科目ナンバリング	U-LAS14 20071 LE68						
授業科目名 <英訳>	Introduction to Biosciences-E2 Introduction to Biosciences-E2			担当者所属 職名・氏名	薬学研究科　講師　MACPHERSON TOM		
群	自然科学科目群	分野(分類)	生物学(各論)			使用言語	英語
旧群	B群	単位数	2単位	週コマ数	1コマ	授業形態	講義（対面授業科目）
開講年度・開講期	2026・後期	曜時限	月4	配当学年	全回生	対象学生	全学向

[授業の概要・目的]

Life is everywhere; in oceans, forests, and within every cell of your body, but what makes it work?

This course offers a broad introduction to the biosciences, exploring how chemistry gives rise to living systems and how those systems evolve, interact, and adapt.
Students will journey from the molecules that make up life to the complex structures and behaviors of plants and animals.
Along the way, we ’ll uncover how genes shape diversity, how brains sense and respond to the world, and how ecosystems sustain life on Earth.
Through lectures, discussions, and presentations, students will not only gain a foundation in modern biology but also develop confidence in understanding and communicating biological ideas in English.

[到達目標]

Students will gain an understanding of the diversity of Bioscience and its importance in our daily lives.
Students will develop the ability to understand and discuss various aspects of Bioscience in English, as well as to read, understand, and think critically about Bioscience in the media, such as in news reports, newspaper articles, and scientific journal articles.

[授業計画と内容]

1. Introduction to the course; Chemistry of life
2. Cell structure
3. Genetics
4. Biological Diversity
5. Viruses
6. Plant Biology
7. Mid-term exam + Feedback,
   Explanation of Class Presentations
8. Animal Form and Function
9. The Nervous system
10. Sensory Systems
11. Class Presentations
12. The Immune System
13. Evolution
14. Ecology

≪Final exam≫

15. Feedback

Introduction to Biosciences-E2(2)へ続く↓↓↓

Introduction to Biosciences-E2(2)

[履修要件]

This is an introductory course and prior knowledge of the topic is not necessary. All essential knowledge for the class and exams will be provided in class. Students need only to have a curiosity about the study of life.

[成績評価の方法・観点]

Attendance & Participation 25%.
Midterm Exam (Multiple Choice) 25%.
Class presentation (Short Oral Talk) 25%.
Final Exam (Multiple Choice) 25%.

[教科書]

OpenStax Biology 2e freely available to download at the URL below.

（関連ＵＲＬ）

https://openstax.org/details/books/biology-2e

[授業外学修（予習・復習）等]

Review from the textbook, previous lecture content, and preparation for class presentation to be presented.

[その他（オフィスアワー等）]

The contents of the syllabus are a guide to the content of the course, the exact content may change. Input and suggests from students are very welcome and I am happy to discuss the course material with students via email or in-person meeting.

[主要授業科目（学部・学科名）]

薬学部薬科学科、薬学部薬学科