Student Learning Assessment
Workspace

Human Nutrition, Bachelor

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General Information (Student Learning Assessment Workspace)

Degree:  Human Nutrition, Bachelor
Department:  Dietetics & Human Nutrition
College:  Agriculture, Food and Environment
CIP:  19.0504
Major Begin Date:  05/08/2004
Here you can view the department homepage.
Here you can view the Mission Statement for the College of Agriculture, Food and Environment.
Standing Requirements

**Mission Statement**

The mission of the Department of Dietetics and Human Nutrition in contributing excellence in learning, discovery, and engagement is to:

- Promote healthy lifestyles through wise, nutritionally-sound, food choices and regular physical activity;
- Enhance the well-being of people through meaningful nutrition education, research, and service experiences; and
- Expand economic opportunity by generating and sharing knowledge of human nutrition, dietetics, and food systems.

**Student Learning Outcomes**

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Mapping</th>
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<tbody>
<tr>
<td>Knowledge Acquisition</td>
<td>No Mapping</td>
</tr>
<tr>
<td>Students will identify nutrients and non-nutrients essential to health and apply this knowledge to promote wellness and chronic disease prevention.</td>
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<tr>
<td>Communication</td>
<td>No Mapping</td>
</tr>
<tr>
<td>Students will demonstrate effective oral and written communication skills, particularly in scientific writing and educational seminar program development and implementation.</td>
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Assessment Plan

• i. Introduction

The B.S. in Human Nutrition program will be assessed based on two specific learning outcomes. Each learning outcome will be evaluated bi-annually with data collected by course instructors and the assessment coordinators. The assessment coordinators will then aggregate and analyze the data, which will be shared with DHN faculty for discussion and development of improvement action plans.

• ii. Assessment Oversight, Resources

Dr. Larry Grabau, Associate Dean for Instruction, serves as the College of Agriculture, Food, and Environment learning outcomes assessment coordinator.

Assessment coordinators for the B.S. in Human Nutrition program include Dr. Tammy Stephenson, Director of Undergraduate Studies, and Dr. Sandra Bastin, Department Chair, in the Department of Dietetics and Human Nutrition

Dr. Tammy Stephenson  Tammy.Stephenson@uky.edu
Dr. Sandra Bastin  Sandra.Bastin@uky.edu

• iii. Assessment Methods and Measures

SLO: Students will identify nutrients and non-nutrients essential to health and apply this knowledge to promote wellness and chronic disease prevention.

Assessment Methods:

1. Pre- and Post-Tests: The pre- and post-test questions will be written by the assessment coordinators, and reviewed by DHN faculty, to match the learning outcome. The pre-test will be administered the first week of class in DHN 212: Introductory Nutrition and the post-test will be administered the last week of class in DHN 510: Advanced Nutrition.

2. DHN 403 Community Nutrition: As part of the course requirements, students complete an intervention plan targeting specific populations (e.g. children, elderly, low-income). The intervention plan requires students to apply knowledge of nutrients and non-nutrients to promoting health, wellness, and chronic disease prevention in this population. A detailed rubric, developed by the course instructor, is used for the evaluation of this project and will be utilized for assessment of the learning outcome. The rubric will be modified to include specific components to assess this learning outcome.

3. DHN 510 Advanced Nutrition: Students complete a 5-page evidence-based literature review on the relationship between a specific nutrient or non-nutrient and some aspect of health (e.g. physical activity performance, disease prevention, mental health, wellness). A detailed rubric, developed by the course instructor, is used for the evaluation of this project and will be utilized for assessment of the learning outcome. The project instructions and rubric have been written by the course instructor to match the learning outcome.

A second assessment in DHN 510 will be the evaluation of a short answer question written by the course instructor to match the learning outcome. The question will require students to identify nutrients and non-nutrients essential to health and chronic disease prevention on one of the regularly scheduled course exams. This question will change for each assessment cycle, but will always be designed to match the learning outcome. One question will be assessed each assessment cycle.

SLO: Students will demonstrate effective oral and written communication skills, particularly in scientific writing and educational seminar program development and implementation.

Assessment Methods:

1. Pre- and Post-Tests: The pre- and post-test questions will be written by the assessment coordinators, and reviewed by DHN faculty, to match the learning outcome. The pre-test will be administered the first week of class in DHN 212: Introductory Nutrition and the post-test will be administered the last week of class in DHN 510: Advanced Nutrition.

2. DHN 408G Seminar in Dietetics and Human Nutrition: As part of the course requirements, students complete a 15-20 minute professional research seminar. A detailed rubric, developed by the course instructor, is used for the evaluation of this seminar and will be utilized for assessment of the learning outcome. The rubric includes specific components tailored to assessing this specific learning outcome.

3. DHN 475 Research in Nutrition –Applications: As part of the course requirements, students complete an independent research project on any topic related to nutrition. Students develop a 10-page professional research brief using their own research study, and including a detailed literature review using professional, peer-reviewed sources. A detailed rubric, developed by the course instructor, is used for the evaluation of this paper and will be utilized for assessment of the learning outcome. The rubric includes specific components tailored to assessing this specific learning outcome.
iv. Data Collection and Review

Data will be collected on a rotating cycle for each of the two learning outcomes.

LO 1 will be evaluated biannually (2015-2016, 2017-2018, 2019-2020)
LO 2 will be evaluated biannually (2016-2017, 2018-2019, 2020-2021)

The assessment coordinators will meet with individual instructors ahead of time to discuss the collection of assessment data. The data will then be collected by the individual course instructors during the course of the semester. Identifying information will be removed from the data, which will then be shared with the assessment coordinators. Assessment coordinators will organize and evaluate the data before sharing with DHN faculty for discussion.

Benchmark for Learning Outcomes:

LO 1: Students will identify nutrients and non-nutrients essential to health and apply this knowledge to promote wellness and chronic disease prevention.

1. Pre- and Post-Test (completed in DHN 212 and DHN 510)
   Knowledge of nutrients and non-nutrients will be at least 25% higher as evaluated on the post-test completed in DHN 510 as compared to the pre-test completed in DHN 212.

2. DHN 403: Community Nutrition
   80% of students will be rated as excellent or very good in their ability to develop a health-promoting intervention based on the nutrient needs of a specific community.

3. DHN 510: Advanced Nutrition
   80% of students will be rated as excellent or very good on the "Content" area of their literature review
   80% of students will be rated as excellent or very good in their ability to explain the mechanisms responsible for the prevention or promotion of a disease in response to a particular nutrient.

LO 2: Students will demonstrate effective oral and written communication skills, particularly in scientific writing and educational seminar program development and implementation.

1. Pre- and Post-Tests (completed in DHN 212 and DHN 510)
   Confidence in oral and written communication skills will be at least 25% higher as evaluated on the post-test completed in DHN 510 as compared to the pre-test completed in DHN 212.

2. DHN 408G: Seminar in Dietetics and Human Nutrition
   80% of students will be rated as excellent or very good in their ability to clearly and professionally develop and deliver a research presentation on a topic of their choice

3. DHN 475: Research in Nutrition - Applications
   80% of students will be rated as excellent or very good in their ability to develop a 10-page research that is organized, cohesive, well-written, and properly cites at least five appropriate professional resources

v. Assessment Cycle and Data Analysis

Data will be collated and analyzed by the assessment coordinators and shared with DHN faculty at the annual August faculty retreat. Assessment results will be evaluated in comparison to benchmarks, which have been established based on previous data that has been collected from program assessment over the past five years. DHN faculty will review assessment data and discuss if programmatic improvements are necessary. In such cases, enhancements to individual courses, as well as course offerings, may be recommended to address deficits in core knowledge.

The program assessment report will be submitted online by the assessment coordinators annually by the October 31st deadline. Program assessment will be utilized as part of the departmental strategic planning process and program review.
vi. Graduating Composition and Communication Requirement (GCCR)

vii. Teaching Effectiveness

Teaching effectiveness will be evaluated through standard University TCEs and through annual peer evaluation. All teaching faculty will have an in-class evaluation completed by the Department Chair or faculty appointed by the Chair. The peer teaching evaluation will be shared with the faculty and there will be discussion of strengths and areas for improvement related to teaching effectiveness.

viii. Post-Graduate Success

Human nutrition students will complete an online survey, administered every April to students in DHN 475. Survey data to be collected includes: personal email address (for future contact), plans following graduation, and recommendations for program improvement. Such survey data has been collected from seniors in Human Nutrition since 2012. Data will be collated by the DHN Program Assistant.

One-year post-graduation a follow-up survey request will be emailed to all human nutrition graduates. Students will be surveyed in regards to their employment or professional/graduate school status. Data will be collated by the DHN Program Assistant.

ix. Appendices

Curriculum Map

Active Curriculum Maps

Human Nutrition, Bachelor
Alignment Set: Human Nutrition, Bachelor Outcome Set
Created: 03/03/2017 10:59:23 am EDT
Last Modified: 03/13/2017 9:35:45 am EDT
<table>
<thead>
<tr>
<th>Courses and Learning Activities</th>
<th>Knowledge Acquisition</th>
<th>Communication</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHN 212 Introductory Nutrition</td>
<td>Introduced</td>
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</tr>
<tr>
<td>DHN 302 Principles of Food Preparation</td>
<td>Reinforced</td>
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<tr>
<td>DHN 304 Experimental Foods</td>
<td>Reinforced</td>
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<tr>
<td>DHN 311 Nutritional Biochemistry</td>
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<tr>
<td>DHN 312 Nutrition and Wellness in the Life Cycle</td>
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<tr>
<td>DHN 315 Nutrition Issues in Physical Activity</td>
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<tr>
<td>DHN 403 Community Nutrition and Wellness</td>
<td>Applied</td>
<td>Reinforced</td>
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<tr>
<td>DHN 408G Seminar in Food and Nutrition</td>
<td>Applied</td>
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<tr>
<td>DHN 474 Research in Nutrition: Theory</td>
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<tr>
<td>DHN 475 Research in Nutrition: Application</td>
<td>Applied</td>
<td>Reinforced</td>
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<tr>
<td>DHN 510 Advanced Nutrition</td>
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<td>SDNA Clubs</td>
<td>Applied</td>
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</tbody>
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**Legend:**
- **I**: Introduced
- **R**: Reinforced
- **A**: Applied
- **X**: General Alignment