



The University Of Georgia

Program name:	Pharmacy 2016
Study Level:	Undergraduate
Program leader:	Elza Nikoleishvili
Study language:	English
Qualification:	Bachelor of Pharmacy
Program capacity:	240
Program permission:	English language requirement (B2 Level) and other legal requirements. In particular, Georgian citizens must successfully pass Unified National Exams and A) For Foreign citizens and stateless persons who have received general education or equivalent education in a foreign country, B) For the citizens of Georgia who have received general education or equivalent education and Studied abroad in the last 2 years of general education, C) persons who are studying / have studied and earned credits in a foreign country recognized by the laws of this country's higher education institutions will be able to transfer to this program without passing Unified National Exams according to the order (№ 224 / N Ministry of Education and Science, December 29, 2011). In the case if applicants do not have an English language certificate FCE (First Certificate in English) their English language competence is defined by the university through the university exams, with a minimum threshold of 60%.
Program goals:	The goal of the program is to train a qualified bachelor of Pharmacy, who will be able to grow professionally and to have the ability to learn at a later stage, who will have basic knowledge of pharmacology, patient-centered rational pharmacotherapy, pharmaceutical assistance and care, using the results of clinical trials in the field of pharmacy, pharmaceutical products and pharmaceutical analysis, as well as an ability to process and issuance of pharmaceutical information based on ethical values, implement the physician-pharmacist-patient model, communication with the public and professional society, management of structural units of pharmaceutical institutions at the appropriate level.
Methods for Attaining Learning Outcomes:	• Lectures and seminars; • Methods of working with books; • Discussion; • The explanatory method; • Demonstration methods; • Usage of video and audio learning materials; • Interactive lessons; • Situational tasks; • Role-playing tasks; • Practical work; • Laboratory work; • Teamwork • Formulation of problems and their solutions; • Critical analysis; • Group assignments; • Projects; • Problem-oriented activities; • Case study and analysis • Literature review; • Searching for materials in the library or in electronic format; • Methods of written work • Methods of essay writing ; • Presentation; • Verbal or oral method; • Observation method; • Electronic and non-electronic medical records; • Clinical, practical lessons
Learning outcomes:	Knowledge and understanding • Knows, describes and defines basic principles and characteristics of physiological and pathological processes in the human body, methods of examination and treatment of internal diseases; • Describes, explains, distinguishes, compares and reviews patterns of molecular mechanisms of vital processes, inheritance and variability, main aspects of physiological and pathological processes; • Describes, reviews, explains, and predicts peculiarities of pharmacokinetic and pharmacodynamic processes in different categories of patients (children, adults, the elderly, pregnant women); • Knows the methods of production, extraction, standardization of medicinal plant raw materials, separation of medicinal substances and determination of their chemical structure; • Can demonstrate basic knowledge of complex issues of pharmaceutical factory and pharmacy technologies: classification of drug forms, dosage, pharmacy and factory technology of medicines, normative-technical documentation; • Describes, distinguishes, compares, classifies and develops regimens of pharmacological groups, mechanisms of their action and interaction, prescribing of medications, indications, contraindications, side effects and dosage, taking into account biotransformation and elimination pathways;

	- Has a knowledge of nomenclature of pharmaceutical institutions, management of the pharmacy as a unit, its structure, functions and tasks, selection and provision of medicines, storage and issuance of medicines and medical supplies; - Determines data defining chemical processes in living or non-living systems, functional groups of organic compounds, instrumental methods of chemical analysis - Understands the importance of rational pharmacotherapy in conducting polypragmasia, ineffective, toxic and dangerous medication treatment.
	Skills - Prepares medicines according to the rules of extemporal preparation (according to the prescription); - Uses the methods of serial production of pharmaceutical products; - Performs chemical, biological and toxicological analysis/testing of pharmaceutical products; - Provides pharmaceutical care and first aid care to patients based on the "Good Pharmaceutical Practice" (GPP) in inpatient and outpatient settings; - Collects, processes, explains, evaluates and formulates relevant conclusions on the data for the implementation of pharmaceutical activities (production and sale of pharmaceutical products, pharmaceutical care); - Maintains professional records (reports, proposals) to solve problematic issues related to pharmaceutical activities; - Presents detailed written and oral reports to medical staff and health professionals on the issues related to pharmaceutical activities; - Provides information and education of the patient, family members and the general public.
	Responsibility and autonomy - Assesses his/her own learning process in the fields of pharmaceutical activities and determines need for further study in pharmacology pharmacokinetics, pharmaceutical technology, pharmaceutical chemistry, pharmaceutical analysis, pharmacognosy, pharmacotherapy and clinical pharmacy, pharmaceutical care, pharmaceutical management; - Ensures observance of professional, ethical and legal (both local and international) norms of personal data protection in pharmaceutical practice and research and strives to establish them in practice.

Date of approval:	06-27-2014
Approval protocol number:	27-14
Date of program update:	
Update protocol number:	36-1/16

Program details:	...
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Teaching Process Characteristics:	Bachelor Pharmacy program in English," covers 240 ECTS credits and consists of the main subjects of 222 ECTS and 18 ECTS credits in elective subjects (which are selected from 57 ECTS elective credits). The compulsory modules of the core subjects of English-speaking students of 12 ECTS credits (KART1141 Georgian as a Foreign Language I (6 ECTS) and KART1142 Georgian as a Foreign Language II (6 ECTS)); Georgian students to major 12 ECTS credits (ENGL3218 English Language doctors (C 1/1) (6 ECTS) ENGL3219 English Language and doctors (C 1/2) (6 ECTS) compulsory subject. Students are offered semester courses, intensive cycle system hands-on exercises are carried out in pharmaceutical companies (enterprise practice) and facilities (pharmacy chain, health care clinics), also practical lessons are given in the University –owned simulation pharmacy and in the appropriate laboratories.
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Program Core

Code	Subject	ECTS	Semester
DENT1220	Histology and Embryology	6	1
ENGL3218	English Language for Medics (C1/1)	6	1
LING0011	Medical Georgian as a Foreign Language I	6	1
MATH1119E	Introduction to Mathematics and Statistics	6	1
NRSI1122E	Human Anatomy-Physiology I	9	1
PHAR1110	History of Pharmacy	3	1
DENT1210	Medical Physics and Biophysics	6	2
ENGL3219	English Language for Medics (C1/2)	6	2
LING0013	Medical Georgian as a Foreign Language II	6	2
NRSI1221E	Human Anatomy-Physiology 2	9	2
PHAR1210	General and Inorganic Chemistry	6	2
DENT1230	Biochemistry	6	3
DENT2120	Pathological Anatomy and Physiology	6	3
DENT2130	Molecular Biology and Genetics	6	3

NRSI2140E	Microbiology	6	3
PHAR2110	Organic Chemistry	6	3
BUSN1210E	Basics of Business and Economics	6	4
PHAR2211	Pharmacokinetics	6	4
PHAR2220	Pharmacology I	6	4
PHAR2230	Analytical Chemistry	6	4
PSYC1275E	Social Psychology	6	4
DENT3220	General Medicine and Diagnostics	6	5
PHAR3110	Pharmaceutical Chemistry	6	5
PHAR3130	Pharmacognosy	6	5
PHAR3140	Pharmacology II	6	5
HELM232210E	Health Care Management	6	6
PHAR3210	Pharmacotherapy I	6	6
PHAR3220	Pharmaceutical Technology	6	6
PHAR3230	Fundamentals of Homeopathy	3	6
PHAR3240	Toxicology	6	6
PHAR4110	Pharmacotherapy II	6	7
PHAR4120	Clinical Pharmacy	6	7
PHAR4131	Basics of Pharmaceutical Activities, Organization and Policy, Hygiene and Preventive Medicine	6	7
PHAR4141	Pharmaceutical care; First aid and emergency medical care	6	7
PHAR4150	Bioethics in Pharmacy	3	7
PHAR4210	practice I - pharmaceutical care	6	8
PHAR4220	Practice II - Clinical Pharmacy	6	8
PHAR4230	practice III pharmaceutical technology	6	8
PHAR4240	practice IV pharmaceutical analysis	6	8
PHAR4260	Teaching and Learning in Pharmacy	3	8

Total ECTS to be taken: 234

Program Elective

Code	Subject	ECTS	
PHHS1011	Climate Change and Health	3	
PHHS1012	Art in Healthcare	3	
INFO1133E	MS office	6	
KART1220E	Academic Writing	6	
HELM4150E	SPSS: Data Analysis and Formation in healthcare	3	
LATN2219	Latin Language (For Medics)	6	
PHAR3151	Pharmaceutical Information and Professional Communication	6	
PHAR3160	Phytotherapy	3	
NRSI4140E	Bioethics and medical law	3	
PHAR3251	Basic of Nutrition	6	
DENT4280	Biostatistics and Epidemiology for Dentists	6	
HIST1120E	Introduction to World History	6	
HIST1230E	Introduction to the History of Georgia	6	

[Matrix Of Privequisites](#)

Point	GPA	The university assessment	The general assessment in Georgia	
97-100	4,00	A+	A	Excellent
94-96	3,75	A		
91-93	3,50	A-		
87-90	3,25	B+	B	Very good
84-86	3,00	B		
81-83	2,75	B-		
77-80	2,50	C+	C	good
74-76	2,25	C		
71-73	2,00	C-		
67-70	1,75	D+	D	Satisfactory
64-66	1,50	D		
61-63	1,25	D-		
51-60	1,00	E	E	Sufficient
Not passed				
41-50		FX	FX	Insufficient
<40		F	F	Failed