

Organic Chemistry

Far Eastern Federal University

Degree or qualification is awarded: **Candidate of Sciences**

Language of study: **Russian**

Mode of study: **full-time**

Duration: **4 years**

Availability of free education: **yes**

Price: **320 000 rub per year**

Programme webpage at the university website:

<https://www.dvfu.ru/upload/medialibrary/a06/%D0%9F%D0%B5%D1%80%D0%B5%D1%87%D0%B5%D0%BD%D1%8C%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%20%D0%B0%D1%81%D0%BF%D0%B8%D1%80%D0%B0%D0%BD%D1%82%D1%83%D1%80%D1%8B,%20%D0%BE%D0%B1%D1%8A%D1%8F%D0%B2%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D1%85%20%D0%B2%20%D0%BD%D0%B0%D0%B1%D0%BE%D1%80%202020%20%D0%B3%D0%BE%D0%B4%D0%B0.pdf>

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The purpose of the educational program is to acquire the level of competencies necessary for the implementation of professional activities and preparation for the defense of a scientific and qualifying work (dissertation) for the degree of candidate of sciences.

Objectives of the main educational program

- formation of skills for independent research and teaching in the field of organic and medicinal chemistry, the ability to obtain scientific results that meet the established requirements for the content of dissertations for the degree of candidate of sciences in the specialty (focus) 02.00.03 Organic chemistry
- in-depth study of the theoretical and methodological foundations of chemical sciences; primarily in the field of organic synthesis, physicochemical methods for studying molecules, establishing the structure-property relationship.
- improving philosophical education, including focused on professional activities in the field of organic chemistry;
- improving knowledge of a foreign language, including for use in professional activities (publications, professional contacts) in the field of organic chemistry.
- the ability to professionally operate modern research equipment and instruments required for research in the field of organic chemistry.

The ability to professionally present the results of one's research and present them in the form of scientific publications in authoritative domestic and international publications and presentations at scientific conferences on chemical topics. The area of professional activity of graduates who have mastered the postgraduate program includes the spheres of science, science-intensive technologies and chemical education, covering a set of tasks in theoretical and applied chemistry (in accordance with the focus of training in organic chemistry), as well as related natural science disciplines.

The objects of professional activity of graduates who have mastered the postgraduate program are new substances with desired properties, chemical processes and general patterns of their course, scientific problems of an interdisciplinary nature.

The types of professional activities for which graduates who have mastered the postgraduate program are preparing:
research activities in the field of chemistry and related sciences;

teaching activities in the field of chemistry and related sciences.

The postgraduate program is aimed at mastering all types of professional activities for which the graduate is preparing.

The choice of training courses "Problems of Modern Organic Chemistry" "Chemistry of Carbonyl Compounds", "Organic Chemistry", "Physicochemical Methods of Investigation of Organic Molecules" for graduate students is due to the topic of the Department of Organic Chemistry, FEFU, which successfully works on the topic "Development of fine organic synthesis and the search for active and practically important substances based on carbonyl and methylene active compounds ". In recent years, the department has been successfully developing a new topic "Targeted synthesis of compounds - analogues of marine alkaloids". These topics are at the heart of students' qualification papers, master's and doctoral theses.

The above disciplines allow you to master the theory and skills of practical work in the chosen field of chemistry (in accordance with the topic of the candidate dissertation); contribute to the development of the ability to analyze scientific literature in order to choose the direction of research on the topic proposed by the supervisor and independently draw up a research plan); develop the ability to analyze the results obtained, draw the necessary conclusions and formulate proposals, the ability to present the results obtained in research in the form of reports and scientific publications (poster presentations, abstracts and articles in scientific periodicals; the ability to work in a scientific team.

The prospects for employment of graduates are high, they are in demand in academic institutes, in the departments of chemistry of universities, in departmental and factory laboratories, both in the Far East of Russia and abroad.

Period of study: full time – 4 years

Specializations within this programme