

LE204 Basics of Life Science Course

開講年度 学期: 2016 年度 春学期

科目名: Basics of Life Science

担当教員: Ray Luo (coordinator), Anthony Decostanzo

科目区分: Life, Environment, Matter and Information

配当年次: 1 年以上 単位数: 2

授業概要:

Life Science encompasses all fields of science associated with the study of living organisms. This course will provide insights into how biological interactions are fundamental to life. The essential concepts of biology also provide a basis to understand how biological processes can affect health and disease.

授業の到達目標 (Objectives):

This course will provide students with an overview of the elementary concepts in biology. Students will gain an understanding of the fundamentals of biology, the biological systems of life and how application of our knowledge of biology to technology improves our everyday life.

授業計画:

- 16.04.07 Chemistry of life (RL)
- 16.04.14 Cellular organelles (RL)
- 16.04.21 Life of the cell (RL)
- 16.04.28 Origin of life and creating life (RL)
- 16.05.12 Genetics (RL)
- 16.05.19 Sensory and motor systems (RL)
- 16.05.26 Nervous systems (RL)
- 16.06.02 Mid-term exam (RL)
- 16.06.09 Cell physiology and metabolism (AD)
- 16.06.16 Evolution (AD)
- 16.06.23 Neurological and psychiatric disease (AD)
- 16.06.30 Genetic causes of disease (AD)
- 16.07.07 Gene therapy (AD)
- 16.07.14 Biology research policy and ethics (AD)
- 16.07.21 Final exam (AD)

参考文献

Biology by Neil A. Campbell & Jane B. Reece

成績評価方法

試験: 80% Mid-term exam = 40%, Final exam = 40%
平常点評価: 20% Attendance = 20%

備考・関連 URL

Students must attend at least 10 lectures in order to gain the marks for attendance. The exams will consist of multiple choice format questions.