

Medical Chemistry

Medical Chemistry as an Educational Discipline:

- is based on students' study of bioorganic chemistry, biophysics, medical biology and integrates with these disciplines;
- b) lay the foundations for students to study physiology, biological chemistry, general and molecular pharmacology and toxicology, hygiene disciplines.

The organization of the educational process is carried out according to the credit-module system in accordance with the requirements of the Bologna Process. The program of discipline is structured on a module, which consists of blocks of content modules. Students' academic load is described in credits ECTS - credit credits, which are enrolled to students with the successful mastering of their modules (credit credits).

The discipline is structured on 2 modules:

Module 1. Acid-basic equilibrium and complex formation in biological fluids. Content modules: 1. Solutions. Properties of solutions. Chemistry of biogenic elements. Complex formation in biological fluids 2. Acid-basic equilibrium in biological fluids

Module 2. Equilibrium in biological systems at the interface between phases Content modules: 3. Thermodynamic and kinetic regularities of processes and electrokinetic phenomena in biological systems. 4. Physical chemistry of surface phenomena. Lyophobic and lyophilic disperse systems

Students in practical classes draw up protocols of conducted studies, which indicate the purpose of the experiment and briefly describe the progress of work, research findings and conclusions.

Assimilated topics are monitored in practical classes in accordance with specific goals, assimilation of content modules - in practical final classes. The control of the level of students' training is carried out with the use of such tools: test tasks, solving situational tasks, conducting laboratory studies and interpreting and evaluating their results, controlling practical skills. The final control of mastering the modules as a whole is carried out upon completion. Assessment of the student's progress in the discipline is a rating and is displayed on a 200-point scale as an average arithmetic estimation of the acquisition of the relevant modules and has a definition based on the ECTS system and the scale adopted in Ukraine.