COURSE CHANGE REQUEST
4609 - Status: PENDING
Last Updated: Failla, Mark L
09/20/2012

Term Information

Effective Term: Spring 2013

Course Change Information

What change is being proposed? (If more than one, what changes are being proposed?)
Changing prerequisite list.

What is the rationale for the proposed change(s)?
List needed clarification.

What are the programmatic implications of the proposed change(s)?
(e.g. program requirements to be added or removed, changes to be made in available resources, effect on other programs that use the course)?
None

Is approval of the request contingent upon the approval of other course or curricular program request? No

Is this a request to withdraw the course? No

General Information

Course Bulletin Listing/Subject Area: Human Nutrition
Fiscal Unit/Academic Org: Dept of Human Nutrition - D1254
College/Academic Group: Education & Human Ecology
Level/Career: Undergraduate
Course Number/Catalog: 4609
Course Title: Macronutrients
Transcript Abbreviation: Macronutrients
Course Description: Application of biochemistry and physiology to the regulation of carbohydrate, lipid, and protein during fed, fasted and exercise states; nutrient digestion, absorption, metabolism, excretion, requirements, and interactions.

Semester Credit Hours/Units: Fixed: 3

Offering Information

Length Of Course: 14 Week
Flexibly Scheduled Course: Never
Does any section of this course have a distance education component? No
Grading Basis: Letter Grade
Repeatable: No
Course Components: Lecture
Grade Roster Component: Lecture
Credit Available by Exam: No
Admission Condition Course: No
Off Campus: Never
Campus of Offering: Columbus

Prerequisites and Exclusions
Prerequisites/Corequisites

Prereq: 2310 (310) or AnimSci 3130 (330); and Biochem 211, 212 and Chem 231 or Biochem 4511 (511) or MolBioc 3311 and 3312 or 311 and 312; and EEOB 2520 (232) or Physio 3101 (PhysioCB 311) and 3102 (312).

Previous Value

Prereq: 2310 (310) or AnimSci 3130 (330), or Biochem 211, 212, and Chem 231, or Biochem 4511 (511), or MolBioc 3311 and 3312, or 311 and 312, or EEOB 2520 (232), or Physio 3101 (PhysioCB 311) and 3102 (312).

Exclusions

Not open to students with credit for 610.

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code 19.0504
Subsidy Level Baccalaureate Course
Intended Rank Senior

Quarters to Semesters

Quarters to Semesters Semester equivalent of a quarter course (e.g., a 5 credit hour course under quarters which becomes a 3 credit hour course under semesters)
List the number and title of current course being converted HUMN NTR 610

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors
The course is an elective (for this or other units) or is a service course for other units

Course Details

Course goals or learning objectives/outcomes

• Understand the hormonal regulation of macronutrient metabolism in the fed, fasted and exercise state
• Identify rate-limiting enzymatic steps controlling key metabolic pathways
• Appreciate the importance of maintaining blood glucose levels and the mechanisms involved in this process
• Understand how living cells convert chemical bond energy in foods into other energy forms
• Study the processes and regulatory mechanisms involved in maintaining ATP homeostasis and overall cellular energetics
• Examine the role of dietary antioxidants in protecting against reactive oxygen species
• Understand the role of diet in maintaining bone integrity
• Develop skills necessary to read, comprehend and interpret primary literature in nutritional science

Content Topic List

• Review of Enzymes
• Review of signaling
• Energy metabolism
• Carbohydrate metabolism
• Lipid metabolism
• Protein metabolism
## Attachments

## Comments

## Workflow Information

<table>
<thead>
<tr>
<th>Status</th>
<th>User(s)</th>
<th>Date/Time</th>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>Submitted</td>
<td>Smith, Anne Marie</td>
<td>09/20/2012 01:35 PM</td>
<td>Submitted for Approval</td>
</tr>
<tr>
<td>Approved</td>
<td>Failla, Mark L</td>
<td>09/20/2012 01:38 PM</td>
<td>Unit Approval</td>
</tr>
<tr>
<td>Pending Approval</td>
<td>Achterberg, Cheryl L Blount, Jackie Marie Odum, Sarah A. Zircher, Andrew Paul</td>
<td>09/20/2012 01:38 PM</td>
<td>College Approval</td>
</tr>
</tbody>
</table>