

College of Natural Sciences
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



Lee Seungmin, PhD

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Professors



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Curriculum

Freshman



Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Primary	Introduction to Food Science (DB051200)	Annual	First	3	
School of Bio-Health Convergence	Primary	Introduction to Public Health (DB093300)	Annual	First	3	
School of Bio-Health Convergence	Primary	Introduction to Nutrition (DB040600)	Annual	Second	3	
School of Bio-Health Convergence	Primary	Human Physiology (DB053000)	Annual	Second	3	



Curriculum

Sophomore

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Biohealth Services	Primary	Health Program Management (DB094000)	Odd Years	First	3	
Biohealth Services	Primary	Mathematics for Data Analysis (DB095600)	Annual	First	3	
Biohealth Services	Primary	Data Analysis I (SAS Programming) (DB095700)	Annual	First	3	
Food and Nutrition Sciences	Primary	Nutrition Biochemistry 1 (DB000500)	Annual	First	3	
Food and Nutrition Sciences	Primary	Meal Management (DB000900)	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	

Curriculum

Sophomore



Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Food and Nutrition Sciences	Primary	Food Microbiology (DB093700)	Annual	First	3	
Food and Nutrition Sciences	Primary	Food Analysis and Laboratory (DB094400)	Annual	First	2	
School of Bio-Health Convergence	Primary	Biostatistics (DB093200)	Annual	First	3	
School of Bio-Health Convergence	Primary	Health Education (DB094600)	Even Years	First	3	
Biohealth Services	Primary	Data Structures (DB093900)	Annual	Second	3	
Biohealth Services	Primary	Data Analysis II (Advanced Python) (DB095800)	Annual	Second	3	
Biohealth Services	Primary	Understanding Health Security Systems and the Future of MyData (DB096400)	Annual	Second	3	

Curriculum

Sophomore



Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Food and Nutrition Sciences	Primary	Food Chemistry (DB000200)	Annual	Second	3	
Food and Nutrition Sciences	Primary	Foodservice Administration (DB000400)	Annual	Second	3	
Food and Nutrition Sciences	Primary	Nutrition Biochemistry 2 and Laboratory (DB000700)	Annual	Second	2	
Food and Nutrition Sciences	Primary	Nutritional Assessment and Laboratory (DB000800)	Annual	Second	2	
Food and Nutrition Sciences	Primary	Korean Cuisine and Laboratory (DB040700)	Annual	Second	2	
Food and Nutrition Sciences	Primary	Food Microbiology Laboratory (DB051400)	Annual	Second	2	
School of Bio-Health Convergence	Primary	Introduction to Big Data (DB093400)	Annual	Second	3	

Curriculum

Junior



Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Biohealth Services	Advanced	Healthcare Data Analysis I (Machine Learning) (DB094700)	Annual	First	3	
Biohealth Services	Advanced	Healthcare Data Analysis II (Medical Image Analysis) (DB095300)	Annual	First	3	
Biohealth Services	Advanced	Economic Evaluation in Biohealth (DB096100)	Annual	First	3	
Biohealth Services	Advanced	Health Information Standards Interface Development (DB096200)	Annual	First	3	
Food and Nutrition Sciences	Advanced	Nutrition Education and Counseling Laboratory (DB001700)	Annual	First	2	
Food and Nutrition Sciences	Advanced	Functional Foods (DB003300)	Odd Years	First	3	
Food and Nutrition Sciences	Advanced	Institutional Foodservice Management (DB041200)	Annual	First	3	
Food and Nutrition Sciences	Advanced	Clinical Nutrition (DB052500)	Annual	First	3	
Food and Nutrition Sciences	Advanced	Food Processing and Preservation (DB096500)	Annual	First	3	
School of Bio-Health Convergence	Advanced	Healthcare Communication (DB093800)	Odd Years	First	3	



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Curriculum

Junior



Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Bio-Health Convergence	Advanced	Preventive Medicine and Nutrition Management (DB094100)	Annual	First	3	
Biohealth Services	Advanced	Mobile Healthcare (DB094900)	Even Years	Second	3	
Biohealth Services	Advanced	Deep Learning Theory and Applications (DB095900)	Annual	Second	3	
Food and Nutrition Sciences	Advanced	Diet Therapy (DB001300)	Annual	Second	3	
Food and Nutrition Sciences	Advanced	Clinical Nutrition Laboratory (DB001600)	Annual	Second	2	
Food and Nutrition Sciences	Advanced	Food Processing and Preservation Laboratory (DB002000)	Annual	Second	2	
Food and Nutrition Sciences	Advanced	Experimental Cooking and Sensory Evaluation (DB002100)	Annual	Second	2	
Food and Nutrition Sciences	Advanced	Food Hygiene (DB050600)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Nutrition Across the Life Cycle (DB001000)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Health Program Development and Evaluation (DB094200)	Annual	Second	3	



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Curriculum

Senior



Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
Biohealth Services	Advanced	Healthcare Device Design (DB095000)	Annual	First	3	
Biohealth Services	Advanced	Health Information (RWD) Analysis (DB096000)	Even Years	First	3	
Food and Nutrition Sciences	Advanced	Foodservice Management Practice (DB001900)	Annual	First	2	
Food and Nutrition Sciences	Advanced	Dietitian Field Practicum (DB002400)	Annual	First and Second	2	
School of Bio-Health Convergence	Advanced	Public Health Nutrition (DB002500)	Annual	First	3	
Biohealth Services	Advanced	Integrated Digital Health Platform Development (DB096300)	Odd Years	Second	3	
Food and Nutrition Sciences	Advanced	Foodservice Product Development and Marketing (Capstone Design) (DB095500)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Food Sanitation Laws and Regulations (DB052700)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Sports Nutrition (DB094500)	Annual	Second	3	
School of Bio-Health Convergence	Advanced	Health and Medical Laws and Regulations (DB095200)	Annual	Second	3	



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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

Area	Semester	Course Title	Credit
1	2	Introduction to Nutrition	3
2	1	Meal Management	3
2	2	Introduction to Big Data	3
3	2	Diet Therapy	3

Dietitian Training 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

Area	Semester	Course Title	Credit
2	1	Food Microbiology	3
2	2	Food Chemistry	3
2	1	Nutrition Biochemistry 1	3
2	1	Advanced Nutrition	3
2	2	Nutritional Assessment and Laboratory	2
3	1	Institutional Foodservice Management	3
3	2	Food Hygiene	3
4	1	Foodservice Management Practice	2
4	First and Second	Dietitian Field Practicum	2





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