

**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 x4909

**Department:** Health, Nutrition, and Exercise Sciences email address sjhall@udel.edu

**Action:** add Ph.D. program in Applied Physiology  
(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** 10F  
(use format 04F, 05W)

**Current degree** \_\_\_\_\_  
(Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

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

**Proposed name:** \_\_\_\_\_  
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:** \_\_\_\_\_  
(Must attach your Graduate Program Policy Statement)

**Graduate Program of Study:** \_\_\_\_\_  
(Example: Animal Science: MS Animal Science: PHD Economics: MA Economics: PHD)

**Graduate minor / concentration:** \_\_\_\_\_

**Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.**

**List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?**

(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")

None.

**Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education:**  
<http://www.ugs.udel.edu/gened/>

N/A

**Identify other units affected by the proposed changes:**

(Attach permission from the affected units. If no other unit is affected, enter "None")

Letter from Biology attached.

**Describe the rationale for the proposed program change(s):**

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

During spring 2009 the Exercise Science program within the Department of Health, Nutrition & Exercise Sciences underwent an Academic Program Review. One of the specific recommendations of the external review team was the establishment of a doctoral program within the Department of Health, Nutrition and Exercise Sciences in the area of physiology. The reviewers noted that the department's physiology faculty, while extremely productive, are hampered by the absence of a doctoral program for training students. Although these faculty belong to the Biomechanics and Movement Science program, it has proved difficult to attract doctoral students who wish to specialize in physiology to a program named Biomechanics and

Movement Science. The reviewers specifically recommended that the new doctoral program be housed within the department and not be configured as an interdisciplinary program shared by multiple departments in order to keep it sufficiently focused. It is also requisite for the department to have a Ph.D. program in order to be nationally ranked by the American Academy of Kinesiology and Physical Education.

The faculty within the Department of Health, Nutrition and Exercise Sciences who will be affiliated with this program have all been supervising graduate students within the interdisciplinary Biomechanics and Movement Science (BMSC) program. We currently (F09) have faculty supervising 17 BMSC students, as well as 1 Ph.D. student in Biology and with another student accepted into the Ph.D. program in Biology to start in S10. These students have all been funded through research assistantships on externally funded grants, (primarily from NIH,) department teaching assistantships, or university fellowships. Funding for students in the Applied Physiology program will continue to come from these same sources. **The Department of Health, Nutrition and Exercise Sciences currently has in place the faculty, the laboratories, the courses, and the funding needed in order for the proposed Ph.D. in Applied Physiology to be successful.**

### **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 current curriculum and **include a side-by-side comparison** of the credit distribution before and after the proposed change.)

### **Ph.D. in Applied Physiology**

#### Admission Requirements

Admissions decisions are made by the Applied Physiology Program Committee. Students will be admitted to the program based on enrollment availability and their ability to meet the following minimum recommended entrance requirements:

- BS, MS or equivalent degree from an accredited college or university.
- GRE scores of at least 600 on math and at least 450 on verbal
- An undergraduate GPA of 3.0 or higher
- Written statement of goals and objectives (the personal statement) that clearly identifies the applicant's research and curriculum interests and explains how admission to the program will facilitate his/her professional objectives.
- Current résumé and three letters of recommendation.

All students will be expected to be sufficiently conversant in English and knowledgeable in the written word to convey clear, logical and complex written expressions. Knowledge of mathematics and statistics is expected.

Students admitted to the Applied Physiology Program may be admitted into one of two categories:

1. Regular status is offered to students who meet all of the established entrance requirements, who have a record of high scholarship in their fields of specialization, and who have the ability, interest, and maturity necessary for successful study at the graduate level in a degree program.
2. Provisional status is offered to students who are seeking admission to the degree program but lack one or more of the specified prerequisites. All provisional requirements must be met within the deadline given before regular status can be granted. Students admitted with provisional status are generally not eligible for assistantships or fellowships. Students who file an application during the final year of undergraduate or current graduate work and are unable to supply complete official transcripts showing the conferral of the degree will be admitted pending conferral of the degree if their records are otherwise satisfactory and complete.

### **Degree Requirements for the Ph.D. in Applied Physiology**

#### Course Requirements

The Doctor of Philosophy in Applied Physiology requires a minimum of 46 credits including 9 credits of dissertation. The program is designed to be completed in 4 years. The 46 required credits are specified in the student's plan of study and normally include:

#### Required courses (28 credits)

BISC605	Advanced Mammalian Physiology	(3)
HESC654	Survey of Medical Physiology	(3)
BISC631	Practice of Science	(3)
APHY868	Research	(12)
HESC602	Data Analysis and Interpretation	
or		
BISC643	Biological Data Analysis	(3)
APHY 801	Seminar in Applied Physiology	
(Seminar taken 8 semesters, 4 semesters for credit and 4 semesters as listener.)		(4)

#### Elective Courses (9 credits)

Students who have had substantially similar courses to one or more of those required prior to entering the Applied Physiology

Program may substitute other appropriate courses with the approval of the advisor and the Program Committee.

Only those courses in the 600, 800, and 900 levels will apply towards the doctoral degree. Independent study courses will be accepted based on approval of the advisor and the Department Chair. A maximum of 9 independent study credits may be included in the program of study.

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

Department Chairperson \_\_\_\_\_ Date 10/31/09

Dean of College \_\_\_\_\_ Date \_\_\_\_\_

Chairperson, College Curriculum Committee \_\_\_\_\_ Date \_\_\_\_\_

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 Affairs & International Programs \_\_\_\_\_ Date \_\_\_\_\_

Provost \_\_\_\_\_ Date \_\_\_\_\_

Board of Trustee Notification \_\_\_\_\_ Date \_\_\_\_\_  
Revised 10/23/2007 /khs