

# APPLICATION FOR CHANGE IN EXISTING COURSE: MAJOR and MINOR

1. Submitted by the College of Medicine Date: March 3, 2008

Department/Division offering course: Nutritional Sciences

2. What type of change is being proposed?  Major  Minor\*

\*See the description at the end of this form regarding what constitutes a minor change. Minor changes are sent directly from the dean of the college to the Chair of the Senate Council.

If the Senate Council chair deems the change not to be minor, the form will be sent to the appropriate Council for normal processing and an email notification will be sent to the contact person.

## PROPOSED CHANGES

Please complete all "Current" fields.

Fill out the "Proposed" field only for items being changed. Enter N/A if not changing.

Circle the number for each item(s) being changed. For example: (6.)

3. Current prefix & number: NS 602 Proposed prefix & number: N/A

4. Current Title Micronutrient Metabolism

Proposed Title<sup>†</sup> Integrated Nutritional Sciences II

<sup>†</sup>If title is longer than 24 characters (including spaces), write a sensible title (24 characters or less) for use on transcripts:

Integrated NutrSci II

5. Current number of credit hours: 4 Proposed number of credit hours: 3

6. Currently, is this course repeatable? YES  NO  If YES, current maximum credit hours: \_\_\_\_\_

Proposed to be repeatable? YES  NO  If YES, proposed maximum credit hours: \_\_\_\_\_

7. Current grading system:  Letter (A, B, C, etc.)  Pass/Fail

Proposed grading system:  Letter (A, B, C, etc.)  Pass/Fail

8. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

Current:

( ) CLINICAL ( ) COLLOQUIUM ( ) DISCUSSION ( ) LABORATORY (4) LECTURE

( ) INDEPEND. STUDY ( ) PRACTICUM ( ) RECITATION ( ) RESEARCH ( ) RESIDENCY

( ) SEMINAR ( ) STUDIO ( ) OTHER – Please explain: \_\_\_\_\_

Proposed:

( ) CLINICAL ( ) COLLOQUIUM ( ) DISCUSSION ( ) LABORATORY (3) LECTURE

( ) INDEPEND. STUDY ( ) PRACTICUM ( ) RECITATION ( ) RESEARCH ( ) RESIDENCY

( ) SEMINAR ( ) STUDIO ( ) OTHER – Please explain: \_\_\_\_\_

9. Requested effective date (term/year): Spring / 2009



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400G or 500. establishment of different grading criteria in the course for graduate students. (See SR 3.1.4)

20. Within the department, who should be contacted for further information on the proposed course change?

Name: Howard P. Glauert Phone: 257-7789 Email: hglauert@uky.edu

21. Signatures to report approvals:

12/19/2007

DATE of Approval by Department Faculty

*Jennifer Bueckner*  
4-28-08

DATE of Approval by College Faculty

3-10-08

\*DATE of Approval by Undergraduate

*Curriculum Committee*

\*DATE of Approval by Graduate Council

\*DATE of Approval by Health Care Colleges Council (HCCC)

\*DATE of Approval by Senate Council

\*DATE of Approval by the University Senate

Lisa Cassis  
printed name

*Lisa Cassis*  
signature

Reported by Department Chair

JAY A. PERMAN, MD  
printed name

*Jay A. Perman*  
signature

Reported by College Dean

4-29-08

C. DARRELL JENNINGS, MD  
printed name

*C. Darrell Jennings*  
signature

Reported by Undergraduate Council Chair

*Curriculum Committee*

printed name

Reported by Graduate Council Chair

signature

printed name

Reported by Health Care Colleges Council Chair

signature

Reported by Office of the Senate Council

Reported by the Office of the Senate Council

\*If applicable, as provided by the *University Senate Rules*. (<http://www.uky.edu/USC/New/RulesandRegulationsMain.htm>)

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Excerpt from *University Senate Rules*:

SR 3.3.0.G.2: **Definition.** A request may be considered a minor change if it meets one of the following criteria:

- a. change in number within the same hundred series;
- b. editorial change in the course title or description which does not imply change in content or emphasis;
- c. a change in prerequisite(s) which does not imply change in content or emphasis, or which is made necessary by the elimination or significant alteration of the prerequisite(s);
- d. a cross-listing of a course under conditions set forth in SR 3.3.0.E;
- e. correction of typographical errors.

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Nutritional Sciences M.S. and Ph.D. programs

† In order for the course change to be considered, program change form(s) for the programs above must also be submitted.

18. Is this course currently included in the University Studies Program? [ ] Yes [X] No

19. [ ] Check box if changed to 400G or 500. If changed to 400G- or 500-level, you must include a syllabus showing differentiation for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See SR 3.1.4)

20. Within the department, who should be contacted for further information on the proposed course change?

Name: Howard P. Glauert Phone: 257-7789 Email: hglauert@uky.edu

21. Signatures to report approvals:

12/19/07 DATE of Approval by Department Faculty

Karen D. Jeff, Ph.D. Reported by Department Chair (with signature)

1/28/08 DATE of Approval by College Faculty

Sharon R. Stewart Reported by College Dean (with signature)

\*DATE of Approval by Undergraduate Council

/ Reported by Undergraduate Council Chair (signature)

\*DATE of Approval by Graduate Council

/ Reported by Graduate Council Chair (signature)

\*DATE of Approval by Health Care Colleges Council (HCCC)

/ Reported by Health Care Colleges Council Chair (signature)

\*DATE of Approval by Senate Council

/ Reported by Office of the Senate Council

\*DATE of Approval by the University Senate

/ Reported by the Office of the Senate Council

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## **NS/ASC 602: Integrated Nutritional Sciences II Course Syllabus**

**Course Description:** The material covered in NS/ASC 601 consists of detailed study of the properties, metabolism, biochemical and physiological functions and interactions of vitamins and minerals, and their relationships to deficiency symptoms and toxicity.

**Course format and attendance policy:** Schedule class sessions will include lecture presentation (mainly) and/or in class presentations of case studies/relevant research articles. Attendance at class sessions is expected. You are responsible for material covered in class sessions that you miss.

You are encouraged to ask relevant questions before, during and after class sessions. For questions that cannot be adequately addressed during this time, appointments are suggested with course faculty.

**Prerequisites:** IBS 601 and PGY 206

**Required Textbook:**

- Modern Nutrition in Health and Disease, 10<sup>th</sup> Edition, edited by Shils, Shike, Ross, Caballero, and Cousins. Lippincott Williams & Wilkins, Philadelphia, 2006.

**Examinations:** There will be four (4) exams for this course (3 exams during the semester and one final exam). Each section will be worth 100 points, totaling 400 points. Some instructors may require in-class presentations or class discussion of case studies or research papers as part of evaluations. The format for the examinations will be varied and may include objective questions (e.g. multiple choice, matching, true-false), short answer questions, essay questions, take-home questions, etc. Examinations (including the final exam) will cover material since the previous examination. However, an understanding of the principles covered in this course as well as basic biochemistry will be necessary to adequately handle questions.

All exams are taken in accordance with the University honor code. You should make every effort not to miss an exam. In the event that an exam must be missed, you must contact the course coordinator before the examination.

**Course grading:** The total number of possible points in the course is 500. Final letter grades will be assigned by the Course Coordinator. The approximate grading scale to be used will be as listed below. However, curving of grades around these values will be at the discretion of the course coordinator.

A:	360 - 400
B:	320 - 359.9
C:	280 - 319.9
E:	< 280

Additional policies related to this course have been established by the University Senate for all University of Kentucky students and can be found in the booklet Student Rights and Responsibilities, which is available to all students through the Dean of Students Office. Policies are also described in the Nutritional Sciences student handbook.

## **Lecture schedule (approximate lecture hours)(corresponding Shils chapters)**

1. Bones, teeth, connective tissue
  - a. Calcium, phosphorus, vitamin D, fluorine, magnesium (5h)(9,10,11,20)
  - b. Osteoporosis--etiology and management(2h) (86)
2. Electrolytes, water, acid-base balance (3h)(8)
  - a. Hypertension/CHF--etiology and management(2h)(68,69)
  - c. Renal disease--etiology and management(2h)(94)
3. Blood and anemia
  - a. Iron, copper, folic acid, vitamin B-12, B6, vitamin K (4h)(12,14,22,28)
  - b. Nutritional aspects of hematologic diseases (2h) (92)
4. Dietary antioxidants
  - a. Oxidative stress (2h) (44)
  - b. Essential antioxidants: vitamin C, vitamin E, selenium (2h)(16,21,31)
  - c. Antioxidant phytochemicals (2h)(37)
  - d. Antioxidant defense system/immune and rheumatic disease (2h) (43,85)
  - e. Nutrition and cancer (etiology and treatment) (3h)(80,81,82)
5. Vitamins as coenzymes in CHO, lipid, and amino acid metabolism: thiamin, riboflavin, niacin, pantothenic acid, biotin, choline, vitamin B-6 (4h) (23,24,25,26,27,30)
6. Vitamin A and carotenoids (3h) (19)
7. Minerals as cofactors or metalloenzymes: zinc, manganese, chromium, molybdenum.(3h) (13,17a,17b,18)
8. Iodine (1h) (15)
9. Other compounds with health relevance: carnitine, homocysteine, cysteine, taurine, glutamine, arginine, nitric oxide (3h) (33,34,35,36)