PROPOSED CHANGES TO THE _BS NUTRITION_ DEGREE PROGRAM IN THE COLLEGE/SCHOOL OF _NATURAL SCIENCES_ SECTION IN THE UNDERGRADUATE CATALOG 2014-2016 or LAW SCHOOL CATALOG 2014-2016

Type of Change: ___ Academic Change  
  x Degree Program Change (THECB\textsuperscript{2} form required)

1. IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST CONSULT NEAL ARMSTRONG TO DETERMINE IF SACS-COC APPROVAL IS REQUIRED.
   - Is this a new degree program? Yes___ No_x__
   - Does the program offer courses that will be taught off campus? Yes___ No__
   - Will courses in this program be delivered electronically? Yes___ No__

2. EXPLAIN CHANGE TO DEGREE PROGRAM AND GIVE A DETAILED RATIONALE FOR EACH INDIVIDUAL CHANGE (include page numbers in the catalog where changes will be made):

   1. Give students in Option II the choice of taking BIO 446L or BIO 365R  
      **Rationale:** Our Nutritional Sciences (Option II) majors are currently required to take BIO 325 (Genetics), BIO 365R (Neuro) and BIO 365S (Physiology). In addition, a significant number of our pre-health professions students are also required to take BIO 446L (Human Microscopic and Gross Anatomy) as a requirement for professional school (Physician's Assistant, Physical Therapy). Advising would like to give students in Option II the choice of taking BIO 446L or BIO 365R so that pre-professional students will not have to take four BIO classes. BIO 365R is not particularly relevant for many of our majors and BIO 446L would be an appropriate alternative.

   2. Option I, #9b and #10b, Option II, #10a and #10b  
      Allow NTR 370 as a permanent alternative to NTR 371.  
      **Rationale:** NTR 370 and NTR 371 are offered in alternate semesters. Allowing NTR 370 as a permanent alternative to NTR 371 will allow students more flexibility, particularly those students who are trying to graduate on time.

   3. Option II, #9b  
      Remove the language “four-semester-hours”  
      **Rationale:** Due to changes in the course inventory not all of the sequences listed are four-semester-hours.

   4. Option II, #10b  
      Allow NTR 321 and 331 to meet any rule or requirement previously met by NTR 360.  
      **Rationale:** NTR 321 and NTR 331 have replaced NTR 360.

   5. Option III, #9C Research  
      **Three hours chosen from:** Nutrition 324 and 124L, 353, 355 or 355H, 366L, or 379H. With departmental approval, students in option III may substitute Nutrition 352.  
      **Rationale:** Clarifying the research requirements by naming the number of hours.

   6. Change the mathematics and statistics requirements to require SSC 302 and either calculus (M 408C or 408N) or the newly approved SSC 332, Statistical Models for the Health and Behavioral Sciences.  
      **Rationale:** Students need more advanced statistical training to comprehend results sections the journal articles in their field that they will be reading in most of their upper-division courses. Students doing research also require...
more advanced statistical training. Most of our students would be much better served if they took an advanced statistics course rather than calculus, as calculus is not a necessary prerequisite for any of our upper-division courses.

3. SCOPE OF PROPOSED CHANGE
   a. Does this proposal impact other colleges/schools? Yes___ No_X_
      If yes, then how?
   b. Will students in other degree programs be impacted (are the proposed changes to courses commonly taken by students in other colleges)? Yes___ No_X_
      If yes, then how?
   c. Will students from your college take courses in other colleges?

   If 3 a, b, or c was answered with yes:
   How many students do you expect to be impacted?
   Impacted schools must be contacted and their response(s) included:
      Person communicated with:
      Date of communication:
      Response:

   d. Does this proposal involve changes to the core curriculum or other basic education requirements (42-hour core, signature courses, flags)? If yes, explain:
      If yes, undergraduate studies must be informed of the proposed changes and their response included:
      Person communicated with:
      Date of communication:
      Response:

   e. Will this proposal change the number of hours required for degree completion? If yes, explain:

4. COLLEGE/SCHOOL APPROVAL PROCESS
   Department approval date: April 17, 2013
   College approval date:
   Dean approval date:

PROPOSED NEW CATALOG TEXT:

Bachelor of Science in Nutrition

Nutrition is an integrative science with the overall objective of improving the health and well-being of individuals and groups. Nutritional inquiry encompasses not only the roles of electrons, atoms, molecules, genes, cells, organs, and complex organisms in biological life processes but also the links between life science and health, behavior, education, population, culture, and economics. The Bachelor of Science in Nutrition degree program includes six options, described below.

For students pursuing careers in dietetics, courses in behavioral and clinical nutrition and food systems management provide the academic preparation required for dietetics practice. The Didactic Program in Dietetics (DPD) meets the coursework requirements that qualify graduates.
to apply to a dietetic internship, which leads to the Registered Dietitian credential. Completion of the Didactic Program in Dietetics requirements qualifies a graduate to apply for the exam to become a Dietetic Technician, Registered. To be eligible to apply for a dietetic internship or to practice as a Registered Dietetic Technician, additional coursework would be required for students earning a degree in Options II-VI. The Coordinated Program in Dietetics (CPD) includes both the coursework and the supervised practice necessary to be eligible to write the examination to become a registered dietitian. The DPD and CPD are accredited by the Commission on Accreditation of Dietetics Education of the American Dietetic Association (ADA), 120 S. Riverside Plaza, Suite 2000, Chicago IL 60606, (800) 877-1600.

The nutritional sciences option requires courses in science and research in order to prepare students for graduate study or professional school. Graduates may seek employment in private or publicly funded research programs or, upon completion of graduate study, may engage in college or university teaching or nutrition research. This option also allows students to fulfill requirements for postgraduate study in medicine, dentistry, and other health professions. Additional coursework is needed to be eligible to apply for a dietetic internship or to practice as a Dietetic Technician, Registered.

Students who select the nutrition in business option may earn a Business Foundations Certificate and seek employment in areas such as sales and customer support in the food industry.

Students who plan to follow option IV must be admitted into the Honors in Advanced Nutritional Sciences Program. Students in this option take honors courses in nutrition, research methodology, and writing. In addition, students are encouraged to take honors courses in disciplines outside of nutrition, such as biology, chemistry, and mathematics. Students consult with the departmental honors adviser to develop an individualized and challenging program of study that meets their goals and interests.

Students who plan to follow option V must be admitted to the Dean’s Scholars Honors Program. In addition to taking a core of research, writing, and seminar courses in the College of Natural Sciences, students in this option consult with the departmental honors adviser to develop a coherent individual program of rigorous and challenging courses from across the University. Students in the international nutrition option gain firsthand knowledge of nutrition issues in other countries through a study abroad experience. Students combine the study of nutrition with a broad range of courses to prepare for experience studying and practicing nutrition in another culture.

Prescribed Work Common to All Options

All students pursuing an undergraduate degree must complete the University’s Core Curriculum. The core includes courses in language, literature, social sciences, natural sciences, and fine arts. In addition, students seeking the Bachelor of Science in Nutrition must complete the following degree-level requirements. In some cases, courses that fulfill degree-level requirements also meet the requirements of the core.

1. Two courses with a writing flag. One of these courses must be upper-division. Courses with a writing flag are identified in the Course Schedule available at
http://registrar.utexas.edu/schedules. They may be used simultaneously to fulfill other requirements, unless otherwise specified.

2. At least thirty-six semester hours of upper-division coursework, of which at least twenty-four must be in nutrition. At least twenty-one semester hours of upper-division coursework, including eighteen semester hours in nutrition, must be completed in residence at the University.

Additional Prescribed Work for Each Option

Option I: Dietetics

Students in dietetics may select either the Didactic Program in Dietetics (DPD) or the Coordinated Program in Dietetics (CPD). Students who complete the DPD with at least four upper-division nutrition courses completed in residence will receive a Verification Statement that qualifies them to apply for an accredited dietetic internship. DPD graduates who complete a dietetic internship may become active members of the American Dietetic Association (ADA) and are eligible to write the examination to become a registered dietitian. Students interested in the Coordinated Program in Dietetics must apply for admission after completing sixty semester hours of prerequisite coursework. Upon completing the CPD, which includes approximately twelve hundred hours of supervised practice, graduates immediately qualify for active membership in the ADA and to write the examination to become a registered dietitian. Students who are admitted to the CPD should consult the faculty adviser each semester regarding order and choice of work. During the fourth year, the following courses must be taken in the indicated term: fall semester: Nutrition 245C; spring semester: Nutrition 372C, 372F, 373S; summer session: Nutrition 374C and 374P. Because these courses are taught only once a year, a student who does not take them at the indicated time may be unable to complete the program.

3. At least three semester hours chosen from Psychology 301, Sociology 302, Anthropology 302, Economics 304K, 304L, and Human Development and Family Sciences 313 or 313H and 113L.

4. One of the following calculus courses: Mathematics 408C, 408N, or Statistics and Scientific Computation 332 the equivalent.

5. Three semester hours of statistics chosen from Statistics and Scientific Computation 302, 303, 304, 305, 306, and 325H.

6. Chemistry 301 or 301H, 302 or 302H, 204, 320M, and either 369 or both 339K and 339L.

7. Biology 311C or 315H, 325 or 325H, and 365S.

8. Accounting 310F or 311.

9. The following core nutrition coursework:
   a. Nutrition 312 or 312H, 112L or 312R, 326, and 126L. Students who complete Biology 315H and 325H are exempt from Nutrition 326 and 126L. The student must complete each course with a grade of at least C- before progressing to other upper-division nutrition courses.
   b. Nutrition 307, 107L, 338W or 338H, 342, and 365 (Topic 1: Vitamins and Minerals; Topic 2: Nutrition and Genes; or Topic 3: Epidemiological and
Statistical Methods in Nutrition). Students in the CPD must complete Nutrition 370 or 371 instead of 365.

10. Coursework in nutrition, consisting of the following:
   a. Behavioral and clinical nutrition:
   b. Food systems management: Nutrition 334, 234L, and 355M.
   c. Research:
      i. CPD: Nutrition 373S.
      ii. DPD: One of the following: Nutrition 324 and 124L, 353, 355 or 355H, 366L, 379H, Statistics and Scientific Computation 318, 321, 325H, or 352. With the approval of the faculty undergraduate adviser, DPD students may count Nutrition 352 toward this requirement. Statistics and Scientific Computation 325H may not be counted toward both requirement 5 and requirement 10cii.
   d. Professional development:
      i. CPD: Nutrition 245C.
      ii. DPD: Nutrition 162.

11. Students in the CPD must complete an additional fifteen semester hours of supervised practice: Nutrition 345M, 372C, 372F, 374C, and 374P.

12. Enough additional coursework to make a total of 126 semester hours.

Option II: Nutritional Sciences

3. At least six semester hours chosen from Psychology 301, Sociology 302, Anthropology 302, Economics 304K, 304L, and Human Development and Family Sciences 313 or 313H, and 113L.
4. One of the following calculus courses: Mathematics 408C, 408N, or Statistics and Scientific Computation 332 or the equivalent.
5. Three semester hours of statistics chosen from Statistics and Scientific Computation 302, 303, 304, 305, 306, and 325H.
6. Chemistry 301 or 301H, 302 or 302H, 204, 220C, 320M, 320N, and either 369 or both 339K and 339L.
7. Either Biology 311C, 311D, and 325 or Biology 315H and 325H; and Biology 365R or Biology 446L, and 365S.
8. One of the following four-semester-hour sequences: Physics 301 and 101L, 302K and 102M, 303K and 103M, or 317K and 117M.
9. The following core nutrition coursework:
   a. Nutrition 312 or 312H, 112L or 312R, 326, and 126L. Students who complete Biology 315H and 325H are exempt from Nutrition 326 and 126L. The student must complete each course with a grade of at least C- before progressing to other upper-division nutrition courses.
   b. One of the following four-semester-hour sequences: Nutrition 307 and 107L; Biology 326M and 226L; 326R and 226L; Chemistry 455.

10. Twelve additional semester hours of nutrition, including the following:
   a. Nutritional sciences: Nutrition 365 or 370. The same topic of Nutrition 365 may not be counted both toward this requirement and toward requirement 9c.

11. Enough additional coursework to make a total of 126 semester hours.

Option III: Nutrition in Business

3. At least six semester hours chosen from Psychology 301, Sociology 302, Anthropology 302, Economics 304K, 304L, and Human Development and Family Sciences 313 or 313H, and 113L.
4. One of the following calculus courses: Mathematics 408C, 408N, or Statistics and Scientific Computation 332 the equivalent.
5. Three semester hours of statistics chosen from Statistics and Scientific Computation 302, 303, 304, 305, 306, and 325H.
6. Chemistry 301 or 301H, 302 or 302H, 204, 320M, and either 369 or both 339K and 339L.
7. Biology 311C or 315H, 325 or 325H, and 365S.
8. The following core nutrition coursework:
   a. Nutrition 312 or 312H, 112L or 312R, 326, and 126L. Students who complete Biology 315H and 325H are exempt from Nutrition 326 and 126L. The student must complete each course with a grade of at least C- before progressing to other upper-division nutrition courses.
   b. One of the following four-semester-hour sequences: Nutrition 307 and 107L; Biology 326M and 226L; 326R and 226L.
9. At least seventeen additional semester hours of nutrition, including the following:
   b. Food systems management: Nutrition 334 and 234L.
   c. Research: Three hours chosen from: Nutrition 324 and 124L, 353, 355 or 355H, 366L, or 379H. With departmental approval, students in option III may substitute Nutrition 352.
11. Enough additional coursework to make a total of 126 semester hours.
Option IV: Honors in Advanced Nutritional Sciences

3. At least three semester hours chosen from Psychology 301, Sociology 302, Anthropology 302, Economics 304K, 304L, and Human Development and Family Sciences 313 or 313H and 113L.

4. One of the following calculus courses: Mathematics 408C, 408N, Mathematics 408D-AP-H, or Statistics and Scientific Computation 332 the equivalent.

5. Three semester hours of statistics chosen from Statistics and Scientific Computation 302, 303, 304, 305, 306, and 325H.

6. Chemistry 301 or 301H, 302 or 302H, 204, 320M, 320N, 220C, and either 369 or both 339K and 339L.

7. Biology 311C, 311D, and 325 or Biology 315H and 325H; and Biology 365S.

8. Nutrition 312H, 312R, 338H, 342, 365 (Topic 1: Vitamins and Minerals), and fourteen additional semester hours of nutrition or related coursework approved by the departmental honors adviser.

9. A section of Undergraduate Studies 302 or 303 that is approved by the departmental honors adviser.

10. Nutrition 355H and 379H.

11. Ten semester hours of additional coursework approved by the departmental honors adviser.

12. Enough additional coursework to make a total of 120 semester hours.

Option V: Nutrition Honors

3. Breadth requirement: A calculus course and a statistics course, one of which must be a designated honors course; Biology 315H and 325H; Chemistry 301H and 302H; and three additional hours of honors-designated or approved coursework in biology, chemistry, computer science, mathematics, statistics and scientific computation, or physics. Credit earned by examination may not be counted toward this requirement.

4. At least three semester hours chosen from Psychology 301, Sociology 302, Anthropology 302, Economics 304K, 304L, and Human Development and Family Sciences 313 or 313H and 113L.

5. Chemistry 204, 320M, and 320N, and either 369 or both 339K and 339L.

6. Biology 365R and 365S.


8. A section of Undergraduate Studies 302 or 303 that is approved by the departmental honors adviser.

9. A section of Rhetoric and Writing 309S that is restricted to Dean’s Scholars.

10. Nutrition 355H and 379H.

11. Ten semester hours of additional coursework in nutrition or related area approved by the departmental honors adviser.
12. Six semester hours of coursework in the College of Liberal Arts or the College of Fine Arts.
13. Enough additional coursework to make a total of 120 semester hours.

**Option VI: International Nutrition**

Students in this option must participate for one semester or summer session in a study abroad program in nutrition offered by the University. Students must submit a study abroad application. During the study abroad experience, students complete Nutrition 353, Field Experience in International Nutrition. Additional coursework in nutrition or in the language, culture, or history of the country may be available during the international study experience. All study abroad programs in nutrition must be approved in advance by the international nutrition faculty adviser. A list of other study abroad opportunities in nutrition is maintained in the main office of the School of Human Ecology.

3. Economics 304K or 304L, and at least three semester hours chosen from Psychology 301, Sociology 302, and Anthropology 302.
4. Six semester hours chosen from the following: Geography 339K, 357, Mexican American Studies 307, 318, Sociology 335, 354K.
5. Second-semester proficiency in a single foreign language.
6. One of the following calculus courses: Mathematics 408C, 408N, or Statistics and Scientific Computation 332 or the equivalent.
8. Chemistry 301 or 301H, 302 or 302H, 204, 320M, and 369.
9. Biology 311C or 315H, 325 or 325H, and 365S.
10. The following core nutrition coursework:
    a. Nutrition 312 or 312H, 112L or 312R, 326, and 126L. Students who complete Biology 315H and 325H are exempt from Nutrition 326 and 126L. The student must complete each course with a grade of at least C- before progressing to other upper-division nutrition courses.
    b. One of the following four-semester-hour sequences: Nutrition 307 and 107L; Biology 326M and 226L; 326R and 226L.
    c. Nutrition 338W or 338H, and 342.
12. At least nine semester hours, three of which must be upper-division, chosen from one of the following areas:
13. Enough additional coursework to make a total of 126 semester hours.

Special Requirements

Students in all options must fulfill both the University's General Requirements for graduation and the college requirements. They must also earn a grade of at least C- in each mathematics and science course required for the degree, and a grade point average in these courses of at least 2.00. More information about grades and the grade point average is given in General Information available at http://registrar.utexas.edu/catalogs/.

To graduate under option IV, students must remain in good standing with an overall grade point average of at least 3.30 and an overall grade point average of 3.50 in all nutritional sciences courses. In addition, student research conducted in courses described in requirement 10 must be presented in an approved public forum, such as the college's annual Undergraduate Research Forum. Students who fail to maintain the required grade point average may be subject to dismissal from the program. Under special circumstances and at the discretion of the nutritional sciences honors adviser, a student may be allowed to continue under academic review.

To graduate under option V, students must remain in good standing in the Dean’s Scholars Honors Program, must earn grades of at least A- in the departmental research and thesis courses described in requirement 10, and must present their research in an approved public forum, such as the college’s annual Undergraduate Research Forum.

Note:
Nutritional Sciences courses with numbers ending in H are intended for students in option IV, Honors in Advanced Nutritional Sciences and in option V, Nutrition Honors. Students outside these options may enroll in these courses with the consent of the nutritional sciences honors adviser.

To be eligible to apply for a dietetic internship or to practice as a Registered Dietetic Technician, additional coursework would be required for students earning a degree in options II-VI.

1 See http://www.utexas.edu/provost/planning/cat_change/UnderGrad.html for detailed explanations.
2 Texas Higher Education Coordinating Board.
3 The proposed text should be based on the text of the current catalog available at http://www.utexas.edu/faculty/council/pages/catalog_chgs/catcopy.html. Strike through and replace (with underlines) only the specific language to be changed. Do NOT use “track changes”! For questions on completing this section, please contact Anita Ahmadi, fc@austin.utexas.edu, 471-5936 or Brenda Schumann, brenda.schumann@austin.utexas.edu, 475-7654.