

Ministry Of Education And Science Of Ukraine
Higher Educational Establishment Of Ukroospilka
«Poltava University Of Economics And Trade»



**POLTAVA UNIVERSITY OF
ECONOMICS AND TRADE**

EDUCATIONAL - PROFESSIONAL PROGRAM

The first (Bachelor) level of higher education

Field of knowledge:

16 Chemical and Biological Engineering

Specialty

162 Biotechnology and Bioengineering

Educational program «Biotechnology»

Qualification:

Bachelor in Biotechnology and Bioengineering

Poltava 2018

General characteristics

Level of higher education	First (Bachelor) level
Degree in Higher Education	Bachelor's Degree
Field of Knowledge	16 Chemical and Biological Engineering
Specialty	162 Biotechnology and Bioengineering
Educational program	Biotechnology
Restrictions on Learning	No restriction
Educational qualification	Bachelor in Biotechnology and Bioengineering
Requirements for the individual's level of education to study under this program	Complete secondary education
Description of the subject area	<p>Theoretical content of the subject area: includes fundamental and applied scientific bases of industrial use of biosynthetic potential of living objects for obtaining practically valuable products.</p> <p>Methods, techniques and technologies: chemical, physico-chemical, biochemical, microbiological. genetic research methods, information and computer technology</p> <p>Tools and equipment: used for the analysis of biological agents and their metabolic products; equipment for cultivating biological agents, selecting and purifying target products; means of automation and automation systems for biotechnological production.</p>

Academic rights of the graduates

Continuation of education on the second (Master's level of higher education).

Employment of graduates

Specialist is prepared to work in the chemical and bioengineering industries and is able to perform the specified professional work under the International Standard Classification of Occupations 2008 (ISCO-08):

3141 Life science technician;

3257 Product safety inspector;

7511 Butchers, Fishmongers and Related Food Preparers;

7512 Bakers, Pastry-cooks and Confectionery Makers;

7513 Dairy Products Makers

ECTS credits needed to obtain a corresponding degree of higher education

The volume of the bachelor's educational program on the basis of complete general education:

- 240 ECTS credits;
- 35% minimum of the education program aimed at providing general and special (professional) competencies in the specialty defined by the higher education standard.

List of educational disciplines of the preessional–educational program by the training cycles

Nº	Name of the discipline	Hours/Credits
1	Practical psychology	90/3
2	History and Culture of Ukraine	90/3
3	Foreign Language (for Professional Purposes)	90/3
4	Physical Education	120/4
5	Sociology and bases of the applied researches	90/3
6	Ukrainian Language (for Professional Purposes)	90/3
7	Philosophy	90/3
8	Bioinformatics	90/3
9	Higher and Applied Mathematics	90/3
10	Physics	90/3
11	Chemistry: inorganic and organic	180/6
12	Chemistry: analytical, physical, colloid	180/6
13	Biochemistry	90/3
14	Health Safety. Principles of Health Safety	90/3
15	Genetics	240/8
16	Cell Biology	210/7
17	General Biology	360/12

Nº	Name of the discipline	Hours/Credits
18	Mycology	180/6
19	General Microbiology and Virology	150/5
20	Processes and Apparatus for Biotech Industries	150/5
21	Biotechnology and health of man	120/4
22	General Biotechnology	180/6
23	Biotechnology	120/4
24	Control and Management of Biotechnological Processes	150/5
25	Designing Biotech Industries	225/7,5
26	Principles of Crop and Livestock	210/7
27	Sensory Analysis	210/7
28	Bioethics	180/6
29	Bases of rational consumption of commodities	180/6
30	Fundamentals of Leadership	90/3
31	Fundamentals of Nutritionology	120/4
32	Organic products and eco products	240/8
33	Pharmacognosy	120/4

Nº	Name of the discipline	Hours/Credits
34	Instrumental biotechnology	120/4
35	Economics and organization of biotechnology production	90/3
36	Standardization and certification of goods and services	90/3
37	Expert research in biotechnology	225/7,5
38	Biotechnology of Cells and Tissues	150/5
39	Biotechnology of the environment	135/4,5
40	Protection of goods from binomial damage	150/5
41	National and international food security regulation	150/5
42	Practical: University Education	30/1
43	Specialized Practical Training	900/30
44	Bachelor graduation work	255/8,5
Total hours of training		7200/240

CONTACTS

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