

Health & Wellness College
School of Bio-Health Convergence
at Sungshin Women's University





Department Introduction

- ▶ The Department of Biohealth Convergence consists of two majors: Food and Nutrition Sciences and Biohealth Services.
- ▶ The Food and Nutrition Sciences major focuses on developing expertise and creativity in leading healthy dietary practices, contributing to national health promotion. The curriculum emphasizes advancing academic research in food and nutrition while enhancing practical skills in dietary habits.
- ▶ The Biohealth Services major, building on the foundation of food and nutrition studies, aims to cultivate advanced professionals in diverse healthcare service fields, anticipating future societal changes. Key areas include 'Disease-Nutrition Genomics,' 'High-value Functional Biomaterials for Biofood,' 'Precision Medical Nutrition Management,' and 'Big Data-Based Health Management.' The ultimate goal is to foster core professionals in creative health and medical care, integrating personalized healthcare through nutrition genomics and metabolic analysis for individual longevity and health.

Educational Goals

- ▶ Cultivating female professionals contributing to the advancement of knowledge and technology in Food and Nutrition, as well as Biohealth Services, based on holistic education
- ▶ Developing industry experts who creatively adapt to the rapidly changing and innovative Health-related industries
- ▶ Fostering practical leaders who contribute to improving national health by integrating interdisciplinary knowledge in Food and Nutrition, as well as Biohealth Services

Desired Student Model

A practical professional leading the era of advanced technology for the improvement of human life quality and health



Professors



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Curriculum

Freshman >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Primary	Food Science(DB051200)	Annual	First	3	
School of Creativity and Convergence Studies	Core	Critical Thinking and Discussion(SA011100)	Annual	First	3	
School of Mathematics, Statistics and Data Science	Core	Introduction to Calculus and Vector Analysis(SA045900)	Annual	First	3	
School of Chemistry and Energy	Distribution	General Chemistry 1(SB030300)	Annual	First	3	
Department of Biotechnology	Distribution	General Biology 1(SB030500)	Annual	First	3	
Career Development Team	Career	Career Exploration by Major (SS010000)	Annual	First	1	



Curriculum

Freshman >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Primary	Organic Chemistry(DB040200)	Annual	Second	3	
School of Bio-Health Convergence	Primary	Nutritional Science(DB040600)	Annual	Second	3	
School of Bio-Health Convergence	Primary	Human Physiology(DB053000)	Annual	Second	3	
School of Creativity and Convergence Studies	Core	Creative thinking and writing(SA011200)	Annual	Second	3	
College of Knowledge-Based Services Engineering	Core	Python Programming for Scientists (SA046600)	Annual	Second	3	
School of Mathematics, Statistics and Data Science	Core	Advanced Mathematics for Natural Sciences(SA046000)	Annual	Second	3	
School of Chemistry and Energy	Distribution	General Chemistry 2(SB030400)	Annual	Second	3	
Department of Biotechnology	Distribution	General Biology 2(SB030600)	Annual	Second	3	



Curriculum

Sophomore >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Primary	Food Chemistry(DB000200)	Annual	First	3	
School of Bio-Health Convergence	Primary	Nutrition Biochemistry (DB000500)	Annual	First	3	
School of Bio-Health Convergence	Primary	Food Microbiology(DB093700)	Annual	First	3	
School of Bio-Health Convergence	Primary	Nutritional Assessment (DB000800)	Annual	Second	2	
School of Bio-Health Convergence	Primary	Meal Management(DB000900)	Annual	Second	3	
Food and Nutrition Sciences	Primary	Business and Personal Management of Food Service (DB000400)	Annual	First	3	
Food and Nutrition Sciences	Primary	Principles of Cooking(DB040100)	Annual	First	3	
Food and Nutrition Sciences	Primary	Advanced Nutrition(DB040800)	Annual	First	3	
Food and Nutrition Sciences	Primary	Korean Traditional Food and Experiment(DB040700)	Annual	Second	2	



Curriculum

Sophomore >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Biohealth Services	Primary	Basic Statistics for Public Health (DB093200)	Annual	First	3	
Biohealth Services	Primary	Public Health(DB093300)	Annual	First	3	
Biohealth Services	Primary	Introduction to Big Data (DB093400)	Annual	First	3	
Biohealth Services	Primary	Big Data programming (DB093900)	Annual	Second	3	
Biohealth Services	Primary	Health Education(DB094600)	Annual	Second	3	
Biohealth Services	Primary	Healthcare data analytics (Machine Learning & Healthcare Data Analytics)(DB094700)	Annual	Second	3	



Curriculum

Junior >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Advanced	Clinical Nutrition(DB052500)	Annual	First	3	
School of Bio-Health Convergence	Advanced	Clinical Nutrition & Experiments (DB001600)	Annual	Second	2	
School of Bio-Health Convergence	Advanced	Functional Foods(DB052500)	Annual	Second	3	
Food and Nutrition Sciences	Advanced	Nutrition Education and Counseling(DB001700)	Annual	First	2	
Food and Nutrition Sciences	Advanced	Food Processing and Lab (DB002000)	Annual	First	2	
Food and Nutrition Sciences	Advanced	Experiment in Cookery Science (DB002100)	Annual	First	2	
Food and Nutrition Sciences	Advanced	Foodservice Management (DB041200)	Annual	First	3	
Food and Nutrition Sciences	Advanced	Nutrition for Growth and Development(DB001000)	Annual	Second	3	
Food and Nutrition Sciences	Advanced	Diet Therapy(DB001300)	Annual	Second	3	
Food and Nutrition Sciences	Advanced	Law of Food Materials (DB050600)	Annual	Second	3	



Curriculum

Junior >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Biohealth Services	Advanced	Healthcare Communication (DB093800)	Annual	First	3	
Biohealth Services	Advanced	Understanding and applying healthcare software(DB094800)	Annual	First	3	
Biohealth Services	Advanced	Designing Healthcare Devices (DB095000)	Annual	First	3	
Biohealth Services	Advanced	Healthcare data analytics II (Digital Medical Image Processing)(DB095300)	Annual	First	3	
Biohealth Services	Advanced	Introduction to the health insurance system(DB094000)	Annual	Second	3	
Biohealth Services	Advanced	Preventive medicine & nutrition management(DB094100)	Annual	Second	3	
Biohealth Services	Advanced	Health program development and evaluation(DB094200)	Annual	Second	3	
Biohealth Services	Advanced	Biotechnology-based Precision Medicine(DB094300)	Annual	Second	3	
Biohealth Services	Advanced	Mobile Health Care(DB094900)	Annual	Second	3	



Curriculum

Senior >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Advanced	Practice in Food Service Institutions(DB001900)	Annual	First	2	
School of Bio-Health Convergence	Advanced	Field Work(DB002400)	Annual	First	2	
School of Bio-Health Convergence	Advanced	Nutrition in Public Health (DB002500)	Annual	First	3	
School of Bio-Health Convergence	Advanced	Food analysis(DB094400)	Annual	First	2	
School of Bio-Health Convergence	Advanced	Field Work(DB002400)	Annual	Second	2	
School of Bio-Health Convergence	Advanced	Food Marketing(DB002900)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Law of food hygiene(DB052700)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Sports Nutrition(DB094500)	Annual	Second	3	
Biohealth Services	Advanced	Health Information Technology and Personalized Services (DB095400)	Annual	First	3	
Biohealth Services	Advanced	Health and medical laws and regulations(DB095200)	Annual	Second	3	
Biohealth Services	Advanced	Biohealth Integrated Design (DB095100)	Annual	Second	3	



Personalized Dietary Management Track



Track Description

In response to Korea's aging society and the rise of chronic diseases, the program aims to educate specialists in personalized health management services. Utilizing health big data analysis, the goal is to cultivate experts capable of tailoring health services to the diverse characteristics of society members in the expanding market for health promotion services."

Related Major Competencies

- ▶ A multifaceted understanding of factors influencing health and the ability to approach them from various perspectives
- ▶ Knowledge in health education for enhancing community health

Specialized Career Paths

Healthcare service companies, health promotion management institutions, government and health welfare agency researchers

Curriculum

Section	Semester	Course Title	Credit
1	2	Nutritional Science	3
2	2	Meal Management	3
2	2	Introduction to Big Data	3
3	2	Diet Therapy	3

General Nutritionist Track



Track Description

A track aimed at cultivating customized nutrition experts in response to societal demands through the enhancement of practical competencies for nutritionists, incorporating the eligibility criteria for the national nutritionist licensure examination.

Related Major Competencies

Nutrition management, school meal operation management, hygiene and safety management, community nutrition business management, organizational management

Specialized Career Paths

Nutritionists in industries, public institutions, educational institutions, community health centers, and healthcare facilities

Curriculum

Section	Semester	Course Title	Credit
2	1	Food Microbiology	3
2	1	Food Chemistry	3
2	1	Nutrition Biochemistry	3
2	1	Advanced Nutrition	3
2	2	Nutritional Assessment	2
3	1	Foodservice Management	3
3	2	Law of Food Materials	3
4	1	Practice in Food Service Institutions	2
4	1, 2	Field Work	2





SUNGSHIN

WOMEN'S UNIVERSITY

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