Term Information

Effective Term: Spring 2014
Previous Value: Spring 2013

Course Change Information

What change is being proposed? (If more than one, what changes are being proposed?)
Adding C- or better for all Human Nutrition prerequisite courses

What is the rationale for the proposed change(s)?
A C- is currently required in all Human Nutrition courses to graduate. This will help our students determine that they need to change majors sooner. Right now we have about a dozen students each year that do not get the required C- in our junior and senior level advanced Nutrition courses. This is too late for them to change majors, yet they have to spend an extra year in school to repeat these courses. Some need to repeat these courses several times.

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)?
We may lose students who do poorly in our introductory course 2310, as they change majors.

Is approval of the request contingent upon the approval of other course or curricular program request? Yes

Please identify the pending request and explain its relationship to the proposed changes(s) for this course (e.g. cross listed courses, new or revised program)
We are adding C- or better for all prerequisite courses for all of our undergraduate Human Nutrition courses.

Is this a request to withdraw the course? No

General Information

Course Bulletin Listing/Subject Area: Human Nutrition
Fiscal Unit/Academic Org: Department of Human Sciences - 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
Prerequisites and Exclusions

Prerequisites/Corequisites
Prereq: C- or above in 2310 (310) or AnimSci 3130 (330); and Biochem 211, 212 (completed in quarters) and Chem 231, or Biochem 4511 (511), or MolBioc 3311 and 3312, or 311 and 312; and EEOB 3120 (232), or Physio 3101 (PhysioCB 311) with 3102 (312) concurrent.

Previous Value
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).

Exclusions
Not open to students who received a C- or above in 510.

Previous Value
Not open to students with credit for 610.

Cross-Listings

Subject/CIP Code

Subject/CIP Code 51.3101
Subsidy Level Baccalaureate Course
Intended Rank Junior, Senior
Previous Value 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 HumnNtr 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

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