



# AP 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 of Unit 1 and Unit 2**
  - Unit 1 : Chemistry of Life
  - Unit 2 : Cell Structure and Function
- Day 2 **Review of Unit 3 and Unit 4**
  - Unit 3 : Cellular Energetics
  - Unit 4 : Cell Communication and Cell Cycle
- Day 3 **Unit 5 : Heredity**
  - Process and function of meiosis
  - Concepts of genetic diversity
  - Mendel's laws and non-Mendelian inheritance
  - Factors affecting inheritance and gene expression
- Day 4 **Unit 6 : Gene Expression and Regulation**
  - Roles and functions of DNA and RNA
  - Mechanisms of gene expression in relation to genotype and phenotype
  - Mutations and genetic diversity
  - Genetic engineering and biotechnology



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- Day 5 **Unit 5 & 6 : Review and Problem Solving**
- Day 6 **Unit 7 : Natural Selection**
  - Evidential support for evolution and common ancestry
  - Mechanisms of natural selection and speciation
  - Environmental and human-caused factors in evolution
  - Charting species ancestry through phylogenetic and cladograms
  - Extinction
  - Models of the origin of life on Earth
- Day 7 **Unit 8 : Ecology**
  - Communication and responses to environmental change
  - Energy flow within and across ecosystems
  - Factors in growth, density and success of populations
  - Factors in community and ecosystem dynamics
  - Invasive species, human interaction and environmental changes
- Day 8 **Unit 7 & 8 : Review and Problem Solving**
- Day 9 **AP Biology overall Review and Question Set 1**
- Day 10 **AP Biology overall Review and Question Set 2**