

Department of Health Care Sciences

I. Educational Objectives

The Department of Health Care Sciences aims to cultivate competitive global leaders equipped with the capacity to plan, implement, and evaluate the effects of domestic and international health policies and health promotion projects. This is achieved through an integrated understanding of the personal, social, and environmental causes of health issues in our society, alongside changing modern trends represented by the "Fourth Industrial Revolution." To this end, students comprehensively study theories and practical applications across various adjacent academic fields related to health care sciences. Concurrently, they cultivate the ability to combine these fields to establish integrated strategies for resolving current health issues and to develop new theories.

II. Academic Fields (Majors)

Major in Health Law, Economics, and Policy

Major in Healthcare Industry

Major in Digital Health Statistics

III. Departmental Regulations

1. Academic Advisor and Co-Advisor

- 1) Immediately after admission, a student receives a recommendation for the most suitable academic advisor from among the department faculty through a group or individual interview conducted either in writing or face-to-face with the Department Chair. The academic advisor is officially selected upon obtaining that respective professor's consent.
- 2) It is recommended that the academic advisor selects one co-advisor through consultation with the student.
- 3) The academic advisor and co-advisor must satisfy the criteria stated in Articles 34 and 35 of the Graduate School Academic Operations Regulations.

2. Course Completion and Credit Acquisition

- 1) Completed courses are designated by the academic advisor and officially selected upon obtaining the approval of the Department Chair.
- 2) Required Graduation Credits:
 - Master's Program: 24 credits or more
 - Doctoral Program: 30 credits or more
 - Integrated Master's/Doctoral Program: 48 credits or more
- 3) Minimum Required Major Credits to be taken within this Department:
 - Master's Program: 15 credits or more
 - Doctoral Program: 20 credits or more
 - Integrated Master's/Doctoral Program: 27 credits or more
- 4) Prerequisite Courses Designated by Academic Advisor:
 - For students who lack basic background knowledge for learning and conducting research due to reasons such as changing their major, the academic advisor may designate undergraduate courses or graduate courses (in the case of the Doctoral program), subject to the approval of the Department Chair.
 - Designated courses must be completed mandatorily.

3. Comprehensive Examination

- 1) The subjects for the comprehensive examination are determined by the academic advisor and approved by the Department Chair. The number of subjects is as follows:
 - Master's: 2 subjects among major courses
 - Doctoral: 4 subjects among major courses

2) Those who fail the comprehensive examination will retake the exam for the failed subjects in the following semester.

3) Subjects applicable for the comprehensive examination are limited to courses opened by full-time faculty members. *(As a transitional measure, the enforcement of this specific clause shall take effect from September 1, 2025.)*

4. Degree Thesis/Dissertation Submission Eligibility

Students who meet the criteria of Article 43 or Article 44 of the Graduate School Academic Operations Regulations may submit their thesis/dissertation for a degree defense if they satisfy the following additional conditions:

- Master's Program: Must publish at least 1 paper in a journal indexed (or candidate for indexing) by the National Research Foundation of Korea (NRF) or higher, OR present as the first author at least once (oral or poster presentation) at an academic conference.
- Doctoral and Integrated Programs: Must publish 2 or more papers in journals indexed (or candidate for indexing) by the NRF or higher, OR publish 1 or more papers as the first author in an SSCI-level journal. *(Papers officially accepted for publication are also recognized.)*

5. Miscellaneous

1. When a student belonging to the Department of Health Care Sciences completes a course offered by the Department of Public Health Sciences (referred to as "보건학과" in the text), it will be recognized as a major credit for the Department of Health Care Sciences upon the approval of the academic advisor.
2. Matters not explicitly specified in these bylaws shall comply with the Academic Regulations and Enforcement Rules of the Graduate School.
3. Detailed matters shall follow the internal major regulations of the Department of Health Care Sciences.

Addenda

- 1) (Enforcement Date) These bylaws shall take effect on September 1, 2020.
- 2) (Transitional Measures) These bylaws apply starting from students entering in the 1st semester of the 2021 academic year. Students who entered prior to March 1, 2021, must complete 36 credits for the Doctoral program and 54 credits for the Integrated Master's/Doctoral program.

IV. Courses Offered by the Department of Health Care Sciences

Core Common Courses (기초공통)

Course Code	Course Title	Credits (Hours)
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HCS 502	Introduction to Healthcare	3(3)
HCS 504	Theory of Health Insurance	3(3)
HCS 506	Health Justice	3(3)

Major Courses (전공과목)

1. Major in Health Law, Economics, and Policy(보건법경제정책전공)

Course Code	Course Title	Credits (Hours)
HCS 501	Comparative Health Systems Around the World	3(3)
HCS 503	Seminar in Healthcare Human Resources Management	3(3)
HCS 505	Implementation Science in Public Health	3(3)
HCS 508	Aging in Public Health & Long-Term Care System	3(3)
HCS 507	Gender and Health	3(3)
HCS 510	Public Health Psychology	3(3)
HCS 512	Biobehavioral Health	3(3)
HEL 1642	Seminar in Law and Public Health	3(3)
HEL 690	Seminar in Pharmaceutical Policy	3(3)
HEL 718	Social Science Research Methods For Public Health	3(3)
HEL 923	Public Healthcare Services	3(3)
HEL 943	Welfare State, Social Policy and Health	3(3)
HEL 945	Politics of Health Policy	3(3)
HEL 947	Methods for Health Equity Studies	3(3)
HEL 949	Hospital Management Analysis	3(3)
HEL 1643	Healthcare Strategic Planning	3(3)
HEL 1639	Seminar in Healthcare Organization Management	3(3)

HEL 942	Health and International Development	3(3)
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2. Major in Healthcare Industry (보건의료산업전공)

Course Code	Course Title	Credits (Hours)
HCS 514	Smart Healthcare	3(3)
HCS 509	Digital and Healthcare	3(3)
HCS 511	Urban Environment and Community	3(3)
HCS 513	Hospital Information System	3(3)
HCS 516	Hazardous Substances and Health	3(3)
HCS 518	Health and Environment Convergence Technology Policy	3(3)
HEL 688	Health Information Technology	3(3)
HEL 689	Hospital Management Information System	3(3)
HEL 926	Seminar in U-Healthcare Services	3(3)
HEL 628	Investigation Study in Dental Industry	3(3)
HEL 617	Dental Bio-Engineering Techniques and Applications	3(3)
HEL 621	Advanced Prosthodontics, Lab Technology	3(3)
HEL 856	Assessment of Research Papers in Digital Dental Industry	3(3)

3. Major in Digital Health Statistics (디지털보건통계전공)

Course Code	Course Title	Credits (Hours)
HCS 520	Healthcare Data Management Strategy	3(3)
HCS 515	Introduction to Machine Learning	3(3)
HCS 517	Intermediate Health Statistics	3(3)
HCS 519	Health Big Data Analysis	3(3)
HCS 522	Cohort Analyses using KOGES	1(1)

HEL 706	HIM Strategy	3(3)
HEL 677	Advanced Healthcare Database	3(3)
HEL 941	Healthcare BI Seminar	3(3)
HEL 686	Multi-Level and Panel Data Analysis	3(3)
HEL 687	Structural Equation Modeling in Health Research	3(3)
HEL 937	Categorical Data Analysis	3(3)
HEL 1653	Math for Health Scientists	3(3)
HEL 1654	Mathematical Statistics	3(3)
HEL 1872	Survival and Longitudinal Data Analysis	3(3)
HEL 1874	Bayesian Data Analysis	3(3)