

## IEE2112-01 HUMAN BODY, DISEASES, AND RESEARCH

<b>COURSE TITLE</b>	HUMAN BODY, DISEASES, AND RESEARCH	<b>COURSE CODE-SECTION</b>	IEE2112-01
<b>CREDIT</b>	3	<b>CLASS PERIOD</b>	P2(11:00-12:40)
<b>OFFICE</b>	Department of Pediatrics, Yonsei University College of Medicine	<b>OFFICE HOURS</b>	By appointment
<b>INSTRUCTOR</b>	JAE IL SHIN	<b>EMAIL</b>	shinji@yuhs.ac

### [COURSE INFORMATION]

<b>COURSE DESCRIPTION &amp; BRIEF INTRODUCTION OF THE COURSE</b>	This class is a 6-week course where students acquire basic knowledge about Human Body, Diseases, Research. Human body includes the anatomy, physiology, and biochemistry of various organs in our body and learns about various diseases that develop in our body. This course also includes the basic research methodology and thinking processes for research on the causes and treatments of diseases with the examples of what the instructor actually did for each organ.						
<b>COURSE GOALS</b>	1. Understand the function of each organ that makes up the human body						
	2. Understand the causes of various diseases that occur in the human body						
	3. Understand the symptoms, diagnosis, treatment of various diseases that occur in the human body						
	4. Understand the basic research methodology for studying each disease.						
<b>COURSE METHODS (100% TOTAL)</b>	LECTURE	PRACTICE TRAINING	INDIVIDUAL ASSIGNMENT AND PRESENTATION	DEBATE	TEAM PROJECT		
	80%		20%				
<b>GRADING POLICY (100% TOTAL)</b>	MIDTERM	FINAL EXAM	QUIZ	INDIVIDUAL ASSIGNMENT AND PRESENTATION	TEAM ASSIGNMENT	ATTENDANCE	OTHERS
		20%		50%		30%	
<b>PREREQUISITE</b>	High school level knowledge on biology, chemistry and physics						

Course Syllabus  
2025 YONSEI INTERNATIONAL SUMMER SCHOOL  
6-WEEK PROGRAM



연세대학교  
YONSEI UNIVERSITY

<b>COURSE REQUIREMENTS</b>	Course requirements include lectures, weekly assignments to each student, presentation of journal or writing or personal report by each student at the end of this course
<b>TEXTS &amp; REFERENCES</b>	<p><a href="https://accessmedicine.mhmedical.com/book.aspx?bookID=3095">https://accessmedicine.mhmedical.com/book.aspx?bookID=3095</a></p> <p>Examples by students <a href="https://chikd.org/journal/view.php?number=796">https://chikd.org/journal/view.php?number=796</a></p> <p><u>Smoking and rheumatoid arthritis.</u> Chang K, Yang SM, Kim SH, Han KH, Park SJ, <b>Shin JI</b>. <i>Int J Mol Sci</i>. 2014 Dec 3;15(12):22279-95.</p> <p><u>Pathogenesis of Eosinophilic Esophagitis: A Comprehensive Review of the Genetic and Molecular Aspects.</u> Ryu S, Lee KH, Tizaoui K, Terrazzino S, Cargnin S, Effenberger M, <b>Shin JI</b>, Kronbichler A. <i>Int J Mol Sci</i>. 2020 Sep 30;21(19):7253. doi: 10.3390/ijms21197253.</p>

**[WEEKLY SCHEDULE]**

WEEK	DAILY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	REFERENCE
WEEK1 (June 30 to July 3, 2025)	Introduction to human body, Diseases, Research Introduction of professor and students and this course Field of medicine Selection of interested organ and disease by each student.	Each student selects one interested disease and describe the reason why the student selected the disease. Then, describe the basic information on the disease (definition of the disease, incidence, prevalence of the disease, brief description on the causes of the disease)	Above references
WEEK 2 (July 7 to July 10, 2025)	Human body, Diseases and Research I Respiratory system Cardiovascular system Digestive system Genitourinary system	For the selected disease, each student describes on the pathogenesis of the diseases	
WEEK3 (July 14 to July 17, 2025)	Human body, Diseases and Research II Nervous system Musculoskeletal system Endocrine/exocrine system/ Integumentary system Reproductive system	For the selected disease, each student describes on the pathogenesis or diagnosis/treatment of the diseases	
WEEK4 (July 21 to July 23, 2025)	Human body, Diseases and Research III Immune/lymphatic system and rheumatic diseases	For the selected disease, each student describes on the pathogenesis or diagnosis/treatment of the diseases	



WEEK	DAILY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	REFERENCE
	Microbiology and infectious diseases Hematologic and oncologic diseases Genetic diseases/Pediatric diseases		
WEEK5 (July 28 to July 31, 2025)	Human body, Diseases and Research IV Surgical diseases Preventive medicine/Global health and environmental medicine Laboratory medicine Diagnostic and therapeutic Radiology/Nuclear medicine	None	
WEEK6 (August 4 to August 6, 2025)	Presentation of one selected disease and it's related journal or writing or personal report by each student  Examination	Final presentation	