COURSE DETAIL

FOOD BIOCHEMISTRY
Country Korea, South
Host Institution Yonsei University
Program(s) Yonsei University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biochemistry
UCEAP Course Number 104
UCEAP Course Suffix
UCEAP Official Title FOOD BIOCHEMISTRY
UCEAP Transcript Title FOOD BIOCHEMISTRY
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

Food biochemistry is concerned with the principles of biochemistry which underlie the structure and behavior of substance and matter in food. This course provides an overview of Food biochemistry leaving out the complex microbial derivations which usually accompany the one-semester course. The course covers updated information on fundamental topics such as sugars, polysaccharide, lipids, proteins, colors, flavors, preservatives, enzymes, functional foods, and dietary supplements. Each of these areas is directly related to the current effort of commercializing food products and adding new value to them. The successful application of this knowledge is ultimately essential to the development and growth of major aspects of food science, including production, processing, preservation, distribution, safety, and engineering and technology.

As a result of this course students obtain in-depth knowledge of the major macro-nutrients and micro-nutrients in food. Students also gain deeper insights into consumer perspectives and preferences regarding issues such as genetically modified foods, nano-materials in foods, functional foods and nutraceuticals, and food safety. Assessment: Midterm exam (30%), final exam (30%), presentation (20%), participation (20%).

Please note: This course is non-calculus-based survey of food biochemistry designed for B.S. degree students with a major in Chemistry, Nutrition, Biology, Biochemistry, Microbiology, pre-professional studies, or students in general. A fair amount of chemical and biochemical background is required to understand food biochemistry.

Language(s) of Instruction
English

Host Institution Course Number
BTE3103

Host Institution Course Title
FOOD BIOCHEMISTRY

Host Institution Course Details
Host Institution Campus
Host Institution Faculty
Host Institution Degree
Host Institution Department Biotechnology
Course Last Reviewed 2025-2026

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