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: User ID: crsleaf1 Phone: 575-6731

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

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 (kjvestal)
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 hours needed to complete the program? 120

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	
PSYC 2003	General Psychology (ACTS Equivalency = PSYC 1103)	
Additional Required Sciences (20 hours)		
BIOL 2443	Human Anatomy (ACTS Equivalency = BIOL 2404 Lecture)	4
& BIOL 2441L	and Human Anatomy Laboratory (ACTS Equivalency = BIOL 2404 Lab)	
BIOL 2213	Human Physiology (ACTS Equivalency = BIOL 2414 Lecture)	4
& BIOL 2211L	and Human Physiology Laboratory (ACTS Equivalency = BIOL 2414 Lab)	

CHEM 1123	University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture)	4
& CHEM 1121L	and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)	
or CHEM 1223	Chemistry for Majors II	
& CHEM 1221L	and Chemistry for Majors II Laboratory	
CHEM 2613	Organic Physiological Chemistry (ACTS Equivalency = CHEM 1224 Lecture)	4-5
& CHEM 2611L	and Organic Physiological Chemistry Laboratory (ACTS Equivalency = CHEM 1224 Lab)	
or CHEM 3603	Organic Chemistry I	
& CHEM 3601L	and Organic Chemistry I Laboratory	
or CHEM 3703	Organic Chemistry I Lecture for Chemistry Majors	
& CHEM 3702L	and Organic Chemistry I Lab for Chemistry Majors	
PHYS 2013	College Physics I (ACTS Equivalency = PHYS 2014 Lecture)	4
& PHYS 2011L	and College Physics I Laboratory (ACTS Equivalency = PHYS 2014 Lab)	
Additional Non-EXSC Requirements (15 hours)		
NUTR 1213	Fundamentals of Nutrition	3
COMM 1313	Public Speaking (ACTS Equivalency = SPCH 1003)	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	
PBHL 2663	Terminology for the Health Professions	3
PSYC 3023	Abnormal Psychology	3
Exercise Science Core Required (27 hours)		
EXSC 2733	Introduction to Exercise Science	3
EXSC 3153	Exercise Physiology 2	3
EXSC 3353	Mechanics of Human Movement 2	3
EXSC 3533	Laboratory Techniques 2	3
EXSC 4323	Exercise Prescription	3
EXSC 4773	Performance and Drugs	3
EXSC 4783	Sport and Exercise Psychology	3
~~KINS 3901H~~	~~Kinesiology Honors Thesis Tutorial~~	
~~PBHL 4603~~	~~Health Behavior: Theories and Application~~	
~~PBHL 4613~~	~~Principles of Epidemiology~~	
~~PHED 3223~~	~~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)~~	
EXSC 4833	Exercise Applications for Special Populations	3
or EXSC 4833H	Honors Exercise Applications for Special Populations	
EXSC 4903	Internship in Exercise Science 1	3
or KINS 405V	Independent Study	
or KINS 498VH	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 KINS 498VH option available only if completing Honors Program

2 Course requires C or better for degree award

8-Semester Plan

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.

classes to graduate. Find out more about the University Core requirements.

First Year	Units	
	Fall	Spring
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3	
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture)	4	
& CHEM 1101L University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab)		
or CHEM 1203 and CHEM 1201L		
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)	4	
& BIOL 1541L Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab)		
or BIOL 1584 Biology for Majors (ACTS Equivalency = BIOL 1014 Lecture)		
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)		4
& CHEM 1121L University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab)		
or CHEM 1223 and CHEM 1221L		
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	
	Fall	Spring
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)	3	
or HIST 2013 History of the American People, 1877 to Present (ACTS Equivalency = HIST 2123)		
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	
	Fall	Spring
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	
	Fall	Spring
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.
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