

List of components of the educational and professional program and their logical sequence

| Code | Components of the educational program (study subjects, course projects (works), practices, qualification work) | Number of credits | Final control form |
|--|--|-------------------|--------------------|
| 1. Mandatory components of the Educational and Scientific Program | | | |
| 1.1. Cycle of general scientific training | | | |
| MC 1 | Philosophy of science | 4 | Exam |
| MC 2 | Foreign language by professional direction | 6 | Exam |
| MC 3 | Pedagogy and management of institutions of higher education | 4 | Exam |
| 1.2. Cycle of special (professional) training | | | |
| MC 4 | Computer information processing and mathematical modeling | 3 | Exam |
| MC 5 | Research methodology and organization of dissertation preparation | 4 | Exam |
| MC 6 | General, inorganic and analytical chemistry: current state and problematic issues | 5 | Exam |
| MC 7 | Pedagogical (assistant) practice | 4 | Test |
| Total amount of mandatory components | | 30 | |
| 2. Selective components of educational-scientific components | | | |
| SC 1 | Special workshop on analytical research of chemical objects | 5 | Exam |
| SC 2 | Special workshop on analytical studies of biogeochemical objects of the environment | 5 | Exam |
| SC 3 | Assessment of water quality for irrigation, animal watering, fish farming and processing and food industry | 5 | Exam |
| SC 4 | Patent science and invention | 5 | Exam |
| SC 5 | Ecological safety | 5 | Exam |
| SC 6 | Peculiarities of the formation of errors in the assessment of environmental safety of environmental objects | 5 | Exam |
| SC 7 | Bioconversion of agricultural waste | 5 | Exam |
| SC 8 | Agrochemicals in the environment | 5 | Exam |
| SC 9 | Biogeochemical cycles of metals-microelements | 5 | Exam |
| The total amount of selective components | | 10 | |
| GENERAL SCOPE OF THE EDUCATIONAL AND SCIENTIFIC PROGRAM | | 40 | |