



THAI NGUYEN UNIVERSITY OF AGRICULTURE AND FORESTRY
 Quyet Thang Commune, Thai Nguyen City, Viet Nam
 Tel: +842086275999 * Fax: +842082490866 * Email: dhnl@tuaf.edu.vn

MASTER'S DEGREE IN BIOTECHNOLOGY

1. Introduction

The training program aims to provide learners with in-depth knowledge of biotechnology, improve research ability in specialized fields such as genetic technology, molecular animal technology, molecular plant environmental biotechnology in order to create highly qualified scientists who can work in research, management, teaching; meet the demands of socio-economic development, development of technology and science of the country.

2. Curriculum

KNOWLEDGE BLOCK			CREDITS		PERCENTAGE (%)
General	Philosophy		3	8	13,33
	English		5		
Basic professional and Professional	Basic professional	Compulsory	15	61,67	61,67
		Optional	6		
	Professional	Compulsory	10		
		Optional	6		
GRADUATION THESIS			15		25,00
TOTAL			60		100,00

COURSES

Course code		Course's name	Credits
Letter part	Number part		
I. General knowledge block (2 subjects)			
PHI	831	Philosophy	3
ENG	851	English	5
II.1. Basic professional knowledge block			



THAI NGUYEN UNIVERSITY OF AGRICULTURE AND FORESTRY
 Quyet Thang Commune, Thai Nguyen City, Viet Nam
 Tel: +842086275999 * Fax: +842082490866 * Email: dhnl@tuaf.edu.vn

A. Compulsory courses (15 credits)			
SDB	803	Statistics and Data Processing in Biotechnology	2
MBC	804	Advanced Molecular Biology	3
IMM	805	Advanced Molecular and Cellular Immunology	3
ABC	806	Advanced Biochemistry	3
DRT	807	DNA Recombinant technology	2
ABI	808	Applied Bioinformatics	2
B. Optional courses: (6 credits)			
AGS	821	Agricultural system	2
PPM	821	Project Establishment and Management	2
OAF	821	Organic Agriculture	2
FSH	821	Food safety and Hygien	2
REB	821	Animal Waste and Environment Management	2
OHE	821	One Health in Biotechnology	2
IMM	821	Veterinary Immunology	2
BIT	821	Application of Biotechnology in Animal Husbandary and veterinary medicine	2
DSA	821	Zoonosis	2
IDF	821	Forest Health (Pest and Disease) management	2
VES	821	Forest Environmental Service Valuation	2
SOF	821	Social Foresrty	2
EPC	809	Independent DNA sequence Genetics	2
CIS	810	Scientific Information protection.and transferation	2
POT	821	Proteomics	2
CNT	821	Genetic Bioinformatics	2
II.2. Professional knowledge block			



THAI NGUYEN UNIVERSITY OF AGRICULTURE AND FORESTRY

Quyet Thang Commune, Thai Nguyen City, Viet Nam

Tel: +842086275999 * Fax: +842082490866 * Email: dhnl@tuaf.edu.vn

A. Compulsory courses (10 credits)			
FBI	814	Food Biotechnology	2
MBI	815	Biotechnology in Pharmacy and Medicine	2
PBI	816	Biotechnology in Agronomy	2
HBI	817	Biotechnology in Animal Husbandary and Veterinary Medicine	2
EBI	818	Biotechnology in Environment	2
B. Optional courses (6 credits)			
FOT	821	Vegetable, Flower production technology	2
CRSC	821	Integrated Crop Management (ICM)	2
HTC	821	Applications of high-tech in Agronomy	2
RET	821	Reproductive Technology	2
GFP	821	Grassland and forage plants	2
ANW	821	Animal Welfare	2
VHI	821	Animal Products Inspection	2
EPI	821	Veterinary Epidemiology	2
ZON	821	Wildlife Diseases	2
FDP	821	Forest development and planning	2
MPR	821	Forest marketing and Harvesting	2
CDM	821	Medical Plant Preservation and Development	2
MAP	819	Animal Molecular Pathology	2
MPP	820	Plant Molecular Pathology	2
FBT	821	Metabolic Compounds Manufacturing Fermentation Technology	
III. Graduate thesis			16
IV. Total credits			60



THAI NGUYEN UNIVERSITY OF AGRICULTURE AND FORESTRY
Quiet Thang Commune, Thai Nguyen City, Viet Nam
Tel: +842086275999 * Fax: +842082490866 * Email: dhnl@tuaf.edu.vn