

The name of the academic discipline:
“Modern methods of obtaining and analyzing substances”

Specialty code and name	1- 02 04 01 Biology and Chemistry
Year of study	4
Semester of study	7
Number of in-class academic hours:	72
Lectures	20
Seminar classes	8
Practical classes	12
Laboratory classes	32
Form of the current assessment (<i>credit/ graded credit /exam</i>)	credit
Number of credit points	4
Competences	Mastering the academic discipline “Modern methods of obtaining and analyzing substances” should ensure the formation of specialized competencies: explaining the methods of obtaining chemical substances, the technique of analyzing chemical substances using modern physical and chemical methods of analysis
<p style="text-align: center;">Summary of the academic discipline:</p> <p>The academic discipline “Modern methods of obtaining and analyzing substances” is the final discipline and is based on the knowledge obtained as a result of studying the following chemical disciplines: “General and Inorganic Chemistry”, “Analytical Chemistry”, “Organic Chemistry”, “Biological Chemistry” and “Methodology of Teaching Chemistry”, as well as a number of biological disciplines, which contributes to the assimilation and deep understanding of the physicochemical essence of the material presented and the establishment of interdisciplinary connections. By forming a holistic perception of the entire complex of chemical disciplines using previously acquired knowledge, students acquire the skills of planning and implementing a multi-stage synthesis of the main classes of inorganic and organic substances, monitoring chemical processes, isolating and purifying intermediate and target products, as well as performing substance analysis using physicochemical methods.</p>	