

BACHELOR PROGRAM IN BIOTECHNOLOGY

Number of credits required: 130

Semester	Code	Subject	Number of credit
1 (17 credits)		Core subjects	13
		Fundamental principles of Marxism-Leninism 1	2
		Foreign Language 1	3
		Algebra B	2
		General Chemistry	3
		General Informatics	3
		Physical Education 1	2
		Military education and training 1	3
		Elective subjects	4
		Communication Skills	2
		Fundamentals of Psychology	2
		Fundamentals of Vietnamese Culture	2
		Fundamentals of Legislation	2
		Writing Documents in Vietnamese	2
		Introduction to Psychology	2
2 (18 credits)		Core subjects	18
		Fundamental principles of Marxism-Leninism 2	3
		Foreign Language 2	4
		Analysis B	3
		General Physics B	3
		General Biology	2
		Analytical Chemistry	3
		Physical Education 2&3	4
		Military education and training 2	3
3 (16 credits)		Core subjects	14
		Ho Chi Minh's Ideology	2
		Probability and Statistics	3
		Cytology	3
		Genetics	2
		Biochemistry	4
	Military education and training 3	2	

		Elective subjects	2
		Organic Chemistry	2
		Physical and Colloidal Chemistry	2
4 (16 credits)		Core subjects	14
		Revolutionary strategies of Vietnam Communist Party	3
		Microbiology	4
		Plant Physiology	4
		Human and Animal Physiology	3
		Elective subjects	2
		Principles in creature classification	2
		Physical biology	2
5 (17 credits)		Core subjects	15
		Management Theory	2
		Molecular Biology	4
		Research Methodology	2
		Biotechnology Equipment and Processes	3
		Immunology	4
		Elective subjects	2
		Biological Safety	2
		Marketing of biotechnology products	2
6 (18 credits)		Core subjects	15
		Microbiological Technology	4
		Animal Biotechnology	4
		Plant Biotechnology	4
		Gene Technology	3
		Elective subjects	3
		Bioinformatics	3
		Biodiversity	3
7 (18 credits)		Core subjects	12
		Enzyme - Protein Engineering	3
		Fermentation Technology	3
		Marine Biopolymers	3
		Mushroom Culture Technique	3
		Elective subjects group 1	6
		Probiotic Technology	2
		Marine Biotechnology	2

		Food Flavors and Colors Production Technology	2
		Production of Plant Secondary Metabolites	2
		Biotechnology for Food Preservation and Processing	2
		Environmental Biotechnology	2
8 (10 credits)		Core subjects	4
		Field Trips (12 weeks)	4
		Core subjects group 2	6
		Virology	3
		Fishery Pathology	3
		Vaccine Production Technology	3
		Antibiotic and Vitamin Production Technology	3

Note: Students who have enough conditions and can receive a final thesis will not study subjects in the 8th semester.