

## COURSE SUMMARY

### POLITICS IN THE MODERN WORLD

Universal elective is intended for students of all training areas and specialties of PSU. The discipline "Politics in the Modern World" aims to form students' knowledge about the world of politics in a variety of historical and cultural contexts, as well as the ability to orient in the political and politico-cultural diversity of the modern world in the context of its politico-historical development.

**1. The purpose of the course:** to form in students a holistic understanding of the modern world of politics and the ways of its knowledge.

**2. The place of the course in the structure of the educational program:** included in the part formed by participants of educational relations of the curriculum.

**3. Planned learning results:** The study of the discipline is aimed at forming the following general skills (GS) and their indicators:

<i>Skill code</i>	<i>Content of the skill</i>	<i>Indicators of mastered skill</i>	<i>Planned results</i>
GS-5 (for bachelor's degree courses)	Is able to perceive the intercultural diversity of society in socio-historical and philosophical contexts	GS-5.1 (GS-4.1) Orientates in the cultural diversity of the modern world in the context of its historical development	Has an understanding of politics as a sphere of modern social life; Knows the political, cultural, ideological, value and institutional peculiarities of the formation of politics in the modern world; Has an understanding of the conceptual and categorical apparatus of political science as a science that studies politics.
GS-4 (for specialties)	Is able to analyse and take into account the diversity of cultures in their socio-historical and philosophical dimensions in the process of social interaction		

**4. Course capacity:** 108 hours (3 credits).

**5. Course author:** Natalia Belyaeva, PhD in Political Sciences, Associate Professor at the Department of Political Science.

## COURSE SUMMARY

### ENGLISH FOR PUBLIC SPEAKING

This general optional course is for students of all areas of training and specialties at PSU. It involves all aspects of the English language related to public speaking.

The course comprises 3 MODULES: public speaking skills, preparation for presentation in public and presentation visualization.

The first Module is an introduction to the topic of public speaking.

The second Module examines the three stages of the presentation.

The third Module deals with a presentation development and design.

**1. The purpose of the course:** to develop students' communicative competence in English (with an emphasis on improving auditory skills, listening and speaking skills).

**2. The place of the course in the structure of the educational program:** it is included in the part developed by the parties of the educational process in the curriculum.

**3. Planned learning results.** The discipline is aimed at the development of the following general skills (GS) and their indicators:

<i>Skill code</i>	<i>Content of the skill</i>	<i>Indicators of mastered skill</i>	<i>Planned results</i>
GS-4 (for bachelor's degree courses) GS-3 – for specialists	Student is able to carry out business communication in Russian and a foreign language in oral and written forms	Student is able to correctly and argumentatively develop oral and written speech in Russian and English.	Student will know the basic lexical units on the topic; be able to correctly and argumentatively build oral and written speech in Russian and English, perform the basic techniques of argumentation and develop a competent speech in oral and written forms.

**4. Course capacity:** 108 hours (3 credits).

**5. Course author** - Konstantin Klochko, PhD in Philology, Associate Professor of the Department of English and Intercultural Communication

## COURSE SUMMARY

### ENGLISH FOR EFFECTIVE COMMUNICATION

In the modern world knowledge of English becomes an indispensable condition for a successful career in almost all spheres of professional activity and full-fledged communication with representatives of different cultures in everyday life.

The universal elective on the discipline is addressed to students of all areas of training and specialties of PSU and it is aimed at preparing students for communicating in English, both in oral and written forms in the situations of business and everyday communication. It implies the formation of skills in receptive (reading, listening) and productive (speaking, writing) types of speech activities and translation.

**1. The purpose of the course:** the formation of intercultural foreign language communicative competence among students.

**2. The place of the course in the structure of the educational program:** it is included in the part formed by the participants of the educational relations of the curriculum.

**3. Planned learning results.** The study of the discipline is aimed at the formation of the following general skills (GS) and their indicators:

<i>Skill code</i>	<i>Content of the skill</i>	<i>Indicators of mastered skill</i>	<i>Planned results</i>
GS-4 (for bachelor's degree courses)  GS-3 (for specialties)	Able to carry out business communication in Russian and foreign languages in oral and written forms	GS-4.1 (3.1) Carries out business communication, makes an oral and written speech in Russian and foreign languages competently and reasonably	Knows the basic vocabulary and grammar of the English language at the level sufficient for the implementation of business communication. Knows how to make an oral and written speech competently. Possesses monologic and dialogic skills, the skills of negotiating with foreign partners.

**4. Course capacity:** 108 hours (3 credits).

**5. Course developer** - Konstantin Klochko, PhD in Philology, Associate Professor of the Department of English Language and Intercultural Communication

## COURSE SUMMARY

### EMOTIONAL INTELLIGENCE IN PROFESSIONAL ACTIVITY

In the conditions of constant professional communication, it is necessary to constructively manage your own and other people's emotions. The emerging communication difficulties prevent the effective solution of professional tasks. This increases the importance of mindfulness of emotions, self-management, and correct management of another people's behavior. It is required the development of emotional intelligence ("emotional coaching"), that is, empathy, emotional self-regulation, respect for one's own and others' borders, and resolution of emotionally stressful situations. Therefore, today the coefficient of emotional intelligence is one of the ways to predict effective professional activity. Emotional intelligence in professional activity should be considered, first of all, as a practical technology for turning emotions into a manageable resource that will allow you to achieve personal and professional success. The universal elective for the discipline is addressed to students of all areas of training and specialties of PSU.

**1. The purpose of the course:** the study of emotional intelligence as a technology for improving the efficiency of professional activity; obtaining knowledge about the mechanisms of emotional intelligence necessary for solving professional problems.

**2. The place of the course in the structure of the educational program:** it is included in the part formed by the participants of the educational relations of the curriculum.

**3. Planned learning results.** The study of the discipline is aimed at the formation of the following general skills (GS) and their indicators:

<i>Skill code</i>	<i>Content of the skill</i>	<i>Indicators of mastered skill</i>	<i>Planned results</i>
GS-6 (for bachelor's degree courses)  GS -5 (for specialties)	To be able to manage their resources, build and implement the trajectory of self-development	GS -6.1 (GS -5.1) Assesses your own resources (temporary, personal, psychological)	To know the essence of the concept of "resources". To be able to differentiate between temporary, personal, and psychological resources. To have the skills to evaluate your own time, personal, and psychological resources.
		GS -6.2 (GS -5.2) Manages its own resources (time management, stress management, self-presentation)	To know the technologies of time management, stress management, self-presentation. to be able to analyze your own resources. To master the skills of managing your own resources with the help of time management, stress management, and self-presentation technologies to achieve the goal.
		GS-6.3 (GS-5.3) Choose the direction of professional activity depending on their own interests, resources and	To know your own interests. To be able to evaluate your own resources and accumulated experience. To have the ability to choose the direction of professional activity depending on

		accumulated experience	their own interests, resources and accumulated experience.
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**4. Course capacity:** 108 hours (3 credits).

**5. Course author:** Ekaterina Ignatova, PhD in Psychology, Associate Professor of the Department of General and Clinical Psychology

**ANNOTATION**  
**program of discipline**  
**ARCTIC: CLIMATE AND WEATHER**

**1. The purpose of the development of the discipline**

The purpose of mastering the discipline is to prepare a graduate for solving problems in the operational and production sphere: to master the main features of the weather and climate of the Arctic region, methods of primary processing of operational hydrometeorological information, input quality control of data, to jointly analyze information and characteristics of hydrometeorological processes, to process, generalize stock hydrometeorological data using modern methods of analysis and computer technology, drawing up documentation and reporting on approved forms.

**2. Place of the discipline in the structure of the specialty program**

The place of the discipline in the structure of the educational program is determined by the curriculum.

The discipline «Arctic: climate and weather» refers to general professional electives.

Mastering the discipline is based on knowledge, abilities and skills formed in the process of studying Mathematics and Physics.

The discipline «Arctic: climate and weather» serves to familiarize with the main stages of the development of the network of hydrometeorological observations in the Arctic, research carried out in the Arctic, climatic and weather conditions of the Arctic region, to study the climate of the Arctic region and the peculiarities of its change, associated arising and possible consequences, learn to process primary hydrometeorological information, analyze time series and spatial information, acquire skills in the climatic description of the region, compilation and execution of reports and abstracts.

**3. Competence, formed as a result of the development of the discipline of «Arctic: climate and weather»**

The process of studying the discipline is aimed at forming the elements of the following competencies in accordance with the SEES:

Competency code	Content of competence in accordance with the SEES	Competence achievement indicators	Decomposition of competences (learning outcomes) in accordance with the indicators
OPIK.1	possess basic knowledge of the modern scientific picture of the world based on the provisions, laws and methods of mathematical and natural sciences	OPIK.1.1 Has an idea of the scientific picture of the world based on the provisions, laws and regularities of the natural sciences	<b>To know:</b> the main stages of the development of the hydrometeorological observation network in the Arctic, research carried out in the Arctic, climatic and weather conditions of the Arctic region, climate changes in the region and possible consequences, dangerous weather phenomena for aviation, systems that ensure navigation along the routes of the Northern Sea Route. <b>To be able:</b> process primary hydrometeorological information, analyze time series and spatial information. <b>To possess:</b> skills in the climatic description of the region, preparation and execution of reports and abstracts.

**4. Total workload of the course: 108 hours (3 credit points)**

**5. Developers:**

Kalinin Nikolay Aleksandrovich, Doctor of Geosciences, Head of the Department of Meteorology and Atmospheric Protection; Lukin Ilya Leonidovich, Senior Lecturer, Department of Meteorology and Atmosphere Protection.

**ANNOTATION**  
**program of discipline**  
**HUMAN GENETICS**

**1. The purpose of the development of the discipline**

The purpose of mastering the discipline is to deepen the students' knowledge system in the field of general genetics, one of the fundamental biological sciences. When studying the discipline, students get acquainted with the basic laws of heredity and human variability, gain knowledge about hereditary diseases, including mental illness and mastering the methods of genetic analysis.

**2. Place of the discipline in the structure of the specialty program**

The place of the discipline in the structure of the educational program is determined by the curriculum.

The discipline «Human genetics» refers to general professional electives.

Mastering the discipline is based on knowledge, abilities and skills formed in the process of studying Fundamentals of Biology and Ecology, Human Anatomy and physiology.

The discipline «Human Genetics» serves to familiarize with the human genome, its organization and implementation.

**3. Competence, formed as a result of the development of the discipline of «Human Genetics»**

The process of studying the discipline is aimed at forming the elements of the following competencies in accordance with the SEES:

Competency code	Content of competence in accordance with the SEES	Competence achievement indicators	Decomposition of competences (learning outcomes) in accordance with the indicators
ОПК.1	possess basic knowledge of the modern scientific picture of the world based on the provisions, laws and methods of mathematical and natural sciences	ОПК.1.1 Has an idea of the scientific picture of the world based on the provisions, laws and regularities of the natural sciences	<b>To know:</b> the main patterns of heredity and variability of a person, methods of studying human genetics. <b>To be able:</b> navigate the list of hereditary human diseases. <b>To possess:</b> the skills of some methods of genetic analysis.

**4. Total workload of the course: 108 hours (3 credit points)**

**5. Developer:**

Shibanova Natalya Vyacheslavovna, Candidate of Biological Sciences, Associate Professor of the Department of Botany and Plant Genetics

**ANNOTATION**  
**program of discipline**  
**MOLECLAR BASIS OF LIFE**

**1. The purpose of the development of the discipline**

The goal of mastering the discipline is to form a more complete understanding of the scientific picture of the world in students, an understanding of the principles of the molecular organization of living things: initial simplicity, molecular economy and molecular expediency, functionality and special purpose of biomolecules, to master basic knowledge of the molecular mechanisms of life, to understand the main properties of living things ( self-regulation, self-reproduction, the ability to extract and transform energy).

**2. Place of the discipline in the structure of the specialty program**

The place of the discipline in the structure of the educational program is determined by the curriculum.

The discipline «Molecular basis of life» refers to general professional electives.

Mastering the discipline is based on knowledge, abilities and skills formed in the process of studying Fundamentals of Biology and Ecology, Human Anatomy and physiology, Organic Chemistry.

The discipline «Molecular Basis of Life» serves as a deepening and supplement to the courses «Fundamentals of Biology and Ecology» and «Biochemistry».

**3. Competence, formed as a result of the development of the discipline of «Molecular Basis of Life»**

The process of studying the discipline is aimed at forming the elements of the following competencies in accordance with the SEES:

Competency code	Content of competence in accordance with the SEES	Competence achievement indicators	Decomposition of competences (learning outcomes) in accordance with the indicators
ОПК.1	possess basic knowledge of the modern scientific picture of the world based on the provisions, laws and methods of mathematical and natural sciences	ОПК.1.1 Has an idea of the scientific picture of the world based on the provisions, laws and regularities of the natural sciences	<b>To know:</b> the principles of the molecular organization of living things, the structure and function of the main cellular compounds (proteins, carbohydrates, lipids), the main provisions and methods of molecular biology. <b>To be able:</b> apply the principle of structural expediency.

**4. Total workload of the course: 108 hours (3 credit points)**

**5. Developer:**

Chudinova Larisa Alekseevna, Candidate of Biological Sciences, Associate Professor of the Department of Plant Physiology and Soil Ecology



**ANNOTATION**  
**program of discipline**  
**WATER CHEMISTRY**

**1. The purpose of the development of the discipline**

The purpose of mastering the discipline is to familiarize students with modern methods of calculating the composition and properties of water and industrial methods of water analysis, water purification and water treatment.

**2. Place of the discipline in the structure of the specialty program**

The place of the discipline in the structure of the educational program is determined by the curriculum.

The discipline «Water chemistry» refers to general professional electives.

Mastering the discipline is based on knowledge, abilities and skills formed in the process of studying Organic Chemistry, General Chemistry, Physical and Colloid Chemistry.

The discipline «Water Chemistry» introduces students to modern methods of industrial analysis of water and water treatment.

**3. Competence, formed as a result of the development of the discipline of «Water Chemistry»**

The process of studying the discipline is aimed at forming the elements of the following competencies in accordance with the SEES:

Competency code	Content of competence in accordance with the SEES	Competence achievement indicators	Decomposition of competences (learning outcomes) in accordance with the indicators
OIK.1	possess basic knowledge of the modern scientific picture of the world based on the provisions, laws and methods of mathematical and natural sciences	OIK.1.1 Has an idea of the scientific picture of the world based on the provisions, laws and regularities of the natural sciences	<b>To know:</b> classification of natural waters, ionic equilibria that form the composition of natural waters, the main methods of water treatment. <b>To be able:</b> to apply this knowledge in practice when calculating and interpreting the balance of the ionic composition of water. <b>To possess:</b> skills in calculating the ionic composition of waters.

**4. Total workload of the course: 108 hours (3 credit points)**

**5. Developer:**

Vasyanin A.N., Ph.D., Associate Professor of the Department of Analytical Chemistry and Expertise