

# CHEMISTRY

(course title)

## COURSE SYLLABUS ABSTRACT

1-70 02 01 Industrial and civil construction

	Form of higher education		
	Ochnaya	Zaohnaya	Zaohnaya (sokrashchennaya)
Year	1	1	1
Semester	1	2	1
Lectures, hours	34	14	2
Practical classes (seminars), hours	34	6	4
Laboratory classes, hours	16	-	-
In-class test (semester, hours)	1	2	1
Course paper, semester	84	20	6
Course project, semester	60	124	138
Pass/fail, semester	144/4	144/4	144/4

### 1. Course outline

The discipline belongs to the module "Natural sciences" (state component). The list of academic disciplines (cycles of disciplines) that will be based on this discipline:

- road building materials and products

### 2. Course learning outcomes

Upon completion of the course, students will be expected to know:

- the basic concepts and laws of chemistry;
- basic patterns of chemical reactions; basic electrochemical processes, the phenomenon of metal corrosion, the process and laws of electrolysis;
- the latest achievements in the field of chemistry and prospects for their use.

be able to:

- formulate and apply the basic laws, principles and concepts of chemistry in accordance with the program;

possess:

- have the skills to perform basic chemical laboratory operations

### 3. Competencies

Apply knowledge of natural science disciplines for experimental and theoretical study, analysis and solution of applied and engineering problems

### 4. Requirements and forms of midcourse evaluation and summative assessment

To assess the level of knowledge of students, the following diagnostic tools are used:

- oral and written questioning during practical classes; carrying out control works (test tasks) on separate topics, protection of laboratory works.