

UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: Susan J. Hall phone number 2265

Action: Add 4+1 option to M.S. in Exercise Science, Motor Control Concentration
(Example: add major/minor/concentration, delete major/minor/concentration, revise major/minor/concentration, academic unit name change, request for permanent status, policy change, etc.)

Effective term 06F
(use format 04F, 05W)

Current degree BS, MS
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed change leads to the degree of: BS, MS
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed name: 4+1 Degree in Exercise Science, Motor Control Concentration
Proposed new name for revised or new major / minor / concentration / academic unit
(if applicable)

Revising or Deleting:

Undergraduate major / Concentration: _____
(Example: Applied Music – Instrumental degree BMAS)

Undergraduate minor: _____
(Example: African Studies, Business Administration, English, Leadership, etc.)

Graduate Program Policy statement change: _____
(Attach your Graduate Program Policy Statement)

Graduate Program of Study: _____
(Example: Animal Science: MS Animal Science: PHD Economics: MA Economics: PHD)

Graduate concentrations: _____

List program changes for curriculum revisions:

The 4+1 degree program in Exercise Science combines the 4-year B.S. degree and the 2-year M.S. degree into an accelerated 5 year program. The 1-year savings is achieved by utilizing a portion of the undergraduate electives for graduate coursework, and by replacing three required undergraduate courses with three corresponding graduate courses. Specifically, STAT200 (Basic Statistical Practice) will be replaced by HESC602 (Elementary Statistics), HESC400 (Research Methods) will be replaced by HESC601 (Research Methods), and HESC428 (Motor Control and Learning)(course currently proposed) will be replaced by HESC807 (Motor Learning and Control) (being renumbered to HESC 607).

List new courses required for the new or revised curriculum:

(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter "None")

HESC429

HESC803, Laboratory Instrumentation, is being renumbered to HESC689 and HESC807, Motor Learning and Control, is being renumbered to HESC607 for access by appropriate undergraduate students.

Other affected units:

(List other departments affected by this new or revised curriculum. Attach permission from the affected units. If no other unit is affected, enter "None")

none

Rationale:

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

Creation of the 4+1 curriculum was based on the fact that the vast majority of undergraduate Exercise Science students pursue graduate education. The 4+1 curriculum would allow highly qualified students to accelerate the timetable for the B.S. and M.S. requirements and position them to obtain doctoral degrees or to start a career in a shorter period of time.

Program Requirements:

(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the present curriculum.)

FIVE-YEAR COMBINED B.S./M.S. IN EXERCISE SCIENCE

Qualified undergraduate students in the Exercise Science major may apply for admission to the 4+1 option, which combines selected requirements of the undergraduate and master's degree programs in Exercise Science. Whereas the traditional programs for the B.S. and M.S. degrees in Exercise Science involve 4 years of undergraduate work and 2 years of graduate work, the 4+1 option enables students to earn both degrees in a 5 year period. Students who complete the 4+1 program will graduate with both a Bachelor of Science degree and a Master of Science degree in Exercise Science with a concentration in Biomechanics, Exercise Physiology, or Motor Control.

APPLICATION PROCEDURE

Students may apply for admission to the 4+1 program at the end of the sophomore year. The application process requires submission of a completed graduate application form for review by the Exercise Science Graduate Program Committee. Initial admission will be based upon the student's ability to meet the following recommended entrance criteria:

- Combined math and verbal SAT scores of at least 1100.
- An undergraduate GPA of at least 3.25
- Completion of all courses specified for the freshman and sophomore years in the concentration program of study
- At least 50 documented hours of volunteer time in exercise science related laboratory settings
- Submission of an in-person writing sample, to be obtained during a formal interview with a faculty advisory committee
- Acceptance by a prospective primary advisor for the master's thesis

MAINTAINING STATUS WITHIN THE PROGRAM

Upon admission into the program and prior to the start of the junior year of study, the student will meet with their graduate advisor and submit a planned program of study, including all elective courses, to the Exercise Science Graduate Program Committee. Planned programs of study are due by the end of fall semester of the student's junior year.

Continuation in the 4+1 program is contingent upon maintaining a cumulative GPA of at least 3.0 in all undergraduate and graduate coursework and demonstrating satisfactory progress in the program. Satisfactory progress includes following the prescribed program of study and, beginning in the fourth year, making satisfactory progress toward the master's thesis. (A thesis proposal will be completed in HESC601 during the fall semester of the senior year.)

Each student's progress and GPA will be evaluated at the end of each academic year by the student's advisor and the Exercise Science Graduate Program Committee. Students who fail to meet the minimum GPA requirements or fail to show progress toward the degree will be placed into the B.S. degree program corresponding with their area of concentration.

DEGREE: 4+1 BACHELOR OF SCIENCE, MASTER OF SCIENCE MAJOR: EXERCISE SCIENCE CONCENTRATION: MOTOR CONTROL

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS (6 Credits)

ENGL 110 Critical Reading and Writing (minimum grade C-)	3
Multicultural course: Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content	3

BREADTH REQUIREMENTS (38 Credits)

Humanities and Communication Skills.....9

Social Sciences

PSYC 100 General Psychology3

PSYC 325 Child Psychology

Or

PSYC 334 Abnormal Psychology3

Natural/Biological Sciences and Mathematics

BISC 207 Introductory Biology I4

BISC 208 Introductory Biology II4

CHEM 103 General Chemistry.....4

CHEM 104 General Chemistry.....4

MATH 241 Analytic Geometry and Calculus A4

NTDT 200 Nutrition Concepts3

MAJOR REQUIREMENTS (23-24 Credits, min grade C- in each except HESC205)

BISC 276 Human Physiology4

Or

BISC 306 General Physiology3

HESC 205 Freshman Seminar in Exercise Science (PF).....1

HESC 250 Motor Development.....3

HESC 310 Pre-Clinical Anatomy and Physiology4

HESC 375 Neuromechanical Basis of Human Movements	3
HESC 426 Biomechanics I	4
HESC 429 Motor Control and Learning Laboratory	1
HESC 430 Physiology of Activity	3
HESC 431 Physiology of Activity Lab.....	1

CONCENTRATION REQUIREMENTS (45 Credits, min grade C- in each)

HESC 485 Research in Exercise Science	3
HESC 601 Research Methods.....	3
HESC 602 Elementary Statistics	3
HESC 603 Seminar in Exercise Science (4 semesters)	0
HESC 807 (being renumbered to HESC 607) Motor Learning and Control.....	3
HESC 651 Neurophysiological Basis of Human Movement.....	3
HESC 808 Seminar in Motor Control.....	3
HESC 803 Laboratory Instrumentation (being renumbered to HESC 689)	3
HESC 869 Thesis in Motor Control	6
MATH 242 Analytic Geometry and Calculus B.....	4
MEEG 112 Statics	3
PHYS 207 Fundamentals of Physics I.....	4
PHYS 208 Fundamentals of Physics II.....	4

Plus a minimum of 2 of the following courses referred to as Graduate Area B:

HESC 650	Life Span Motor Development	3
HESC 666	Independent Study	3
HESC 690	Biomechanical Methods	3
STAT 615	Design and Analysis of Experiments	3
STAT 617	Multivariate Methods	3
EDUC 861	Introduction to Statistical Inference	3
EDUC 862	Principles of Experimental Design	3
EDUC 863	Learning and Development	3
PSYC 612	Human Psychophysiology	3
PSYC 626	Neuroscience I	

3

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credits required for the degree.

CREDITS TO TOTAL A MINIMUM OF125

4+1 DEGREE PROGRAM REQUIREMENTS
BS AND MS IN EXERCISE SCIENCE (Motor Control Concentration)

Freshman Year

Fall Semester		Spring Semester		
HESC205	1	Breadth (ENGL110)	3	
Breadth (NTDT200)	3	Breadth (CHEM104)	4	
Breadth (CHEM103)	4	Breadth (BISC208)	<u>4</u>	
Breadth (BISC207)	<u>4</u>	Total	11	
Total	12			

Sophomore Year

HESC250	3	HESC310	4	
BISC276 or BISC306	4/3	MATH242	4	
PHYS207	4	PHYS208	4	
Breadth (MATH241)	<u>4</u>	Breadth (PSYC100)	<u>3</u>	
Total	15/14	Total	15	

Junior Year

MEEG112	3	HESC430	3	
HESC375	3	HESC431	1	
HESC429	1	HESC602	3	
HESC426	4	Breadth (Humanities/Communication)	3	
HESC 807 (Renumber to 607)	<u>3</u>	Breadth (PSYC325 or 334)	3	
Total	14	HESC485	<u>3</u>	
		Total	16	

Senior Year

HESC603 Seminar	0	HESC603 Seminar	0	
Breadth (Humanities/Communication)	3	Breadth (multicultural)	3	
HESC651	3	Breadth (Humanities/Communication)	3	
HESC601	<u>3</u>	HESC808	<u>3</u>	
Total	9	Total	9	

5th Year

HESC603 Seminar	0	HESC603 Seminar	0	
Graduate Area B	3	Graduate Area B	3	
HESC803 (Renumber to 689)	3	HESC 869 (Thesis)	<u>3</u>	
HESC 869 (Thesis)	<u>3</u>	Total	6	
Total	9			

NOTE: Electives not shown. Sufficient elective courses must be taken for students to be enrolled in at least 12 credits each semester for the first four years and for the total number of credits for the degree to be at least 125.

ROUTING AND AUTHORIZATION: (Please do not remove supporting documentation.)

Department Chairperson *Susan J. Hall* Date 11/18/05

Dean of College _____ Date _____

Chairperson, College Curriculum Committee *W. Hall* Date 12/5/05

Chairperson, Senate Com. on UG or GR Studies _____ Date _____

Chairperson, Senate Coordinating Com. _____ Date _____

Secretary, Faculty Senate _____ Date _____

Date of Senate Resolution _____ Date to be Effective _____

Registrar _____ Program Code _____ Date _____

Vice Provost for Academic Programs & Planning _____ Date _____

Provost _____ Date _____

Board of Trustee Notification _____ Date _____

Revised 11/03/04 /khs