

Health & Wellness College
**School of Biopharmaceutical and
Medical Sciences**
at Sungshin Women's University





Department Introduction

The Department of Biopharmaceutical Sciences offers majors in Biopharmaceuticals and Global Medical Sciences. Students receive broad foundational training in biology, chemistry, mathematics, and related disciplines. In later years, specialized courses focus on biopharmaceutical development or medical life sciences. The Biopharmaceuticals major covers essential theories and practical skills for drug development processes, including cell culture and pharmaceutical analysis. The Global Medical Sciences major combines basic medical science courses with advanced English language learning, preparing students for research in medical life sciences and clinical medicine. Personalized academic and career guidance is provided through specialized tracks and a mentorship system.



Educational Goals

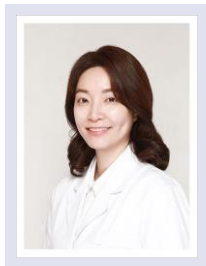
- ▶ Training expert researchers and industry professionals in the fields of new drug development and medical life sciences,
- ▶ Cultivating professionals with a strong grasp of phenomena and creative thinking skills,
- ▶ Developing future leaders with specialized expertise in each major.

Desired Student Model

- ▶ Problem-solving talents with a profound understanding of phenomena and interdisciplinary creativity
- ▶ Goal-oriented individuals embracing challenges with a proactive approach
- ▶ Global healthcare professionals with ethical values and professional integrity



Professors



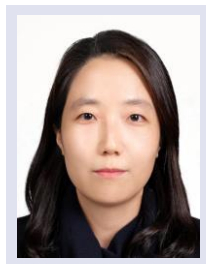
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Lim Donghyun, PhD

Field	Genome editing, cell therapy, gene therapy
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Lee Jiyoun, PhD

Field	Drug target and biomarker discovery, Chemical biology
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Ko, Byoung Joon, PhD

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Cho Myoungwon, PhD

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Song Jaemin, PhD

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Curriculum

Freshman >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
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	
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 Biopharmaceutical and Medical Sciences	Primary	Anatomy and physiology 1 (HB001700)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Primary	Organic Chemistry 1(HB001900)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Primary	Calculus 1(HB002700)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Primary	Pharmaceutical Analysis (HB050300)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Primary	Anatomy and physiology 2 (HB000200)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Primary	Organic Chemistry 2(HB002000)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Primary	Organic Chemistry Laboratory (HB002200)	Annual	Second	2	
School of Biopharmaceutical and Medical Sciences	Primary	Cell Biology(HB002900)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Primary	Calculus 2(HB004000)	Annual	Second	3	



Curriculum

Junior >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Biopharmaceutical and Medical Sciences	Advanced	Physics 1(HB001100)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Biochemistry 1(HB003100)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Medical Physiology 1(HB003300)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Physics Laboratory(HB005600)	Annual	First	2	
School of Biopharmaceutical and Medical Sciences	Advanced	Next-Generation Therapeutics (HB050700)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Structural Biology(HB050800)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Research Methodology in Medical Sciences 1(HB051000)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Biopharmaceutical Lab(HB051100)	Annual	First	2	



Curriculum

Junior >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Biopharmaceutical and Medical Sciences	Advanced	Physics 2(HB001200)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Microbiology(HB001800)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Biochemistry 2(HB004300)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Medical Physiology 2(HB004400)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Physics Laboratory(HB005600)	Annual	Second	2	
School of Biopharmaceutical and Medical Sciences	Advanced	Research Methodology in Medical Sciences 2(HB010200)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Biopharmaceutics(HB051300)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Virology(HB051400)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Protein engineering experiment (HB051700)	Annual	Second	2	



Curriculum

Senior >>>

Department	Completion Type	Course Title (Course Code)	Schedule	Semester	Credit	Remarks
School of Biopharmaceutical and Medical Sciences	Advanced	Immunology(HB002300)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Medicinal Chemistry 1 (HB004700)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	English Writing 1(HB005200)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Biomolecular structure(HB051600)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Pathophysiology 1(HB051800)	Annual	First	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Medicinal Chemistry 2 (HB010100)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	English Writing 2(HB010400)	Annual	Second	3	
School of Biopharmaceutical and Medical Sciences	Advanced	Pathophysiology 2(HB051900)	Annual	Second	3	



Biopharmaceutical Track



Curriculum

Section	Semester	Course Title	Credit
2	1	Organic Chemistry 1(HB001900)	3
2	1	Pharmaceutical Analysis (HB050300)	3
2	2	Anatomy and physiology 1 (HB001700)	3
3	1	Biochemistry 1(HB003100)	3
3	1	Medical Physiology 1 (HB003300)	3
3	1	Next-Generation Therapeutics (HB050700)	3
3	1	Research Methodology in Medical Sciences 1(HB051000)	3
3	1	Biopharmaceutical Lab (HB051100)	2



SUNGSHIN

WOMEN'S UNIVERSITY

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