

Course number	U-LAS70 10002 SE50				
Course title (and course title in English)	ILAS Seminar-E2 :Decoding Human Diseases and Medicine (病気のバイオメディカルサイエンス) ILAS Seminar-E2 :Decoding Human Diseases and Medicine	Instructor's name, job title, and department of affiliation	Graduate School of Medicine Professor, THUMKEO , Dean		
Group	Seminars in Liberal Arts and Sciences	Number of credits	2	Number of weekly time blocks	1
Class style	seminar (Face-to-face course)	Year/semesters	2024・First semester	Quota (Freshman)	9 (9)
Target year	Mainly 1st year students	Eligible students	For all majors	Days and periods	Tue.5
Classroom	11, Yoshida-South Campus Academic Center Bldg. North Wing			Language of instruction	English
Keyword	Human Diseases / Medicine / Immunology / Cancer / Biomedical Sciences				
[Overview and purpose of the course]					
<p>This ILAS seminar is designed to provide freshmen undergraduate students who are interested in medicine and health science, a brief introduction to pathophysiology of common human diseases and the current therapeutics. Students will start to learn from this seminar about basic anatomy and physiology of human body, and then subsequently the fundamental principles of some representative common diseases such as rheumatoid and cancer. Moreover, recent topics on obesity, aging and gut flora will also be discussed in this seminar through reading circles. Finally, students will conduct a presentation about the pathophysiology basis of a human disease of their interests and discuss about the current and future therapeutics.</p> <p>Also noted that language that is accessible to students without a medical background will be used in this seminar to help their understanding.</p>					
[Course objectives]					
By participating in this ILAS Seminar, students will gain fundamental knowledge of the current understanding of some representative common diseases in human.					
[Course schedule and contents]					
<p>The seminar comprises interactive lectures, reading circles, and student presentations. The first third of the semester will include interactive lectures by the instructor, the second third will focus on reading circles, and the final third will involve student presentations and discussions.</p> <p>1-7 Interactive Lectures (Handouts for each lecture will be uploaded on Panda):</p> <ol style="list-style-type: none"> 1: Introduction: Overview of the course objective and structure. 2: Cell and Proteins: Understanding the fundamental building blocks of human body. 3: Tissue and Body: Exploring the organization and function of tissues in human body. 4: Inflammation: Studying the body 's response to a variety of challenges, e.g. injury. 5: Immunity and Immune Diseases: Exploring the complexity of the immune systems & diseases. 6: Cancer: Learning about the mechanisms and therapeutics of cancer. 7: Cancer Immunotherapy: Discussing recent breakthroughs in harnessing the immune system to fight cancer. <p>8-10 Reading Circles (Reading materials will be provided by the instructor):</p>					
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8: Obesity: Understanding the causes of obesity and its consequences on our health.

9: Aging: Exploring the latest understanding of aging mechanisms and their impact.

10: Gut Flora: Studying the history of gut flora research and recent advances.

11-13 Student ' s Presentation (Disease of Interest 1, 2, 3):

Each student presents on a specific disease of their interest, followed by group discussions.

14 Summary and Discussion:

Recapitulating key learnings from the course and engaging in the final discussion

15 Feedback

Note: The schedule is subject to adjustments based on the number of students and specific needs of the class.

[Course requirements]

None

[Evaluation methods and policy]

Attendance and Active participation to the lectures (Weeks 1-7) (20%)

Active participation in reading circles (Weeks 8-10) (30%)

Quality of student presentations and discussions (Weeks 11-14) (40%)

A report (10%)

[Textbooks]

Handouts and reading materials will be provided when necessary.

[References, etc.]

(References, etc.)

Ian Peate 『Fundamentals of Applied Pathophysiology: An Essential Guide for Nursing and Healthcare Students, 4th Edition』 (May 2021, Wiley-Blackwell) ISBN:978-1-119-69947-7

[Study outside of class (preparation and review)]

I recommend students to confirm the handouts for each lecture and the relevant reference textbook to learn about the lecture content in advance of the class. Handouts for each lecture will be uploaded on PandaA approximately one week before each class.

[Other information (office hours, etc.)]

Consultation via email or online meetings such as Zoom is possible. For those students who prefer to discuss directly with the instructor, please arrange appointments by email in advance.