FACULTY CURRICULUM COMMITTEE
SIGNATURE PAGE

- In section A, list ALL of the forms covered by this signature page. If you submit a form that is not listed in A, your proposal will be held back until we receive a new, updated signature page.
- You must obtain the signature of your department chair and dean before submitting your proposal.

A. FORMS COVERED BY THIS SIGNATURE PAGE. List each form you are submitting—for instance, PSYC 383, Course Form; PSYC, Change of Major Form; PSYC, Change of Minor Form.
  ✓ Change/Delete Program Form - Change prereqs for EXSC 433
  ✓ Change/Delete Program Form - Change credit hours for EXSC 439
  ✓ Course Form - Change prereqs for EXSC 433
  ✓ Course Form - Change credit hours for EXSC 439

B. APPROVAL AND SIGNATURES.

1. Signature of Department Chair or Program Director:
   Andrew H. Lewis __________________________ Date: 11/30/15

2. Signature of Academic Dean:
   __________________________________________ Date: 11/30/15

3. Signature of Provost:
   __________________________________________ Date: 1/8/16

4. Signature of Business Affairs (only for course fees):
   ________________________________ Date: ______________

5. Signature of Curriculum Committee Chair:
   __________________________________________ Date: ______________

6. Signature of Budget Committee Chair (only for new programs):
   __________________________________________ Date: ______________

7. Signature of Academic Planning Committee Chair (only for new programs):
   __________________________________________ Date: ______________

8. Signature of Faculty Senate Secretary:
   __________________________________________ Date: ______________

Date Approved by Faculty Senate: __________________________
Course Change Proposals for Faculty Curriculum Committee
Submitted by the Department of Health and Human Performance

Academic Year, 2016-2017

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FACULTY CURRICULUM COMMITTEE
COURSE FORM

Instructions:
- Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT/COURSE INFORMATION.

Name: William R. Barfield
Phone: 3-6746
Email: barfieldw@cofc.edu

Department or Program: Health & Human Performance
School: School of Education, Health & Human Performance

Subject Acronym and Course Number: EXSC 433

Catalog Year in which changes will take effect: FALL 2016

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Course (complete parts C, D, F, G, H, I, J)
☐ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
☐ Course Name
☐ Course Description
☐ Credit/Contact Hours
☐ Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

We have found that students having knowledge in EXSC 330-Kinesiology or EXSC 340 Exercise Physiology and Statistics (MATH 104 or 250) have adequate foundational knowledge to successfully meet the course objectives and student learning outcomes from EXSC 433. Students in the ES major have difficulty completing both listed prerequisites (EXSC 330-Kinesiology and EXSC 340-Exercise Physiology) prior to registering for EXSC 433 in a timely fashion due to pre-requisite requirements and lack of course offerings. It also creates an imbalance in registrants between fall and spring semesters.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

This form was last updated on 12/13/13 and replaces all others.
This will allow much greater flexibility for students to complete this required course and will have the added desirable benefits of leveling the registrants between the semesters.

E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department or Program: Health & Human Performance School: School of Education, Health & Human Performance  
Subject Acronym: EXSC  
Course Number: 433

Credit hours: 3 lecture __ lab __ seminar __ independent study
Contact hours: 3 lecture __ lab __ seminar __ independent study

Course title: Research Design and Analysis

Course description (maximum 50 words, exactly as it appears in the catalog):

This class will focus on data collection and interpretation in health and exercise science, including common physiological, biomechanical, anatomical, and health-related variables. Emphasis is placed on the development of a clinical research question and the appropriate procedures to further the body of knowledge in the area of health and exercise science.

Restrictions (pre-requisites, co-requisites, majors only, etc.): EXSC 330 and EXSC 340, and MATH 104 or 250; or permission of the instructor.

Cross-listing, if any:

Is this course repeatable? □ yes  x□ no  If yes, how many total credit hours may the student earn? ___________

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use boldface for the information that is changing.

Department or Program:  
Subject Acronym:  
Course Number:

Credit hours: __ lecture __ lab __ seminar __ independent study
Contact hours: __ lecture __ lab __ seminar __ independent study

Course title:

\new Pre requisite= EXSC 330 OR EXSC 340; MATH 104 OR MATH 250

If this is a newly-created course, is it intended to be the equivalent of an existing course? □ yes  x□ no
If so, which course? ___________

If equivalent, will the newly-created course replace the existing course? □ yes  x □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department): ___________
Note: Cross-listed courses are equivalent.

This form was last updated on 12/13/13 and replaces all others.
Is this course repeatable? □ yes  x □ no  If yes, how many total credit hours may the student earn? 

Is there an activity, lab, or other fee associated with this course? □ yes  x □ no  What is the fee? $

Note: The Senate cannot approve new fees; Business Affairs will submit any such request to the Board of Trustees. The course can still be created, but the fee will not be attached until the Board has approved it.

G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

There will be no new incurred costs due to this change.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Assessment Method and Performance Expected</th>
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<tr>
<td>What will students know and be able to do when they complete the course?</td>
<td>How will each outcome be measured? Who will be assessed, when, and how often? How well should students be able to do on the assessment?</td>
</tr>
<tr>
<td>Identify and apply common research designs used in exercise science, health, athletic training, and medicine</td>
<td>Students will score a 75% on an assignment where they select specified research methodologies from the literature and use these templates to design their own research studies.</td>
</tr>
<tr>
<td>Recognize various positive and negative characteristics of specific research designs and assess and optimize validity and reliability of variables used in athletic training, health and exercise science</td>
<td>All students will complete an assignment where they critically evaluate research methodology (design, variables, statistical methods) from manuscripts selected by the instructor. A minimum score of 75% will be expected.</td>
</tr>
<tr>
<td>Develop a focused research question and appropriate experimental hypotheses for a specific subdiscipline of interest</td>
<td>Students will complete a research proposal which includes all necessary aspects (Introduction of the Problem, Research Design, Methodology, Statistical Design, Expected Outcomes)</td>
</tr>
<tr>
<td>Perform a thorough literature search using contemporary search engines and write a research proposal with appropriate methods and statistical analysis.</td>
<td>Students will pass at a minimum of 75% an assignment where they are to select a topic, perform an in-depth review of the literature and present to the class on: What is known? Level of Certainty, and Future Directions.</td>
</tr>
</tbody>
</table>
How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

This is a 400 level course, where students are expected to build upon material introduced at the 200 and 300 level. A portion of this course is devoted to reinforcing knowledge presented in foundational courses (Math 104/250, EXSC 201, EXSC 330 or EXSC 340) Understanding statistical procedures including descriptive and inferential statistics is critical to assessment of scientific research. Interpreting research manuscripts (including statistical evidence and pertinent implications) will help students to better understand the scientific process. The goal of the class is to teach students how to apply and use the knowledge they have previously acquired. Reading, thinking and articulating the information in this course is critical to learning. This course will use a combination of face-to-face lecture sessions, article critiques, literature searches, data collection and analysis experiences, as well as cooperative group work (including short presentations).

I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes x □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

J. CHECKLIST.

X I have completed all relevant parts of the form.

X I have attached a cover letter that describes my request and lists all the documents I am submitting.

□ (For new courses only) I have attached a syllabus.

□ (For courses used in any way by other departments, including cross-listing) I have attached an acknowledgement from the relevant department.

□ (For courses intended to fulfill a Gen Ed requirement) I have submitted the proposal to the Gen Ed committee.

□ I have submitted one Signature Form that lists all of the different forms I am submitting.
Instructions:
- Please fill out one of these forms for each course you are adding, changing, deactivating, or reactivating.
- Fill out the parts of the form specified in part B. You must do this before your request can move forward!
- Remember that your changes will not be implemented until the next catalog year at the earliest.
- If you have questions, start by checking the instructions on the website. Please feel free to contact the committee chairs with any remaining questions you might have.

A. CONTACT/COURSE INFORMATION.

Name: William R. Barfield
Phone: 3-6746
Email: barfieldw@cofc.edu

Department or Program: Health & Human Performance
School: School of Education, Health & Human Performance

Subject Acronym and Course Number: EXSC 439

Catalog Year in which changes will take effect: FALL 16

B. TYPE OF REQUEST. Please check all that apply, then fill out the specified parts of the form.

☐ Add a New Course (complete parts C, D, F, G, H, I, J)
☐ Change Part of an Existing Course (complete parts C, D, E, F, G, I, J)
☐ Course Number (you must submit a course deactivation request for the old course number)
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☐ Course Description
☐ Credit/Contact Hours
☐ Restrictions (prerequisites, co-requisites, junior/senior standing, etc.)
☐ Deactivate an Existing Course (complete parts C, D, E, G, I, J)
☐ Reactivate a Previously-Deactivated Course (complete parts C, D, E, G, I, J)

C. RATIONALE AND EXPLANATION. Please describe your request and explain why you are making it.

We would like to change the credit hours from 4 to 3 for this course. In the past, the instructor would hold lab sessions in addition to the scheduled class time; however, with increased enrollment and limited faculty and facility resources this is no longer possible. All our roster faculty are currently teaching full loads, and our adjunct budget has been frozen, thus we are not able to staff the necessary lab course. Therefore, we would like to eliminate the lab component and reduce the credit hours for the class.

D. IMPACT ON EXISTING PROGRAMS AND COURSES. Please briefly describe the impact of your request on your own programs and courses as well other programs and courses. If another program requires the course, you must submit their written acknowledgement with this proposal. Also, the affected program must describe any change in the number of credit hours they require. Include a list of similar courses in other departments and explain any overlap.

There will be no impact on the EXSC degree.

This form was last updated on 12/13/13 and replaces all others.
E. EXISTING COURSE INFORMATION. If you are proposing a new course, just leave this blank. Otherwise, please fill out all fields.

Department or Program: Health & Human Performance  School: School of Education, Health & Human Performance  Subject Acronym: EXSC  Course Number: 439

Credit hours:  _4_ lecture _ x _ lab _ x _ seminar _ x _ independent study
Contact hours:  _3_ lecture _ x _ lab _ x _ seminar _ x _ independent study

Course title:  Advanced Topics in Exercise Physiology

Course description (maximum 50 words, exactly as it appears in the catalog):
This course is designed to provide students with in-depth application of advanced physiological systems, exercise biochemistry and cardio-respiratory physiology to numerous populations (pediatric, aging, obese, diabetic, expectant, sport specific athletic, etc.). The contents of this course will build on the foundation of material covered in EXSC 340 Exercise Physiology.

Restrictions (pre-requisites, co-requisites, majors only, etc.): EXSC 340 or permission of the instructor.
Cross-listing, if any:

Is this course repeatable?  □ yes  x  □ no  If yes, how many total credit hours may the student earn?  ____

F. NEW COURSE INFORMATION. If you are deactivating a course, leave this blank. Otherwise, please fill out all fields. For changed courses, use boldface for the information that is changing.

Department:  School:  Subject Acronym:  Course Number:

Credit hours:  _3_ lecture _ x _ lab _ x _ seminar _ x _ independent study
Contact hours:  _3_ lecture _ x _ lab _ x _ seminar _ x _ independent study

Course title:  Advanced Topics in Exercise Physiology

Course description (maximum 50 words, exactly as it appears in the catalog):
This course is designed to provide students with in-depth application of advanced physiological systems, exercise biochemistry and cardio-respiratory physiology to numerous populations (pediatric, aging, obese, diabetic, expectant, sport specific athletic, etc.). The contents of this course will build on the foundation of material covered in EXSC 340 Exercise Physiology.

Restrictions (pre-requisites, co-requisites, majors only, etc.): EXSC 340 or permission of the instructor.

If this is a newly-created course, is it intended to be the equivalent of an existing course?  □ yes  □ no
If so, which course?  ________________

If equivalent, will the newly-created course replace the existing course?  □ yes  □ no
Note: If yes, you must deactivate that course by submitting an additional Course Form.

Cross-listing, if any (submit approval from relevant department):  ________________
Note: Cross-listed courses are equivalent.

Is this course repeatable?  □ yes  x  □ no  If yes, how many total credit hours may the student earn?  ____

This form was last updated on 12/13/13 and replaces all others.
Is there an activity, lab, or other fee associated with this course? □ yes □ no What is the fee? $_____

Note: The Senate cannot approve new fees; Business Affairs will submit any such request to the Board of Trustees. The course can still be created, but the fee will not be attached until the Board has approved it.

G. COSTS. List all of the new costs or cost savings (including new faculty/staff requests, library, equipment, etc.) associated with your request.

Not applicable.

H. STUDENT LEARNING OUTCOMES AND ASSESSMENT.

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</tr>
<tr>
<td>Demonstrate understanding of responses to endurance and resistance training and the mechanisms behind these changes.</td>
<td>Students will pass exams (short response questions) that cover the mechanisms of adaptations that occur as a result of different exercise modalities. Passing will be defined as a minimum of 75%</td>
</tr>
<tr>
<td>Apply current knowledge of factors/predictors for weight gain/regain or weight loss pertaining to diet and exercise to healthy and diseased populations.</td>
<td>Students will successfully complete in class presentations that consist of applying current weight loss methodologies to both healthy and diseased populations. Success is defined as a minimum of 75%</td>
</tr>
<tr>
<td>Identify the underlying genetic factors and the expression on metabolic processes in the body that signal the cascades for healthy physiological response to exercise.</td>
<td>Students will successfully complete an exam covering the underlying genetic factors associated with responses to exercise. Students will complete a student presentation where they take a topic presented by the instructor and discuss how genetics influences the responses to exercise training.</td>
</tr>
<tr>
<td>Identify the risk factors associated with cardiovascular disease. Demonstrate the impact of cardiovascular disease on human performance.</td>
<td>Students will successfully complete in class exams at a minimum of 75% that require them to present cardiovascular disease risk factors and explain how they impair human performance.</td>
</tr>
</tbody>
</table>

How does this course align with the student learning outcomes articulated for the major, program, or general education? What program-level outcome or outcomes does it support? Is the content or skill introduced, reinforced, or demonstrated in this course?

This course is designed to allow students to openly research and discuss the most pressing matters facing the field of Exercise Science. Through facilitated discussions, research presentations and critical examination of the literature, students will be able to gain a deeper understanding of the mechanisms of the body’s response to exercise and to better inform reasoning for research and recreational/clinical programming. As a 400 level course, this class builds upon the knowledge acquired in previous courses (EXSC 201, EXSC 340, BIOL 201, BIOL 202) and asks students to not only identify their knowledge, but demonstrate what they have learned by applying this knowledge to both diseased populations and healthy populations.
I. PROGRAM CHANGES. Will this course be added to the existing degree requirements or list of approved electives of a major, minor, or concentration? □ yes □ no

If yes, please attach a Change Minor and/or Change Major/Program Form as appropriate.

J. CHECKLIST.

X I have completed all relevant parts of the form.

X I have attached a cover letter that describes my request and lists all the documents I am submitting.

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