

*Hanoi, June 2<sup>nd</sup>, 2017*

**DECISION**

**Issuing Objectives – Curricula – Plans of undergraduate educational programs  
of the Vietnam National University of Agriculture**

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**THE PRESIDENT OF VIETNAM NATIONAL UNIVERSITY OF AGRICULTURE**

Pursuant to the Decision No. 441/QĐ-TTg dated March 28<sup>th</sup>, 2014 by Prime Minister on establishment of Vietnam National University of Agriculture on basis of re-organizing Hanoi University of Agriculture;

Pursuant to the University Charter issued with the Decision No. 70/2014/QĐ-TTg dated December 10<sup>th</sup>, 2014 by Prime Minister;

Pursuant to the Decision No. 873/QĐ-TTg dated June 17<sup>th</sup>, 2015 by Prime Minister on approving the pilot project to renew the operation mechanism of the Vietnam National University of Agriculture in the period 2015 - 2017;

Pursuant to the Decision No. 1026/QĐ-BNN-TCCB dated May 13<sup>rd</sup>, 2014 by Minister of Ministry of Agriculture and Rural Development on defining the functions, tasks, powers and organizational structure of the Vietnam National University of Agriculture;

Pursuant to the Decision No. 17/VBHN-BGDĐT dated May 15<sup>th</sup>, 2014 by Ministry of Education and Training on promulgating the regulation on formal university and college training according to the credit system;

Pursuant to the Circular No. 07/2015/TT-BGDĐT dated April 16<sup>th</sup>, 2015 by Minister of Ministry of Education and Training on promulgating the regulation on the minimum amount of knowledge, the requirements on competence that learners can achieve after graduation for each training level of higher education and the process of formulating, appraising and promulgating training programs at university, master and doctoral levels;

Pursuant to the meeting conclusion dated May 25<sup>th</sup>, 2017 of the Science and Training Council of the Vietnam National University of Agriculture;

At the proposal of the Director of Training Management Office and the Deans of faculties.

**DECIDE:**

**Article 1:** Issue the Objectives - Curricula - Plans of undergraduate educational programs (attached list) of the Vietnam National University of Agriculture

**Article 2:** The programs is applied from the K62 (admission year 2017), equivalent to the enrollment of the K62 cohort.

**Article 3:** Director of Training Management Office, Deans of relevant faculties and individuals are responsible for the implementation of this Decision./.

**Destination:**

- As the Article 3;
- Stored: Archive, TMO (5).

**ON BEHALF OF THE PRESIDENT**

**VICE PRESIDENT**

(Signed & Sealed)

**Nguyen Xuan Trach**

**LIST OF UNDERGRADUATE EDUCATIONAL PROGRAMS  
OF VIETNAM NATIONAL UNIVERSITY OF AGRICULTURE**  
(Issued under Decision No. 1748/QĐ-HVN dated June 2<sup>nd</sup>, 2017)

No	Educational programs	Sub-major/Options
1	Mechanical Engineering	Agricultural Engineering
		Vehicle and energy engineering
		Machine manufacturing engineering
		Food processing mechanical engineering
2	Electrical engineering	Electric power system
		Automation engineering
3	Rural industry and works	Infrastructure engineering
		Construction works engineering
4	Information technology	Information technology
		Software technology
		Information system
5	Crop science	Crop science
		Plant breeding
		Medicinal plants
6	Plant protection	Plant protection
7	Biotechnology	Biotechnology
8	Environment science	Environment science
9	Animal science	Animal nutrition and Feed technology
		Animal production and Health
10	Veterinary medicine	Veterinary medicine
11	Agricultural economics	Agricultural economic
		Economics and Natural Resources and Environmental Management
12	Rural Development	Rural Development
13	Economics	Economics
		Development economics
		Economics management
		Planning and investment
		Investment economics
	Financial economics	
14	Sociology	Sociology
15	Horticulture and landscape design	Urban agriculture
16	High tech agriculture	High tech agriculture

# EDUCATIONAL PROGRAM OBJECTIVES AND EXPECTED LEARNING OUTCOMES

## PROGRAM FOR UNDERGRADUATE PROGRAM TITLE: ANIMAL SCIENCE PROGRAM CODE: 7620105

(According to the Decision's No. 1748/QĐ-HVN dated June 02<sup>nd</sup> 2017)

### Option 1: Animal Production and Health Option 2: Animal Nutrition and Feed Technology

#### 1. Program Objectives (POs)

For the first few years after graduation, graduates can:

##### ***PO1: Specialised skills and professional attitude***

Work as technical consultants, extension workers, business people, and managers in livestock production with ethical and professional manners.

##### ***PO2: Development of livestock sector and international integration***

Pursue lifelong learning and scientific research to create knowledge and solutions for livestock production in the era of global integration.

##### ***PO3: Social responsibilities***

Perform animal production techniques and health care for the sustainable development of livestock production with whole hearted responsibility.

#### 2. Expected Learning Outcomes (ELOs)

After completing the program, students can:

##### ***2.1. Knowledge***

###### *General knowledge*

ELO1: **Apply** the general knowledge of natural and social sciences and the understanding of contemporary issues to the field of livestock production

###### *Professional knowledge*

ELO 2: **Analyze** factors affecting the animal breed production, nutrition, and animal health

ELO 3: **Evaluate** the efficiency of animal breed production, nutrition and animal health

ELO 4: **Design** livestock production programs to ensure sustainable development

##### ***2.2. Skills***

###### *General skills*

ELO 5: **Apply** effectively creative and critical thinking, and problem-solved skills to scientific research and professional practice

ELO 6: **Coordinate** teamwork in professional activities to achieve objectives as a member or a manager

ELO 7: **Communicate** effectively using multimedia, adapt well in multi-cultural environment; meet the required standards of English proficiency issued by Ministry of Education and Training

#### *Professional skills*

ELO 8: **Use** effectively the skills of surveying, collecting and processing data to serve scientific research, technology development and management of livestock production

ELO 9: **Apply** appropriate techniques, technologies and systems in sustainable livestock production

ELO 10: **Utilize** information technology and modern equipment in livestock industry to serve production and business to achieve objectives.

ELO 11: **Perform** properly the basic and intensive technical procedure in livestock production

#### **2.3 Attitude**

ELO 12: **Comply** with state law and specific regulations and professional ethics

ELO 13: **Demonstrate** responsibility to protect the environment, public health and respect animal welfare

ELO 14: **Perform the habits** of life-long learning

### **3. Career prospects**

Graduates of animal science can work in the position and work places as followings:

- Graduates can work as nutrient scientists, experts of animal breeding, feeding, and production managers
- Graduates can work as technicians in laboratories related to animal husbandry, especially in the field of animal genetic and breeding, artificial insemination and feed analysis.
- Graduates can work at government departments related to animal husbandry.
- Graduates can work as agricultural extension officers.
- Graduates can work as researchers at universities/research institutes
- Graduates can be the owner of animal farms, companies or private enterprises in the field of animal husbandry.

### **4. Post-graduate study opportunities**

- The student graduated from the Animal Science bachelor program can continue to study and research at master and doctoral levels in Animal Science and other related fields such as Animal Science and Veterinary Medicine, Animal nutrition and Feed Technology in Vietnam and abroad.
- Self-study to improve the professional knowledge and to fulfill the requirements of changing jobs.

### **5. Curriculums, documents, international standards used as references**

ABET accreditation;

ELOs of Bachelor of Animal Science, Can Tho University - Vietnam (CTU);

ELOs of Bachelor of Animal Science, Wageningen University - Netherlands (WUR);

ELOs of Bachelor of Animal Science, Iowa State University - USA (ISU).