <u>EXSC 4833H</u>	Honors Exercise Applications for Special Populations	
<u>EXSC 4903</u>	Internship in Exercise Science 1	3
or <u>KINS 405V</u>	Independent Study	
or <u>KINS 498VH</u>	Kinesiology Honors Thesis/Project	
Related Electives chosen from NUTR, PBHL, BIOL, ANSC, FDSC, POSC prefixes or the following:		18
EXSC 3013	Functional Anatomy for Exercise Science	
EXSC 3393	Prevention and Care of Athletic Injuries	
EXSC 3423	Principles and Theories of Strength and Conditioning	
EXSC 3723	Research Methods in Exercise Science	
or EXSC 3723H	Honors Research Methods in Exercise Science	
EXSC 4013	Clinical Exercise Physiology	
EXSC 4353	Advanced Mechanics of Human Movement	
or EXSC 4353H	Honors Advanced Mechanics of Human Movement	
EXSC 4643	Psychology of Sports Injury and Rehabilitation	
Related Electives chosen from EXSC, PBHL, CHLP, SOCI, SPED, FDSC, NUTR, CHEM, STAT, CDIS, BIOL, ANTH, HDFs, ANSC, CNED, PHED, PSYC, SCWK, HRWD, HESC, POSC, PHYS, RESM, MATH		15
General Electives		7-8
Total Hours		120
1 <u>KINS 498VH</u> option available only if completing Honors Program		
2 Course requires C or better for degree award		

Exercise Science B.S.

Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan in Kinesiology should see the [Eight-Semester Degree Policy](#) for university requirements of the program. Students must have 40 hours of 3000/4000-level classes to graduate. Find out more about the [University Core](#) requirements.

First Year	Units
	FallSpring
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) & CHEM 1101L University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab) or CHEM 1203 and CHEM 1201L	4
Choose from:	3
General Elective (recommend MATH 1203 if appropriate)	
MATH 1213 Plane Trigonometry (ACTS Equivalency = MATH 1203) or MATH 1284C Precalculus Mathematics (ACTS Equivalency = MATH 1305) or MATH 2554 Calculus I (ACTS Equivalency = MATH 2405)	
Fine Arts or Humanities-University Core	3
BIOL 1543 Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) & BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) or BIOL 1584 Biology for Majors (ACTS Equivalency = BIOL 1014 Lecture)	4
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)	3
Fine Arts or Humanities-University Core	3
CHEM 1123 University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) & CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab) or CHEM 1223 and CHEM 1221L	4
Choose from:	3
General Elective (if math requirement met excluding STAT 2303)	
MATH 1213 Plane Trigonometry (ACTS Equivalency = MATH 1203) or MATH 1284C Precalculus Mathematics (ACTS Equivalency = MATH 1305) or MATH 2554 Calculus I (ACTS Equivalency = MATH 2405)	
COMM 1313 Public Speaking (ACTS Equivalency = SPCH 1003)	3
Year Total:	17 16

Second Year	Units
	FallSpring
EXSC 2733 Introduction to Exercise Science	3
NUTR 1213 Fundamentals of Nutrition	3
HIST 2003 History of the American People to 1877 (ACTS Equivalency = HIST 2113) or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)	3

or PLSC 2003 American National Government (ACTS Equivalency = PLSC 2003)	
PBHL 2663 Terminology for the Health Professions	3
BIOL 2443 Human Anatomy (ACTS Equivalency = BIOL 2404 Lecture)	4
& BIOL 2441L Human Anatomy Laboratory (ACTS Equivalency = BIOL 2404 Lab)	
PSYC 2003 General Psychology (ACTS Equivalency = PSYC 1103)	3
STAT 2303 Principles of Statistics (ACTS Equivalency = MATH 2103)	3
or PSYC 2013 Introduction to Statistics for Psychologists	
or SOCI 3303 Social Data and Analysis	
or STAT 2023 Biostatistics	
BIOL 2213 Human Physiology (ACTS Equivalency = BIOL 2414 Lecture)	4
& BIOL 2211L Human Physiology Laboratory (ACTS Equivalency = BIOL 2414 Lab)	
General Elective	2
Social Science-University Core	3
Year Total:	16 15

Third Year	Units
	FallSpring
PHYS 2013 College Physics I (ACTS Equivalency = PHYS 2014 Lecture)	4
& PHYS 2011L College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)	
EXSC 3153 Exercise Physiology	3
EXSC 3353 Mechanics of Human Movement	3
General Elective	3
Related Elective	3
EXSC 3533 Laboratory Techniques	3
CHEM 2613 Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)	4
& CHEM 2611L Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)	
or CHEM 3603 and CHEM 3601L	
Related Elective	6
PSYC 3023 Abnormal Psychology	3
Year Total:	16 16

Fourth Year	Units
	FallSpring
EXSC 4323 Exercise Prescription	3
EXSC 4833 Exercise Applications for Special Populations	3
or EXSC 4833H Honors Exercise Applications for Special Populations	
Social Science-University Core	3
Related Elective	3 -
EXSC 4783 Sport and Exercise Psychology	3
EXSC 4903 Internship in Exercise Science1	3
or KINS 405V Independent Study	

or [KINS 405VH](#) Honors Independent Study
 or [KINS 498VH](#) Kinesiology Honors Thesis/Project

EXSC 4773 Performance and Drugs	3
Related Elective	6
Year Total:	12 12

Total Units in Sequence: 120

1 Use of [KINS 498VH](#) only for students completing the College of Education and Health Professions Honors Program.

Are Similar Programs available in the area?

No

Estimated Student Demand for Program 750

Scheduled Program Review Date 2023-2024

Program Goals and Objectives

Program Goals and Objectives

The program in kinesiology is designed to prepare candidates for a variety of career options in the vast field of movement science. Career opportunities may include teaching physical education, coaching, analyzing and prescribing fitness programs, athletic training, or preparation for professional programs in allied health.

Learning Outcomes

Learning Outcomes

Graduates of this program should be well prepared to enter graduate programs of study in such areas as exercise physiology, biomechanics, athletic training, sport management, medical school, physical therapy school, and other allied health professional schools.

Description and justification of the request

Description of specific change	Justification for this change
Added option of BIOL 1584 to general biology requirement and STAT 2023 as option for statistics courses. In addition, added option of CHEM 3703/3702L to organic chemistry requirement,	To eliminate the need for program modifications while allowing program flexibility.
Expanded alpha codes that are accepted for related electives.	Allows students to pursue minors related to exercise science.

Description of specific change	Justification for this change
Moved EXSC 4783 from related electives to exercise science required core.	Allows program to meet state 30 hour requirement for program core. PBHL 2663 is in the process of being cross listed as EXSC 2663 which will fulfill 30 hour requirement.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (10/24/19 11:03 am): Inserted :: code for hours with ranges to reflect total as 120.

Alice Griffin (agriffin) (10/24/19 2:49 pm): Changed additional non-EXSC science requirements from 18 to 15 hours on behalf of submitter.

Key: 185