

COURSE SYLABUS (Code: CN02301) GENERAL BIOCHEMISTRY

1. General information

Course: General Biochemistry (CN02301)

Credits: 2 (Lecture: 1.5 - Practice: 0.5 - Self-study: 6.0)

Training program: Animal Science (Option 1: Animal production & Health, Option 2: Animal nutrition & Feed technology)

2. Expected learning outcomes (ELOs)

Notation	Course expected learning outcomes After successfully completing this course, students are able to	Program expected learning outcomes
Knowledge		
K1	Apply the biochemical knowledge and metabolic regulation of living organisms to develop new specialized knowledge	ELO1: Apply the general knowledge of natural and social sciences and the understanding of contemporary issues to the field of livestock production
K2	Apply the role of substances in living organisms for specialized knowledge	ELO 2: Analyze factors affecting the animal breed production, nutrition, and animal health
Skills		
K3	Identify factors affecting metabolism in living organisms	ELO 5: Apply effectively creative and critical thinking, and problem-solved skills to scientific research and professional practice
K4	Show the biochemical reactions in organisms as well as nutrient requirement for animal through group discussion	ELO 6: Coordinate teamwork in professional activities to achieve objectives as a member or a manager
Ethics and attitudes		
K5	Compliance with the rules and regulations on safety while working in the laboratory	ELO 12: Comply with state law and specific regulations and professional ethics

3. Brief descriptions

Chapter 1: Protein

Chapter 2: Vitamins

Chapter 3: Enzyme

Chapter 4: Nucleci acids

Chapter 5: Metabolism of amino acid and protein

Chapter 6: Carbohydrate

Chapter 7: Lipids

Chapter 8: Metabolism and bioenergetics

4. Learning methods

- Students read the textbooks and references by themselves,
- Participate in class discussion
- Find references, discuss
- Practice
- E-learning: Find and look up references; do homework

5. Assessment methods

- Grading scale: 10
- Average point: is the sum of the rubric scores multiplied by the weight of each rubric
 - + Class participation: 10%
 - + Mid-term test: 30%
 - + Final examination: 60%

6. Student tasks

- Attendance: Students must attend at least 75% of the class and participate in class activities (discussion in class and on e-learning system, etc.)
- Practice: Students must attend all practice content
- Complete the mid-term test and the final examination.

7. Key academic staffs

Full name: Dang Thai Hai

Office address: VNUA

Email: dthai@vnua.edu.vn

Title: Assoc.Prof

Phone number: 0912795176

Website: <http://www.vnua.edu.vn/vie/>

Full name: Ngo Thi Thuy

Office address: VNUA

Email: thuynghoviet@vnua.edu.vn

Title: PhD.

Phone number:

Website: <http://www.vnua.edu.vn/vie/>

Full name: Bui Huy Doanh

Office address: VNUA

Email: bhdoanh@vnua.edu.vn

Title: PhD.

Phone number: 0984803818

Website: <http://www.vnua.edu.vn/vie/>

Full name: Dinh Thi Yen

Office address: VNUA

Email: dinhyen136@gmail.com

Title: Msc.

Phone number: 0942015296

Website: <http://www.vnua.edu.vn/vie/>

Communicate with key academic staffs: via email, phone and e-learning system.