



BIOLOGY

2024-25 Winter Program
@Bluekey Prep Apgujeong

INSTRUCTOR

Linne Lee (Ewha Womans University)

COURSE DESCRIPTION

- Session 1
12/16(월) - 12/21(토) & 12/23(월) - 12/27(금), 총 10회
- Session 2
12/23(월) - 1/4(토), 총 10회
** 12/25, 1/1 휴강

CLASS PLAN

- Day 1 **Review and Previous Semester 1 Units**
 - unit1 Biochemistry / unit2 Cell Biology / unit3 Metabolism
 - unit4 Cellular Respiration / unit5 Photosynthesis
 - unit6 The Cell Cycle - Mitosis / unit7 The Cell Cycle - Meiosis
 - unit8 Genetics
- Day 2 **Unit 9 : Molecular Biology 1**
 - DNA replication
 - Transcription and translation
- Day 3 **Unit 10 : Molecular Biology 2**
 - Gene Regulation
 - Genetic engineering and Biotechnology
- Day 4 **Unit 11 : Evolution 1**
 - Darwinian evolution
 - Microevolution



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- Day 5 **Unit 12 : Evolution 2**
 - Speciation
 - Understanding classification and phylogenetic tree
- Day 6 **Unit 13 : Physiology 1**
 - Introduction to 11 systems and homeostasis
 - The digestive system
- Day 7 **Unit 14 : Physiology 2**
 - The circulatory system
 - The respiratory system
- Day 8 **Unit 15 : Physiology 3**
 - The immune system
- Day 9 **Unit 16 : Ecology**
 - Biomes
 - Population, community and ecosystems
 - Energy flow within and across ecosystems
 - Human impact on the environmental changes
- Day 10 **Overall Review**