

<b>Faculty</b>	<b>Subject of training</b>	<b>Period of training</b>	<b>Acquired knowledge and skills</b>
Faculty of Biology	Biology (Botany)	2 weeks (July)	The skills of identifying vascular plants using determinants of various types will be obtained, taxonomic diversity of the main families of the Belarusian flora (based on the Narochansk biological station or the Western Berezina HS, and with the availability of funding for natural areas) is studied.
		2 weeks (February)	Methods of studying chromosome numbers of flowering plants, skills of diagnostics of complex taxonomic groups of vascular plants (on the basis of the Department of Botany and Herbarium of BSU) will be mastered
	Biology Physiology Neurobiology	1-3 months	Methods of studying Electrophysiology
	Bioecology	2 months	Studying directions of matter and energy flows in aquatic ecosystems of different types; investigating the basic approaches and methods used in assessing the ecological metabolism of the aquatic environment; getting skills of assessing the sustainability of aquatic ecosystems by biodiversity indices.
	Animal Ecology; Ornithology	1 – 3 weeks (April -June)	Field methods of bird researches. Birdwatch in main natural landscapes of Belarus. Experience in field identification of vertebrates
	Cell biology	3 weeks	Patch-clamp electrophysiology with plant cells, epi-fluorescent microscopy, plant cell and tissues cultures.
Faculty of History	History, culture and traditions of Belarus	1 months	History, culture and traditions of Belarus. Teaching the basics of Russian, Belarusian languages
	Contemporary History of Russia and Belarusian statehood	3-4 weeks	Contemporary History of Russia and Belarusian statehood. Teaching the basics of Russian, Belarusian languages.
	Archival System and State Establishments of Belarus	3-4 weeks	Study of the system of work of archives in the Republic of Belarus, practical acquaintance with the archives of the country. Fundamentals of Belarusian public administration for foreign students
	The touristic potential of Belarus	2-3 weeks	Knowledge of the work of Belarusian travel agencies, visiting important tourist attractions of Minsk

Faculty of Economics	Finance and credit	4 weeks	The mechanism of functioning of the Central Bank and commercial banks
	Finance and credit	4 weeks	Modern monetary relations
Geography Faculty	Geothermia	from 1 week to 3 months	Deepening of skills in geothermal and geothermal energy (curator, Professor V. Zuy)
	Hydrometeorology	1-3 weeks	will be obtained the skills of modeling hydrological and meteorological processes using numerical methods (WRF)
	Geography	2 weeks	The creation of conceptual green tourist destinations. Methods and mechanisms for creating green routes. Methods of visualizing a tourist product in agro- and ecotourism.
	Geography	2 weeks	The change in the sedimentogenesis of Holocene lakes under conditions of climate change.
	Geoinformation technologies (GIS)	2-4 weeks	GIS-analysis and modeling skills, ability to design and layout in GIS will be obtained. Skills in the operation of GIS hardware and software
Faculty of Mechanics and Mathematics	Fundamental and Applied Problems of Tribo-Fatigue	4-5 weeks	<p>As a result of studying the course "Fundamental and Applied Problems of Tribo-Fatigue" a student (listener) should know:</p> <ul style="list-style-type: none"> <li>▪ complex approach to calculation and analysis of stress-strain, damage and limiting states of tribo-fatigue systems;</li> <li>▪ how to set and practically solve problems of estimation of stress-strain state and the state of volume damage of mechanical systems under simultaneous application of contact and not contact loads;</li> </ul> <p>methods of experimental study of wear-fatigue damage.</p>
	Mechanics of modern materials	3-4 weeks	As a result of the study, the student (listener) should to apply the knowledge gained for a reasonable choice of modern structural materials, as well as the calculation of machine parts, structural elements from modern materials, operating under variable loads, friction, combined effects.
	Biomechanics Biomaterials Damage and Fracture of Bone	3 months	Biomechanical models of biological tissues, systems of human organs (organs of hearing, vision, dentoalveolar system, bone) in norm and with pathology or postoperative defects will be studied. The skills of constructing mathematical and computer biomechanical models of human organs and biological tissues systems, as well as predicting their behavior and mechanical properties will be obtained.
	Additive Manufacturing and 3D printing in design, mechanical engineering,	3-4 weeks	<p>As a result of studying the course a student (listener) should:</p> <ul style="list-style-type: none"> <li>• Learn the fundamentals of additive manufacturing (AM) of polymers, metals, and ceramics, along with those for emerging materials (e.g.,</li> </ul>

	biomechanics and medicine		<p>nanocomposites, biomaterials) and complex architectures.</p> <ul style="list-style-type: none"> <li>• Understand the operating principles, capabilities, and limitations of state-of-the-art AM methods, including laser melting, fused deposition modeling, stereolithography, and jetting.</li> <li>• Become familiar with the complete workflow of AM, including computational design tools, file formats, toolpath generation, scanning, and microstructure characterization.</li> <li>• Understand key design rules for parts made by AM, and compare and contrast AM processes with conventional manufacturing methods such as machining and molding in terms of rate, quality, cost, and flexibility.</li> <li>• Gain hands-on experience with a variety of AM machines; use these machines to fabricate example parts, post-process the parts, and study the results.</li> <li>• Study applications of AM across industries, including aerospace/automotive, medical devices, energy, electronics, and consumer products.</li> <li>• Via examples and case studies, understand how to quantitatively assess the suitability of AM for an application, and realize how this justification will change as AM improves.</li> </ul> <p>Place AM in the context of the evolving manufacturing infrastructure, including advances in robotics, software, logistics, and digitization of data.</p>
Faculty of Chemistry	Interdisciplinary course ( or short-term school) “Clean Water for Life and Health”	2 weeks, 10-12 students	Standards of water quality characteristics in different countries, technologies for drinking and waste water treatment, measurement techniques of real water samples, water control at pharmaceutical industry and nuclear power plants. 24 hours of laboratory, visits to water treatment plants, analytical laboratories in industry, reference points at biosphere reserves are scheduled.
Faculty of International Relations	Eurasian Integration: Research Opportunities	1 month	<p>The scope of studies:</p> <ul style="list-style-type: none"> <li>- using methodology of the applied analysis of foreign policy in Eurasian integration studies;</li> <li>- application of quantitative and qualitative methods in the study of Eurasian integration;</li> <li>- characteristic features of the Eurasian integration research in the leading scientific research centers of the CIS.</li> </ul> <p>Acquired skills:</p> <ul style="list-style-type: none"> <li>• - development of research (for example, collection and interpretation of international information) and analytical skills (for example, writing structured analytical references).</li> </ul>

	International Tourism Management	1 month (autumn semester)	<p>The scope of studies:</p> <ul style="list-style-type: none"> <li>- approaches to and principles of the organization of inclusive tourism in the world, as well as existing examples of the development of this direction in Belarus.</li> </ul> <p>Acquired skills:</p> <ul style="list-style-type: none"> <li>- using the instrument of monitoring of the accessibility of tourist sites;</li> <li>- adapting existing tourism products and services to the requirements of people with special needs.</li> </ul>
	International Tourism Management	1 week – 1 month	<p>The scope of studies:</p> <ul style="list-style-type: none"> <li>- the concept of interpretation of cultural and natural heritage, based on the innovative approach to the creation and promotion of a tourist product.</li> </ul> <p>Acquired skills:</p> <ul style="list-style-type: none"> <li>- the ability to design a creative tourist product basing on the interpretation of cultural and natural heritage.</li> </ul>
	1-24 01 01 «International Law»	from 3 weeks to 1 semester	<p>The purpose of traineeship is learning English for professional communication (both orally and in writing) in different fields of professional activities (International Law) within intercultural communication. <b>The course content (1-4 semesters):</b> The main legal instruments in the history of law. Criminology as science. Criminal investigation. Types of crime. Causes of crime. Law enforcement agencies. Legal professionals. The trial. The jury. Civil and public law. The Constitutional Law of Great Britain. The Constitutional Law of the USA. The Constitutional Law of the Republic of Belarus. Corporate Law.</p> <p><b>(5-8 semesters):</b> The basic principles of international law. The nature of international law. The sources of international law. Subjects of international law. Territory in international law. Population in international law. The relationship between international and domestic law. The institution of recognition in international law. The concept of international organization. Intergovernmental organizations. Non-governmental international organizations.</p> <p>The United Nations Organization. The United Nations peacekeeping activities. Maintenance of world peace. The law of international security. The European Union. The foreign policy of the Republic of Belarus. Mechanisms for dispute resolution in international law. The law of international treaties. International human rights law. International humanitarian law. International criminal law.</p>

			International environmental law. International economic law. The role of international law in geopolitics.
	International Relations (areas: diplomatic service of Belarus; participation of the Republic of Belarus in the integration associations of the post-Soviet space)	Up to 1 month	Acquired knowledge: - formation, development and the current state of the diplomatic service of Belarus. Acquired skills: - scientific research of the participation and initiatives of the Republic of Belarus in the CIS, the Union State of Belarus and Russia, the Eurasian Economic Union, the CSTO.
	Private International and European Law	1-12 weeks	attending the lectures and seminars on Private International Law and related subjects (International Investment Law, Structuring of International Contracts, European Competition Law etc.) according to the curriculum, internship at a law firm, obtaining skills in Legal Drafting, drafting the scientific article, participation in the scientific and practical conference
Faculty of Applied Mathematics and Informatics	Computer Science	1 week - 3 months	laws, methods and methods of obtaining, storing, transferring and processing information using computers, computer networks and other technical means
	Computer Security	1 week - 3 months	models, methods, hardware and software, information security systems for its processing, storage and transmission using information technology
	Mathematical Software and Software of Data Security	1 week - 3 months	mathematical (algorithmic, cryptographic) methods of information protection, software tools, technologies and protection standards at all stages of their design, development and operation
	Actuarial Mathematics	1 week - 3 months	mathematical methods, tools of mathematical modeling and computer technologies, oriented to direct use in financial and economic institutions