STANDARDIZED COURSE OUTLINE

SECTION I

SUBJECT AREA AND COURSE NUMBER: Biology 150

COURSE TITLE: Fundamentals of Nutrition

COURSE CATALOG DESCRIPTION: An introductory course on the science of nutrition: the role and sources of carbohydrates, lipids, proteins, vitamins, and minerals. Nutritional requirements, nutritional problems and the analysis of adequate diets for various populations are included.

LECTURE HOURS PER WEEK: 3

CREDIT HOURS: 3

PREREQUISITE(S):): a) Level II score on writing placement test or successful completion of Eng 001, and b) Level II score on reading placement test or successful completion of Eng 002. Alternative prerequisite: Grade of B- or better in Eng 118.

SECTION II

A. SCOPE: The objective of Bio 150 (Nutrition) is to enable students to understand 1) digestion, absorption, metabolism and function of nutrients, including proteins, carbohydrates, lipids, vitamins and minerals, 2) energy production and energy balance in various populations and age groups, 3) and develop a framework for assessing nutritional information.

B. REQUIRED WORK: To be determined by instructor.

C. ATTENDANCE AND PARTICIPATION: Regular attendance and class participation are expected. (Specific instructor policies should be listed in the class syllabus.)

D. METHODS OF INSTRUCTION: The methods of instruction are determined by each instructor and may include but are not limited to lecture, lecture/discussion, small group, collaborative learning, experimental/exploration, distance learning, student presentations, and use of technologies such as audio-visual materials computers, and calculators.

E. OBJECTIVES, OUTCOMES, and ASSESSMENT

The following objectives and outcomes represent the department's core requirements for student achievement:

LEARNING OBJECTIVES	LEARNING OUTCOMES	ASSESSMENT METHODS
To demonstrate an	Student will:	As measured by:
understanding of:		
Energy-Yielding Nutrients .	Describe and compare the	Reports
Carbohydrates, Proteins, and	structure, function and	Exams
Lipids	regulation of carbohydrates,	Computer Dietary Analysis
	lipids and proteins.	Presentations
	Describe the physiology of	
	digestion and absorption of the	
	energy-yielding nutrients.	
Metabolism. Energy	Describe the key steps in	
Production and Energy	metabolism of carbohydrates,	
Balance	proteins, lipids and alcohol	
	Analyze energy production	
	and energy balance in various	
	populations, including infants,	
	adolescents, adults, elderly,	
	athletes, and pregnant and	
	nursing mothers .	
	Analyze and explain the	
	causes and treatments of	
	various eating disorders.	
Vitamins and Minerals. Fat	Describe the function and	
and water soluble vitamins,	dietary sources of vitamins,	
major and trace minerals.	minerals and water	
Nutrition Basics. Nutrient	Compare different diets and	
requirements, food labeling,	analyze the fulfillment of	
and health claims on food.	nutrient requirements.	
	Develop a framework for	
	assessing nutritional	
	information.	

F. TEXT(S) AND MATERIALS: <u>Perspectives in Nutrition</u>, by Gordon M. Wardlaw, WCB/McGraw-Hill Publishing.

G. INFORMATION TECHNOLOGY: Computers and CD-rom for dietary analysis.