MINISTRY OF EDUCATION AND TRAINING
CAN THO UNIVERSITY

SOCIALIST REPUBLIC OF VIETNAM
Independence - Freedom - Happiness

SUBJECT OUTLINE DETAILS

1. Subject: Organism and Population Lab. II

- **Code:** BS211C
- **Credits:** 1
- **Hours:** 30 practical hours, and 30 self-study hours.

2. Management Unit:

- **Department:** Biology
- **College:** College of Natural Sciences

3. Prerequisites: Cells and Molecules Lab. I (BC210C) and Organism and Population (BS111C)

4. Subject objectives:

4.1. Knowledge:

Students will develop knowledge, understanding and practical skills of:

4.1.1. plant form and function including body organization, reproduction and development of plant, and factors effect on plant growth.

4.1.2. animal form and function by examining the levels of organization in the animal body and the systems for coordinating the activities of distinct body parts.

4.1.3. an overview of plant and animal diversity.

4.2. Skill: students will be able to

4.2.1. develop a fundamental understanding of modern biological principles that will be the basis for subsequent courses in the biological sciences.

4.2.2. apply investigative and problem-solving skills.

4.2.3. work individually and in teams

4.3. Attitude:

4.3.1. Students must have a positively sense in the self-learning and prepairing before each session.

4.3.2. Students are encouraged to develop positive values and informed critical attitudes.

4.3.3. Students are aware of the importance of studying the general knowledge of biology to prepare for specialized subjects.

5. Brief description of subject content: This course will acquaint students with the body organization of organisms. Topic include the structure, functions and activities of plants and animals, the naming and classifying organisms. Student also get an overview on the diversity of organisms..

6. Subject content structure:

Contents	Hours	Objectives
Lesson 1. Plant tissue	**5**	- Stained tissue plant (stems and leaves) - Identify the type of plant tissue
Lesson 2. Structure of animal and plant cells; Embryonic development	**5**	- Understand the structure of animal and plant cells - Observed during periods of embryonic development in animals
Lesson 3. The Vertebrate: Organ systems	**5**	Knowing how animal anatomy and identify the organ systems of vertebrate animals
Lesson 4. Biodiversity of Plant	**5**	Dentify the types of roots, stems and leaves of plants
Lesson 5. Biodiversity of invertebrate	**5**	Understand the classification and evolution of invertebrate animals (low levels)
Lesson 6. Biodiversity of invertebrate (continue)	**5**	Understand the classification and evolution of invertebrate animals (high levels)

7. Teaching method:

- Introducing and explaining.
- Providing supplements, media resources.

8. Duties of student:

- Lecture/Class attendance: not allow to absent more than 20% of lectures.
- Lab. Attendance: mandatory.
- Discussion and homeworks: mandatory

9. Assessment of student learning outcomes:

9.1. Assessment

No.	Point components	Rules and Requirement	Weights
1	Midterm exam	Tests	10%
2	Final exam	Tests	90%

9.2. Grading

- Grading components and final test scores will be marked on a scale of 10 (0 to 10), rounded to one decimal place.
- Subject score is the sum of all the components of the evaluation multiplied by the corresponding weight. The subject score is marked on a scale of 10 and rounded to one decimal place, then is converted to A-B-C-D score and score on a scale of 4 under the academic provisions of the University.

10. Materials:

Materials information	Code number
[1] Jane B. Reece, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, Robert B. Jackson, 2011. Campbell Biology, 9ed. Pearson Education, Inc.	570/ C181
[2] Raven P.H, Johnson G.B, Mason K.A, Losos j.B, Singer S.R Biology, 9 ed. 2010 McGraw Hill, NewYork.	570/ R253
[3] Sylvia S. Mader.2010 Biology. McGraw Hill, New York	570/ M181

11. Self-study Guide:

Week	Content	Theory (hours)	Practice (hours)	Students' duties
1	**Lesson 1.** Plant tissue		2	Reading: [2] chapter 36 [3] chapter 24
2	**Lesson 2.** Structure of animal and plant cells; Embryonic development		2	Reading: [2] chapter 43 [3] chapter 31
3	**Lesson 3.** The Vertebrate: Organ systems		2	Reading: [2] chapter 44 [3] chapter 37
4	**Lesson 4.** Biodiversity of Plant		2	Reading: [2] chapter 31 [2] chapter 30 [3] chapter 22 [3] chapter 23
5	**Lesson 5.** Biodiversity of invertebrate		2	Reading: [2] chapter 32 [3] chapter 28,29
6	**Lesson 6.** Biodiversity of invertebrate (continue)		2	Reading: [2] chapter 32 [3] chapter 28,29
7	**Final exam**		3	Writting report

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ON BEHALF OF RECTOR
DEAN/ DIRECTOR

HEAD OF DEPARTMENT