**Student elective courses (SEC) for the academic year 2020-2021**

Specialty: "Pharmacy" SFO 2 course

Each student is obliged to gain 1 credit (ECTS) within 3 semesters

List and annotations of elective courses at the choice of students

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|  |  | **3 semester (1cr)** |
| No. | Loans | **Department name** | **SEC name** | **Annotations**  |
| **1** | **1** | Normal physiology | Humoral regulation of body functions |  Elective course introduces students to the mechanisms of humoral regulation of body functions with the participation of endocrine glands. The functions of the hormones of the hypothalamic-pituitary system, the thyroid and parathyroid glands, the adrenal glands, the pancreas and the gonads, the peculiarities of the reproductive function of the male body are revealed in detail, and the menstrual cycle and its hormonal supply are studied in detail. |
| **2** | **1** | Department UEF, TLS | Medicinal products based on medicinal product | The elective course is aimed at expanding and deepening knowledge on methods for obtaining extraction preparations based on medicinal products, studying technological schemes, equipment, developing skills for self-extraction from medicinal products, assessing the quality of raw materials and finished products. |

Specialty: "Pharmacy" SFO 2 course

Each student is obliged to gain 1 credit (ECTS) during 4 semesters

List and annotations of elective courses at the choice of students

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|  |  |  **4 semester (1cr)** |
| No. | credits | **Department name** | **SEC name** | **Annotations**  |
| **1** | **1** | Department pathological physiology | Pathophysiology of drug addiction and substance abuse | The elective course is aimed at studying the issues of the general etiology of drug addiction and substance abuse, the concept of drugs, the general mechanisms of action of drugs on the nervous system, stages of drug addiction, as well as the principles of prevention and treatment of drug addiction. |
| **2** | **1** | Department UEF, TLS | Homeopathic, veterinary, medical and cosmetic products | The elective course is aimed at studying the basics of homeopathy - history, features of this type of treatment, technology of homeopathic medicines, etc .; with a special branch of pharmaceutical science - veterinary pharmacy; with the basics of modern clinical cosmetology. |
| **3** | **1** | Department of Basic and Clinical Pharmacology | Pharmaceutical assistance  | The purpose of mastering an elective course is medicinal, informational and organizational-methodological support of the quality of pharmacotherapy for a specific patient with a specific disease, for monitoring visitors to pharmacies and increasing their adherence to treatment. |

Specialty: "Pharmacy" SFO 3 course

Each student must earn 6 credits during the semester.

List and annotations of elective courses at the choice of students

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|  |  | **5 semester (6 cr)** |
| No. | credits | **Department name** | **SEC name** | **Annotations**  |
| **1** | **1** | Department UEF, TLS | The main aspects of the circulation of biosimmilars | The issues of development, production and regulation of the circulation of such biotherapeutic drugs (biosimilars, from the English biosimilars) are becoming increasingly important. The elective course is aimed at studying the specifics of the system for regulating the circulation of biosimilars. |
| **2** | **1** | Department FGZ and HLS | Countermeasures against counterfeiting of medicines | The elective course allows you to master the methods of identifying counterfeit drugs at different stages of their promotion, work with the population to raise awareness of the problem of counterfeiting drugs. |
| **3** | **1** | Department of Forensic Medicine and Jurisprudence | Fundamentals of Modern Medical Legislation | The elective course examines the issues of legislative support for the protection of public health, the rights and obligations of medical organizations, medical and pharmaceutical workers, as well as citizens in the field of health care, the problems of social and legal protection of medical and pharmaceutical workers. |
| **4** | **1** | Department of Basic and Clinical Pharmacology | Pharmaceutical assistance  | The purpose of mastering an elective course is medicinal, informational and organizational-methodological support of the quality of pharmacotherapy for a specific patient with a specific disease, for monitoring visitors to pharmacies and increasing their adherence to treatment. |
| **5** | **1** | Department FGZ and HLS | Modern trends in the creation of new medicinal substances of organic nature | The aim of the course is to expand and deepen the knowledge of students about modern methods of obtaining medicinal substances of organic nature. The modern ways of creating organic medicinal substances, which have found application in practical medicine, are considered. |
| **6** | **1** | Department UEF, TLS | Pharmaceutical logistics according to GDP / GSP regulations | The elective course is aimed at studying the regulatory requirements of the Kyrgyz Republic, the EAEU, WHO in relation to the distribution of medicines; acquiring skills in organizing the main processes of pharmaceutical logistics |
| **7** | **1** | Department general hygiene | Valueology as a science of health | The aim of the elective course is to study the basics of a healthy lifestyle and the way of modeling, achieving these foundations. |
| **8** | **1** | Department propedeutics of internal diseases with a course of endocrinology | COVID - 19 Pharmacists' Guidelines | The aim of the elective course is to provide relevant information and guidelines regarding the pandemicCOVID - 19 Pharmacists and Pharmacy Workers in the Context of Primary Health Care. |

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|  |  | **6 semester (3 cr)** |
| No. | **Loans** | **Department name** | **CPV name** | **Annotations**  |
| **1** | **1** | Department Department FGZ and HLS | Pharmacognostic analysis of medicinal plant materials and quality control of medicinal products | The purpose of the elective course is an in-depth study of the methods of pharmacognostic analysis of medicinal products and pharmacopoeial methods for the analysis of drugs. |
| **2** | **1** | Department UEF, TLS | Sales technique. Merchandising in pharmacies. | The elective course is aimed at studying the methods of establishing effective communication with a pharmacy visitor; use of modern sales techniques; application of the main provisions of the concept of merchandising in the work of pharmacies. |
| **3** | **1** | Department basic and clinical pharmacology | Introduction to Pharmacoepidemiology | The purpose of mastering the elective course is to study the use and effect of drugs on large groups of people, to study the assessment of the therapeutic risk associated with the use of drugs and the effectiveness of measures and to minimize them, allowing pharmacists, in cooperation with other specialists conducting treatment, to plan, control, recommend and change individual patient pharmacotherapy to optimize it. |
| **4** |  | Department UEF, TLS | Good Pharmaceutical Practices for the Circulation of Medicines | The elective course focuses on the study of the concept of good practice in pharmacy (GHP); good pharmaceutical practices of the Eurasian Economic Union. |
| **5** |  | Department UEF, TLS | Quality management of drug production  | The elective course is aimed at studying the main GMP documents that ensure the production of drugs with guaranteed quality; students are introduced to concepts such as a quality commissioner, a quality assurance structure in a pharmaceutical company. |

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