**Syllabus (2021-Spring)**

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| Course Title | Cell Biology I | Course No. | 34229-02/34229-03 |
| Department/ Major | Life Sciences/Biological Sciences | Credit/Hours | 3 |
| Class Time/ Classroom | [34229-02] Tues. 3:30-4:45/Thurs. 12:30-1:45  [34229-03] Tues. 9:30-10:45/Fri. 11:00-12:15 | | |
| Instructor | Name Mijung Kwon/Eun-Kyung Suh | Department Life Sciences | |
| E-mail [mjkwon@ewha.ac.kr](mailto:mjkwon@ewha.ac.kr)  [esuh@ewha.ac.kr](mailto:esuh@ewha.ac.kr); | Phone 02-3277-4909 (Prof. M Kwon)  02-3277-4567 (Prof. E. Suh); | |
| Office Hours/ Office Location |  | | |

**Ⅰ. Course Overview**

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| 1. Course Description |
| Cell Biology I will begin with an introduction to a variety of research techniques that were developed to study cells – the fundamental units of life. The course also covers fundamental topics in cell biology including internal organization of the cells, functions of membrane channels, mechanisms of protein targeting and transport across organized cellular compartments. |

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| 2. Prerequisites |
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Previous courses in General Biology, Biochemistry and Molecular Biology are highly recommended but not prerequisite.

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| 3. Course Format |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Lecture | Discussion/Presentation | Experiment/Practicum | Field Study | Other | | 90 % | % | % |  | 10 % |   (Instructor can change to match the actual format of the class.)  Explanation of course format:  Power point presentations will be presented and short video presentations will be shown. Questions are encouraged. |

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| 4. Course Objectives |
| The fundamental principles of cell biology taught in this course aims to help students understand organization and function of cells in tissues, physiological systems and how disorder in these systems lead to disease progression. |

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| 5. Evaluation System |
| ☐ Relative evaluation ☐ Absolute evaluation ■ Others :  - Explanation of evaluation system:   |  | | --- | | Relative Evaluation: A+B (80%); C (20%) (±5%) |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Midterm Exam | Final Exam | Quizzes | Presentation | Projects | Assignments | Participation | Other | | 40 % | 40 % | % | % | % | 10% | 10% | % |   \* Evaluation of group projects may include peer evaluations. |

**Ⅱ. Course Materials and Additional Readings**

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| 1. Required Materials |
| **Title:** Molecular Biology of the Cell, 6th Edition  **Authors:** B. Alberts, A. Johnson, J. Lewis, M. Raff, K. Roberts, P. Walter  **Publisher:** Garland Science |
| 2. Supplementary Materials |
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| 3. Optional Additional Readings |
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**Ⅲ. Course Policies**

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| \* For laboratory courses, all students are required to complete lab safety training. |

**Ⅳ. Course Schedule (15 credit hours must be completed.)**

| Week | Date | Topics & Class Materials, Assignments |
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| **Week 1** | (03/02) | Introduction |
| (03/04 or 05) | Analyzing Cell, Molecules and Systems (Prof. Kwon) |
| **Week 2** | (03/09) | Analyzing Cell, Molecules and Systems |
| (03/11 or 12) | Analyzing Cell, Molecules and Systems |
| **Week 3** | (03/16) | Analyzing Cell, Molecules and Systems |
| (03/18 or 19) | Analyzing Cell, Molecules and Systems |
| **Week 4** | (03/23) | Analyzing Cell, Molecules and Systems |
| (03/25 or 26) | Analyzing Cell, Molecules and Systems |
| **Week 5** | (03/30) | Visualizing Cells |
| (04/01 or 02) | Visualizing Cells |
| **Week 6** | (04/06) | Visualizing Cells |
| (04/08 or 09) | Membrane Structure |
| **Week 7** | (04/13) | Membrane Structure |
| (04/15 or 16) | Membrane Structure |
| **Week 8** | (04/20) | Mid-semester Exam (Tentative) |
| (04/22 or 23) | Membrane Transport (Prof. Suh) |
| **Week 9** | (04/27) | Membrane Transport |
| (04/29 or 30) | Membrane Transport |
| **Week 10** | (05/04) | Membrane Transport |
| (05/06) | Membrane Transport |
| **Week 11** | (05/11) | Intracellular Compartments |
| (05/13) | Intracellular Compartments |
| **Week 12** | (05/18) | Intracellular Compartments |
| (05/20) | Intracellular Compartments |
| **Week 13** | (05/25) | Intracellular Membrane Traffic |
| (05/27) | Intracellular Membrane Traffic |
| **Week 14** | (06/01) | Intracellular Membrane Traffic |
| (06/03) | Intracellular Membrane Traffic |
| **Week 15** | (06/08) | Intracellular Membrane Traffic |
| (06/10) | Final Exam (Tentative) |
| Makeup Class | (mm/dd) |  |
| Makeup Class | (mm/dd) |  |

**Ⅴ. Special Accommodations**

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| \* According to the University regulation section #57-3, students with disabilities can request for special accommodations related to attendance, lectures, assignments, or tests by contacting the course professor at the beginning of semester. Based on the nature of the students’ request, students can receive support for such accommodations from the course professor or from the Support Center for Students with Disabilities (SCSD). Please refer to the below examples of the types of support available in the lectures, assignments, and evaluations.   |  |  |  | | --- | --- | --- | | Lecture | Assignments | Evaluation | | ․ Visual impairment : braille, enlarged  reading materials  ․ Hearing impairment : note-taking  assistant  ․ Physical impairment : access to classroom,  note-taking assistant | Extra days for submission,  alternative assignments | ․ Visual impairment : braille examination paper,  examination with voice support, longer  examination hours, note-taking assistant  ․ Hearing impairment : written examination  instead of oral  ․ Physical impairment : longer examination  hours, note-taking assistant |   - Actual support may vary depending on the course. |

\* The contents of this syllabus are not final—they may be updated.