

**Department:**

Biology

**Course Description:**

This course is a study of the fundamentals of human nutrition and the relationship of nutrition to health, well-being, and personal food choices. The course will examine human growth and development, scientific research in nutrition, and how nutrition affects human disease. The course will also include the application of basic nutritional science to the requirements of life cycle stages, activity and exercise, and various states of health. This course is appropriate for Biology, Nursing, and Pre-Med students.

**Course Competencies:**

The learning outcomes and competencies detailed in this syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups for this course as approved by the Kansas Board of Regents. (Kansas Regents Shared Number Course and Title: **KRSN Course HSC1010 Nutrition.**)

Upon completion of the course, the student should be able to:

1. Identify the six (6) classes of nutrients and their sources.
2. Demonstrate an understanding of the process of digestion, absorption, and metabolism of nutrients.
3. Employ available resources to make sound nutritional choices.
4. Explain energy balance and weight control as it relates to nutrition and wellness.
5. Describe nutritional needs throughout the lifespan.
6. Recognize global food safety, security, and sustainability issues.
7. Recognize the interrelationship of food and nutrition with a vast range of factors influencing individual and population nutritional behaviors.
8. Apply basic fundamentals of nutrition to identify both positive nutritional status and malnutrition.
9. Identify and explain terms relevant to the quality of an individual's nutritional state, including energy balance, nutrition assessment, malnutrition, under-nutrition, hunger, and over-nutrition.
10. Assess personal diets and make appropriate healthy modifications.
11. Identify and summarize basic physiological functions and explain the need for appropriate nutrients.
12. Identify excellent food sources for selected nutrients.
13. Recognize and use valid, reliable sources for nutrition information.
14. Use information and knowledge gained in this course to make informed, healthful lifestyle changes.

**Course Content:**

- A. What is nutrition?
- B. Tools for Healthy Eating
- C. The Basics of Digestion
- D. Carbohydrates: Sugar, Starch, and Fiber

- E. Fats, Oils, and Other Lipids
- F. Proteins and Amino Acids
- G. Vitamins
- H. Minerals and Water
- I. Weight Management and Energy Balance
- J. Nutrition and Fitness
- K. Consumerism: From Farm to Table
- L. Food Safety and Technology
- M. Life Cycle Nutrition: Pregnancy through Infancy
- N. Life Cycle Nutrition: Toddlers through the Later Years
- O. Hunger at Home and Abroad

## Learning Assessments:

Evaluation methods may include quizzes, written tests, research projects, computer exercises, presentations, group discussion questions, summaries, article reviews and reactions relating to various learning experiences.

## Instructional Materials:

Textbook: Blake, J. (2012). *Nutrition & You* (3rd ed.). Hoboken, NJ: Pearson.  
ISBN-13: 9780321910400

### **Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition**

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the “Disabilities Self-Identification Form” on our [Disability Services website](#).

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

### **A Note on Harassment, Discrimination and Sexual Misconduct**

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an [online report](#) about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our [Equity Grievance Policy](#).