Virginia Western Community College HRI 122 Applied Nutrition for Food Service Laboratory

Prerequisites

Corequisite: HRI 119

Course Description

Includes application of skill sets for understanding, reviewing, revising, scaling, and preparing existing recipes and the creation of new recipes with a focus on healthy cooking techniques, alternative products, and critical thinking. Laboratory 3 hours per week.

Semester Credits: 1 Lecture Hours: 1 Lab/Clinical/Internship Hours: 3

Required Materials

Textbook:

Techniques of Healthy Cooking 4th edition by The Culinary Institute of America ISBN#: 978047063543-8

Other Required Materials:

Notebook, pens, calculator, 2 (preferred) full uniforms, consisting of: chef jacket with school logo and name embroidered, black & white chef check pants, neckerchief, slide, white apron, white Baker's Cap, black closed-heel, closed toe, non-skid shoes.

Course Outcomes

At the completion of this course, the student should be able to:

- 1. Understand the elements of food, such as protein, fat and carbohydrates
- 2. Understand the latest food guide pyramid and utilize it within the food service industry.
- 3. Understand the cultural aspects/restrictions of food.
- 4. Understand healthy menus and healthy cooking
- 5. Understand the relationship between nutrition and disease
- 6. Have working knowledge of weight management as it relates to nutrition.
- 7. Understand and exemplify professionalism
- 8. Identify governmental nutritional guidelines
- 9. Identify the principles of cooking and storage techniques for maximum retention of nutrients.
- 10. Demonstrate a positive work ethic
- **11.** Demonstrate conflict resolution skills
- 12. Demonstrate integrity
- **13.** Demonstrate team work skills

- **14.** Demonstrate diversity awareness
- 15. Demonstrate effective speaking and listening skills
- **16.** Demonstrate critical thinking and problem solving Skills.
- 17. Demonstrate healthy behaviors and safety skills
- 18. Demonstrate time, task and resource management skills

Topical Description

Chapter 1 Introduction to Nutrition

- Factors influencing food selection
- Basic nutrition concepts
- Characteristics of a nutritious diet
- Nutrient recommendations

Chapter 2 Using Dietary Recommendations, Food Guides, and Food Labels to Plan Menus

- Dietary guidelines and food guides
- Food labels
- Portion size comparisons

Chapter 3 Carbohydrates

- Functions of Carbohydrates
- Simple Carbohydrates (sugars)
- Complex carbohydrates (starches and fiber)
- Digestion, Absorption, and metabolism of carbohydrates
- Dietary recommendations for carbohydrates

Chapter 4 Lipids, Fats and Oils

- Functions of Lipids
- Triglycerides
- Essential fatty acids
- Cholesterol
- Lipids and health
- Dietary recommendations

Chapter 5 Protein

- Structure of protein
- Functions of protein

- Digestion, absorption, and metabolism
- Protein in food
- Health effects of protein
- Dietary recommendations for protein

Chapter 6 Vitamins

- Characteristics of vitamins
- Fat soluble vitamins
- Water soluble vitamins

Chapter 7 Water and Minerals

- Water
- Major Minerals
- Trace minerals

Chapter 8 Balanced Cooking Methods and Techniques

- Flavor
- Balanced methods and techniques for a healthy eating style

Chapter 9 Recipe Makeovers

- Appetizers
- Entrees
- Sauces and Dressings
- Desserts

Chapter 10 Balanced Menus

- Recipe modification
- Appetizers
- Soups
- Salads & dressings
- Entrees
- Side dishes
- Balanced Sauces
- Desserts
- Morning and afternoon breaks
- Presentation
- Recipes

Chapter 11 Handling Customer Special Nutrition Requests

- Low kilocalorie
- Low fat and cholesterol
- Low sugar
- Low sodium
- Food allergies
- Gluten free
- Low lactose
- Vegetarian and Vegan

Chapter 12 Weight Management and Exercise

- "How much should I weigh?"
- How Obesity effects your health
- How to lose weight

Chapter 13 Nutrition for all ages

- Nutrition and menu planning for children
- Nutrition and menu planning for adolescents
- Nutrition over the lifespan: older adults
- Eating disorders
- Nutrition for the athlete

Notes to Instructors

• There is a project assigned in this class.