

# Introductory Biology

## Syllabus - Spring 2021

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**Course objectives:** By the end of the course, students will be able to;

- Understand the characteristics of life and why they are relevant to survival
- Identify the different classifications of organisms and their defining traits
- Understand the process of cell division and the genetics involved in hereditary
- Understand the functions and differences of different systems within plants and animals
- Use biological vocabulary correctly and within the correct context
- Accurately reproduce biological diagrams with correct drawing style and labeling

**Course language:** This course is taught completely in English. Students will need to have a good level of English to read and understand the contents and to complete the assignments. All lectures, lessons, instructions, homework, and exams are in English only.

**Course format:** This course will involve the use of Lectures, Video & Audio each week through Canvas

**Competencies:** Communicative, Self-directed learning, Specialty

**Course guidelines, requirements, and expectations:** All students must;

- use the required text/material and download or prepare any other materials required by the teacher.
- act respectfully and courteously in the classroom environment.
- attend and participate actively in all classes. Students will have a total of 7 days to participate in discussions after they are opened.
- complete all required readings, assignments, and exams

Required texts/materials:

None – all texts and materials will be provided online by the Professor.

Students must have access to a reliable computer with an internet connection, google chrome, video, and sound.

Course website: <https://canvas.suwon.ac.kr/>

### **Course policies:**

Attendance:

- Students must attend class, access all the course materials online and participate in the mandatory discussion forum and homework assignments each week, in order to be deemed 'present' - The mandatory discussion forum will be outlined at the beginning of each week Lateness:

- Late submission of weekly assignments/quizzes or late participation will not be accepted. The score for that week's assignment and participation will be marked as 0.

Assessment:

- Failure to attend the midterm or final paper exam will result in an F for the class - Cheating or plagiarizing is not tolerated and will result in an automatic F.

Mid-term and Final:

- Mid-term and Final assessments will take place through an online exam.

Participation:

- To gain participation points, students must complete all of the following:
  - Read the discussion article each week. Give a well-detailed response to the questions asked, including opinions and information/ideas to back it up.
  - Respond to at least two other students' posts.

- Attend Class each week

Grading:

- Weekly Quiz: 10% - Weekly Discussions: 30% - Participation: 20% -  
Midterm Exam : 20% - Final Exam: 20%

NOTE: As is required by the University of Suwon, this course is graded on a curve (relative grading). The curve is as follows: A0/A+ ≤ 30%, B0/B+ ≤ 40%, C0/C+/D0/D+/F ≥ 30%.

### **Weekly Schedule:**

Week 01 Introduction to the course, Syllabus, Introductory PPT Discussion  
- Introduce yourself

Week 02 Biology Basics PPT, Week 2 Quiz Discussion- Human Genome Editing

Week 03 Characteristics of Life PPT, Week 3 Quiz Discussion - Maximum Age Limit

Week 04 The Cell PPT Week 4 Quiz Discussion - Is genetically modified food safe?

Week 05 Cell Continuity PPT, Week 5 Quiz Discussion - Animal Testing

Week 06 Hereditary and Basic Genetics PPT, Week 6 Quiz Discussion - Genetic Testing and Insurance

Week 07 Review & Online Midterm Long Question

Week 08 Midterm Paper Exam

Week 09 Human Systems 1 – Circulatory System PPT, Week 9 Quiz Discussion - Should Marijuana be legalized for medical treatment?

Week 10 Human Systems 2 – Digestive System PPT, Week 10 Quiz Discussion - The Ethics of Organ Cloning

Week 11 Human Systems 3 – Respiratory System PPT, Week 11 Quiz Discussion - Anti-Vaccination Movement

Week 12 Plant Systems 1 – Circulatory System PPT, Week 12 Quiz Discussion - Alternative Medicine

Week 13 Plant Systems 2 – Respiratory System and Photosynthesis PPT, Week 13 Quiz Discussion - How much plastic surgery is too much?

Week 14 Plant Systems 3 – Reproductive System PPT, Week 14 Quiz

Discussion - Abortion

Week 15 Review & Online Final Long Question

Week 16 Final Paper Exam