

Transmittal Memo

Date: November 10, 2010

To: Steve Mitchell, PhD, Interim Undergraduate Curriculum Committee Co-Chair

From: Ellen Glickman, PhD FACSM, Program Coordinator, Exercise Physiology

Re: Program Requirement Revision

This proposal is to revise the program requirements for the Exercise Physiology concentration within the BS Exercise Science degree [BS EXSI EXPH].

Curricular/consultative bodies that have approved this action:

EXSI Program: October 19, 2010

HS SCC: November 8, 2010

Presented to EHHS Curriculum Committee: December 3, 2010

Presented to EPC: January 24, 2011

KENT STATE UNIVERSITY

CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date 19-Oct-10 Curriculum Bulletin _____
Effective Date Fall 2011 Approved by EPC _____

Department School of Health Sciences
College EH - Education, Health and Human Services
Degree BS - Bachelor of Science
Program Name **Exercise Science** Program Code **EXSI**
Concentration(s) Exercise Physiology Concentration(s) Code(s) EXPH
Proposal Revise Program Requirement

Description of proposal:

Revise program requirements by removing one course and increasing guided electives.

Does proposed revision change program's total credit hours? ☐ Yes ☒ No

Current total credit hours: 121 Proposed total credit hours 121

Describe impact on other programs, policies or procedures (e.g., encroachment and duplication issues; enrollment and staffing considerations; need; audience; prerequisites; teacher education licensure):

None

Units consulted (other departments, programs or campuses affected by this proposal):

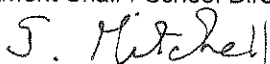
Chemistry: informed of removal of required course

REQUIRED ENDORSEMENTS



Department Chair / School Director / Campus Dean

11/8/10



College Dean

12/9/10

Dean of Graduate Studies (for graduate proposals)

1/1/

Provost and Senior Vice President for Academic Affairs

1/1/

Proposal Summary

Title: Program Requirement Revision

Subject Specification: This proposal will revise program requirements for the Exercise Physiology Concentration within the Bachelor Science degree in Exercise Science [BS EXSI EXPH].

Background Information: Due to the focus of the concentration, which is for preparation for continued study in the Allied Health Care Professions, *Introduction to Biological Chemistry* is no longer a needed requirement. Removing this course as a requirement will lead to an increase in guided electives, giving students more flexibility in the focus of their required coursework.

Alternatives and Consequences: If this proposal is not approved, students will continue to be required to take a course that does not meet the requirements for their profession.

Specific Recommendation and Justification: Remove CHEM 30284 *Introduction to Biological Chemistry* (4 cr) from Concentration Requirement. Increase Guided Electives by 4 credits, thereby maintaining the total credit hours required for graduation of 121.

Timetable and Actions Required: The proposal will go through the required curriculum approval process for changes to take effect in fall 2011. The following is the anticipated schedule:

Approved by EXSI program area: October 19, 2010

Approved by HS Curriculum Committee: November 8, 2010

Presented to EHHS Curriculum Committee: December 3, 2010

Presented to EPC: January 24, 2011

Exercise Science - B.S. Program Requirements

- Exercise Physiology Concentration
- Exercise Specialist Concentration

Type Legend: DD Diversity--Domestic; DG Diversity--Global; KAD Kent Core Additional; KBS Kent Core Basic Sciences; KCM Kent Core Composition; KFA Kent Core Fine Arts; KHU Kent Core Humanities; KMC Kent Core Mathematics and Critical Reasoning; KSS Kent Core Social Sciences; WIC Writing Intensive

Please read the sections in the University Catalog on [Kent Core](#), [diversity](#) and [writing-intensive](#) requirements.

I. DESTINATION KENT STATE: FIRST YEAR EXPERIENCE (1 credit)

| Type | Course | Title | Credits |
|------|----------|---|---------|
| | US 10097 | Destination Kent State: First Year Experience | 1 |

II. MAJOR PROGRAM REQUIREMENTS (35 credits) *Courses count in major GPA*

| Type | Course | Title | Credits |
|------|---------------------|--|---------|
| | ATTR 25036 | Principles of Athletic Training | 3 |
| | ATTR/ EXSC 25057 | Human Anatomy and Physiology I | 3 |
| | 25058 | Human Anatomy and Physiology II | 3 |
| | 35054 | Biomechanics | 3 |
| | EXSC 15010 | Introduction to Exercise Science | 2 |
| | 35022 | Exercise Leadership | 3 |
| | 45080 | Physiology of Exercise | 3 |
| | 33512 | Nutrition | 3 |
| WIC | PEB 10035 | Lifetime Fitness | 2 |
| | 12424 | Exercise and Weight Control | 1 |
| | PEP 25033 | Lifespan Motor Development | 3 |
| | 25068 | Measurement and Evaluation | 3 |
| | 35010 | Psychological Dimensions of Motor Behavior | 3 |

III. ADDITIONAL PROGRAM REQUIREMENTS (27 credits)

| Type | Course | Title | Credits |
|-----------|------------|---|---------|
| KSS DD | PSYC 11762 | General Psychology | 3 |
| KSS | GERO 14029 | Introduction to Gerontology | 3 |
| KMC | MATH 11009 | Modeling Algebra (4) | 3-4 |
| | 11010 | Algebra for Calculus (3) | |
| KAD | NUTR 23511 | Science of Human Nutrition | 3 |
| | | Kent Core Composition | 6-8 |
| | | Kent Core Humanities and Fine Arts (minimum one course from each) | 9 |

IV. CONCENTRATION REQUIREMENTS (58 credits)

- Exercise Physiology (58)
- Exercise Specialist (58)

MINIMUM TOTAL 121

*A minimum C (2.0) grade must be earned with to fulfill the writing-intensive requirement.

Exercise Physiology Concentration

For semester-by-semester course sequencing for this program, view the [2010-2011 Roadmap](#).

I. CONCENTRATION REQUIREMENTS (12 credits) Courses count in major GPA

| Type | Course | Title | Credits |
|------|------------------|---|--------------|
| | CHEM 20481 | Basic Organic Chemistry I | 4 |
| | 30284 | Introduction to Biological Chemistry | 4 |
| | EXSC 45096 | Individual Investigation in Exercise Science | 3 |
| | 45481 | Senior Seminar in Exercise Science | 1 |

II. ADDITIONAL CONCENTRATION REQUIREMENTS (46 credits)

| Type | Course | Title | Credits |
|------|--|---------------------------------|---------------------|
| KBS | CHEM 10060 | General Chemistry I | 4 |
| KBS | 10061 | General Chemistry II | 4 |
| KBS | 10062 | General Chemistry I Laboratory | 1 |
| KBS | 10063 | General Chemistry II Laboratory | 1 |
| | Kent Core Additional (must be from two categories) | | 3 |
| | Guided Electives (number of credits required depends on meeting minimum 121 credit hours and minimum 39 upper-division credit hours) | | 37 38 |
| | MINIMUM TOTAL | | 58 |

Exercise Specialist Concentration

For semester-by-semester course sequencing for this program, view the [2010-2011 Roadmap](#).

I. CONCENTRATION REQUIREMENTS (27 credits) Courses count in major GPA

| Type | Course | Title | Credits |
|------|------------|---|---------|
| | ATTR 45039 | Therapeutic Rehabilitation | 4 |
| | 45040 | Pathology and Pharmacology | 3 |
| | CHEM 20284 | Physiological Chemistry | 4 |
| | EXSC 35075 | Exercise Programming | 3 |
| | 40612 | Exercise Leadership for the Older Adult | 3 |
| | 45065 | Exercise Testing | 3 |
| | 45070 | Electrocardiography for the Exercise Physiologist | 3 |
| | 45480 | Internship Seminar in Exercise Science | 1 |
| | 45492 | Internship in Physical Fitness/Cardiac Rehabilitation | 3 |

II. ADDITIONAL CONCENTRATION REQUIREMENTS (31 credits)

| Type | Course | Title | Credits |
|---|------------|-----------------------------------|---------|
| KBS | CHEM 10050 | Fundamentals of Chemistry | 3 |
| KBS | 10052 | Introduction to Organic Chemistry | 2 |
| KBS | 10053 | Inorganic and Organic Chemistry | 1 |
| Kent Core Additional (must be from two categories) | | | 3 |
| Guided Elective (number of credits required depends on meeting minimum 121 credit hours and minimum 39 upper-division credit hours) | | | 22 |
| MINIMUM TOTAL | | | 58 |

KENT STATE UNIVERSITY, COLLEGE OF
EDUCATION, HEALTH, AND HUMAN SERVICES

Exercise Sciences
EXSI EXPH or EXSP

121 hours
CY2010

Name: _____

Catalog Year: _____

Banner#: _____

Date: _____

Please note: This requirement sheet will become void unless 12 hours of credit at Kent State University have been earned in a two-year period. Preserve this sheet. It is your only assured official statement of degree requirements.

General Course Work (37-38 Exer. Spec. or 38-39 Exer. Phys. hours) 41-42

US 10097 DKS: First Year Experience..... 1

Composition

ENG 11011 College Writing I 3
ENG 21011 College Writing II 3

Mathematics & Critical Reasoning

MATH 11009 Modeling Algebra (4) *OR*
11010 Algebra for Calculus (3) 3-4

Social Sciences

PSYC 11762 General Psychology 3
GERO 14029 Intro to Gerontology 3

Humanities and Fine Arts

(See Reverse)

Select 3 from Humanities & Fine Arts. One must be
from Arts & Sciences and one must be a fine arts course.

(A&S) 3
..... 3
(Fine Arts) 3

Diversity requirements met? ☐ Global ☐ Domestic

Basic Sciences (6 or 10 hours)

Take appropriate CHEM courses based on Option chosen (see below)

Exercise Physiology: (10 hours)

| | | | |
|------|-------|-------------------------------|---|
| CHEM | 10060 | General Chemistry I..... | 4 |
| CHEM | 10062 | General Chemistry I Lab..... | 1 |
| CHEM | 10061 | General Chemistry II..... | 4 |
| CHEM | 10063 | General Chemistry II Lab..... | 1 |

OR Exercise Specialist: (6 hours)

| | | | |
|------|-------|---------------------------------------|---|
| CHEM | 10050 | Fundamentals of Chemistry..... | 3 |
| CHEM | 10052 | Intro to Organic Chemistry..... | 2 |
| CHEM | 10053 | Inorganic & Organic Lab (Spr only)... | 1 |

Additional

NUTR 23511 Science of Human Nutrition 3

Choose One Course from Additional (See Reverse)-not a Basic Sci

..... 3

Major Course Work (47 Exer. Phys. or 62 Exer. Spec. Hours) 43

A minimum 2.25 GPA or better is required in all major coursework

Core Requirements (29 hours)

ATTR 25036 Principles of Athletic Training 3
EXSC 15010 Intro to Exercise Science 2
EXSC 25057 Human Anatomy & Physiology I 3
EXSC 25058 Human Anatomy & Physiology II (25057) 3
EXSC 35054 Biomechanics (prereq. 25057)..... 3
EXSC 45080 Physiology of Exercise (prereq. 25058) 3
NUTR 33512 Nutrition (prereq. CHEM 20481) 3
PEP 25033 Lifespan Motor Development..... 3
PEP 25068 Measurement & Evaluation..... 3
w PEP 35010 Psych Dimensions (prereq. 25068)..... 3

Fitness Assessment (6 hours)

| | | |
|------|-------|----------------------------------|
| PEB | 10035 | Lifetime Fitness 2 |
| PEB | 12424 | Exercise & Weight Control..... 1 |
| EXSC | 35022 | Exercise Leadership 3 |

Option II: Exercise Specialist (27 hours) (EXSP)

| | | |
|------|-------|---|
| ATTR | 45039 | Therapeutic Rehabilitation..... 4 |
| ATTR | 45040 | Path and Pharm for Allied Health 3 |
| CHEM | 20284 | Physiological Chemistry (Fall Only)(CHEM 10052) 4 |
| EXSC | 35075 | Exercise Programming (Spring only)(10035) 3 |
| EXSC | 40612 | Exercise Leadership for the Older Adult..... 3 |
| EXSC | 45065 | Exercise Testing (Fall only)(35075&45080)..... 3 |
| EXSC | 45070 | Electrocardiography for Ex. Phys. 3 |
| EXSC | 45480 | Internship Seminar (Spring Only)..... 1 |
| EXSC | 45492 | Internship Phys Fit/Cardiac Rehab (45490) 3 |

Option I: Exercise Physiology (12 hours) (EXPH)

| | | |
|------|-------|---|
| CHEM | 20481 | Basic Organic Chemistry I (CHEM 10061)..... 4 |
| CHEM | 30284 | Intro to Biological Chemistry (prereq. 20481) 4 |
| EXSC | 45481 | Senior Seminar (Fall Only) 1 |
| EXSC | 45096 | Individual Investigation in Exercise Sci..... 3 |

Electives: 21-22 hours for Exer. Spec. (1 upper division hour) or 36-37 for Exer. Phys. (16 upper division hours) 36-37 20

See faculty advisor

I have reviewed the requirement sheet and professional requirements with an advisor
and assume responsibility for remaining informed and completing my program.

Student Signature _____

Professional Advisor's Signature _____

Each semester, meet with your Assigned Faculty Advisor: _____

Please refer to page 2 for program notes.

Total Hours Completed _____

Hours Needed: _____

General Coursework _____

Core _____

Movement Exper. _____

Option _____

Upper Division Hours _____

General Electives _____

Total for Degree _____



This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

| Course Subject and Title | Credit Hours | Upper Division | Min. Grade | Important Notes |
|---|--------------|----------------|------------|--|
| Semester One: [14-15 Credit Hours] | | | | |
| CHEM 10060 General Chemistry I | 4 | | | Fulfills Kent Core Basic Sciences |
| CHEM 10062 General Chemistry I Laboratory | 1 | | | Fulfills Kent Core Basic Sciences |
| EXSC 15010 Introduction to Exercise Science | 2 | | | |
| MATH 11009 Modeling Algebra or MATH 11010 Algebra for Calculus | 3-4 | | | Fulfills Kent Core Mathematics and Critical Reasoning |
| US 10097 Destination Kent State: FYE | 1 | | | Not required of transfer students with 25 credits |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Semester Two: [16 Credit Hours] | | | | |
| CHEM 10061 General Chemistry II | 4 | | | Fulfills Kent Core Basic Sciences |
| CHEM 10063 General Chemistry II Laboratory | 1 | | | Fulfills Kent Core Basic Sciences |
| PEB 10035 Lifetime Fitness | 2 | | | |
| PSYC 11762 General Psychology | 3 | | | Fulfills Kent Core Social Sciences and domestic diversity course requirement |
| Kent Core Requirement | 6 | | | See Kent Core Summary on page 2 |
| Semester Three: [14 Credit Hours] | | | | |
| CHEM 20481 Basic Organic Chemistry I | 4 | | | Offered in fall only |
| PEB 12424 Exercise and Weight Control | 1 | | | |
| PEP 25033 Lifespan Motor Development | 3 | | | |
| ATTR 25057 Human Anatomy and Physiology I or EXSC 25057 Human Anatomy and Physiology I | 3 | | | |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Semester Four: [15 Credit Hours] | | | | |
| GERO 14029 Introduction to Gerontology | 3 | | | Fulfills Kent Core Social Sciences |
| ATTR 25058 Human Anatomy and Physiology II or EXSC 25058 Human Anatomy and Physiology II | 3 | | | |
| PEP 25068 Measurement and Evaluation | 3 | | | |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Guided Elective (lower or upper division) | 3 | | | Consult major advisor on course selection |
| Semester Five: [16 Credit Hours] | | | | |
| ATTR 25036 Principles of Athletic Training | 3 | | | |
| EXSC 45481 Senior Seminar in Exercise Science | 1 | ■ | | Offered in fall only |
| NUTR 23511 Science of Human Nutrition | 3 | | | Fulfills Kent Core Additional |
| PEP 35010 Psychological Dimensions of Motor Behavior | 3 | ■ | C | Fulfills writing-intensive course requirement |
| ATTR 35054 Biomechanics or EXSC 35054 Biomechanics | 3 | ■ | | |
| Kent Core Requirement | 3 | | | See Kent Core Summary on page 2 |
| Semester Six: [16 Credit Hours] | | | | |
| CHEM 30284 Introduction to Biological Chemistry | 4 | ■ | | Offered in spring only |
| PEP 35022 Exercise Leadership | 3 | ■ | | |
| Guided Electives (upper division) | 8/3 | ■ | | Consult major advisor on course selection |
| Semester Seven: [15 Credit Hours] | | | | |
| NUTR 33512 Nutrition | 3 | ■ | | |
| Guided Electives (7 credits must be upper division) | 12 | ■ | | Consult major advisor on course selection |



Critical requirements are boldface in shaded areas

| Course Subject and Title | Credit Hours | Upper Division | Min. Grade | Important Notes |
|---|--------------|----------------|------------|---|
| Semester Eight: [15 Credit Hours] | | | | |
| EXSC 45096 Individual Investigation in Exercise Science | 3 | ■ | | |
| EXSC 45080 Physiology of Exercise | 3 | ■ | | |
| Guided Electives (lower or upper division) | 9 | | | Consult major advisor on course selection; number of credits depends on meeting minimum 121 credit hours and minimum 39 upper-division credit hours |

Graduation Requirements Summary

| Minimum Total Hours | Minimum Upper-Division Hours | Minimum Kent Core Hours | Diversity Course Global / Domestic | Writing-Intensive | Minimum Major GPA | Minimum Overall GPA |
|---------------------|------------------------------|-------------------------|--|-------------------|-------------------|---------------------|
| 121 | 39 | 36 | Kent Core or Guided Electives / PSYC 11762 | PEP 35010 | 2.25 | 2.0 |

Kent Core Summary

| Kent Core Categories | Important Notes | Remaining Credit Hours |
|--|---|------------------------|
| Additional (6 credit hours) <i>Must be selected from two Kent Core categories</i> | 3 credits fulfilled in this major with NUTR 23511; may fulfill global diversity requirement | 3 |
| Basic Sciences (6-7 credit hours) <i>Must include one laboratory</i> | Fulfilled in this major with CHEM 10060, CHEM 10061, CHEM 10062, CHEM 10063 | 0 |
| Composition (6-8 credit hours) <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i> | Enrollment based on placement test | 6-8 |
| Humanities and Fine Arts (9 credit hours) <i>Minimum one course from humanities in Arts and Sciences category and minimum one course from fine arts category</i> | May fulfill global diversity requirement | 9 |
| Mathematics and Critical Reasoning (3-5 credit hours) | Fulfilled in this major with MATH 11009 or MATH 11010 | 0 |
| Social Sciences (6 credit hours) <i>Must be selected from two curricular areas</i> | Fulfilled in this major with GERO 14029 and PSYC 11762 | 0 |

Note: A minor may be selected to meet the students' personal interests as well as to enhance their professional preparation. Students interested in research careers in exercise physiology should consult their advisor about enhancing their sciences preparation. If a minor is included, total coursework may exceed the minimum 121 credit hours required for graduation.

Kent Core

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit www.kent.edu/catalog/kent-core for course list.

Diversity Course Requirement

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit www.kent.edu/catalog/diversity for course list.

Writing-Intensive Course Requirement

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.00) grade. Visit www.kent.edu/catalog/wic for course list.

Upper-Division Requirement

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.

Subject: FW: Hello

Importance: High

From: GLICKMAN, ELLEN

Sent: Wednesday, October 20, 2010 10:18 AM

To: GERICKE, ARNE; GLICKMAN, ELLEN

Cc: BARKLEY, JACOB; Ridgel, Angela; AUGUSTINE, SUSAN

Subject: Hello

Importance: High

Dear Arne-

I am e-mailing you on behalf of the Exercise Science Faculty to share with you that we are in the process of eliminating CHEM 30284 Intro to Bio Chem from our Exercise Physiology requirements. This requirement most probably will not take effect until the Fall 11 AY. We believe this course, while it is an excellent course, most of our students are pursuing coursework in "Pre-physical therapy" and this course, therefore, does not fit their needs at this time.

Many thanks-

All the best

Ellen

Ellen Glickman, PhD FACSM

Professor and Coordinator Exercise Physiology

Kent State University

Exercise Science Laboratory

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Kent, OH 44242-0001

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Cell: 216-401 2332

www.personal.kent.edu/~eglickma/

TO: Susan Augustine
FROM: Ellen Glickman, Jacob Barkley, Angela Ridgel
Date: October 19, 2010
Re: Dropping CHEM 30284 *Intro to Biological Chemistry* from the Exercise Physiology Concentration

Please let this memo serve as agreement that we believe as a group that this course should be deleted from the EXERCISE PHYSIOLOGY Concentration in the Exercise Science Major.