

## COURSE SCHEDULE

| Week | Date | Topic of Lectures  | Instructor |
|------|------|--|------------|
| 1    | 2017 | 09 / 14 Life on Earth I - Ch01: Biology and Its Themes<br>Life on Earth II - Ch25: Macroevolution    | Li         |
| 2    |      | 09 / 21 Life on Earth I - Ch01: Biology and Its Themes<br>Life on Earth II - Ch25: Macroevolution    | Li         |
| 3    |      | 09 / 28 <b>No class</b>  |            |
| 4    |      | 10 / 05 Ch02: Atoms and Molecules<br>Ch03: The Chemistry of Water                                    | Chiao      |
| 5    |      | 10 / 12 Ch04: Carbon: The Basis of Molecular Diversity<br>Ch05: Biological Macromolecules and Lipids | Chiao      |
| 6    |      | 10 / 19 Ch06: Energy and Life<br>Ch07: Cell Structure and Function                                   | Chiao      |
| 7    |      | 10 / 26 Ch08: Cell Membranes<br>Ch09: Cellular Signaling   | Chiao      |
| 8    |      | 11 / 02 Ch10: Cell Respiration<br>Ch11: Photosynthetic Processes                                     | Chiao      |
| 9    |      | 11 / 09 Ch12: Mitosis<br>Ch13: Sexual Life Cycles and Meiosis  | Chiao      |
| 10   |      | <b>11 / 16 Midterm Examination ( Ch01-13 &amp; Ch25 )</b>  |            |
| 11   |      | 11 / 23 Ch14: Mendelian Genetics<br>Ch15: Linkage and Chromosomes                                    | Chuang     |
| 12   |      | 11 / 30 Ch16: Nucleic Acids and Inheritance<br>Ch17: Expression of Genes                             | Chuang     |
| 13   |      | 12 / 07 Ch18: Control of Gene Expression<br>Ch26: Introduction to Viruses                            | Chuang     |
| 14   |      | 12 / 14 Ch19: DNA Technology   | Chuang     |
| 15   |      | 12 / 21 Ch20: The Evolution of Genomes   | Chuang     |
| 16   |      | 12 / 28 Ch21: How Evolution Works<br>Ch22: Phylogenetic Reconstruction                               | Ng         |
| 17   | 2018 | 01 / 04 Ch23: Microevolution<br>Ch24: Species and Speciation   | Ng         |
| 18   |      | <b>01 / 11 Final Examination ( Ch14-24 &amp; 26 )</b>  |            |

### Course info

授課老師：李家維、焦傳金、莊永仁、黃貞祥

課程網址：清華數位學習平台 <http://lms.nthu.edu.tw/>

### TA info

### Textbook

Campbell Biology (11th Edition), Neil A. Campbell , Lisa A. Urry, Michael L. Cain, Steven A. Wasserman , Peter V. Minorsky, Jane B. Reece (2017)