Caucasus International University

Tbilisi, 2023 year

Faculty of Medicine

One-step higher education program

Dental Medicine

Modified program

Approved at the session of the academic council

18 March, 2021 year

Academic Counil resolution # 01

18 March, 2021 year

1. Name of the educational program

Dental Educational Program in English

2. Step of the Higher Academic Education

Single-step program

3. Type of the educational program

Academic Higher Educational Program

4. Field

Health and Welfare

5. Direction

Healthcare

6.Detail field

Dental Studies

7. Sphere of Education

Dental Medicine

8. Program volume in credits

300 Credits

9. Duration of study

5 years, 10 semesters

10.Tuition Form

Full-time study

11. Tuition Language

English

12. Qualification to be awarded

Doctor of Dental Medicine (DMD)

13. Program Managers

Lela Tsitaishvili, Academic Doctor of Medicine, Professor of Faculty of Medicine of the Caucasus International University, specializing in Stomatology.

14. Precondition for admission to the program

To support enrollees and with the purpose of mobility of students, subject to the rule and within the terms determined by the Ministry of Education and Science of Georgia, studying at higher education institutions without taking unified national exams is allowed for:

A) Citizens of foreign countries and stateless persons who have studied abroad and acquired general education or its equivalent;

B) Citizens of Georgia who have acquired complete general education or its equivalent abroad and studies in a foreign country for the last 2 years of general education;

C) Foreign citizens (save to students participating in joint higher education programs or exchange education programs) studying/having studied and received credits/qualification in a foreign country at a higher education institution acknowledged in compliance with legislation of the concerned country;

D) Citizens of Georgia (save to students participating in joint higher education programs or exchange education programs) who, for the term determined by the Ministry of Education and Science of Georgia, are living/have lived, are studying/have studied andreceived credits/qualification in a foreign country at a higher education institution acknowledged in compliance with legislation of the concerned country.

The mandatory precondition to enrollat the program is having level B2 in English.

To prove that command of English complies with level B2, a person is obliged to submit to the University a relevant certificate or take a test conducted by the Language Center of the University.

Georgian nationals who have passed unified national exams can be enrolled in the "Dental Educational Program in English" upon presenting B2 English language certificate.

Upon obtainment of the status of a student of Caucasus International University, a person is obliged to submit to the University a document approving complete general or equivalent education while a person being on file for military service in line with the applicable legislation shall submit a document confirming that a person is on file for military service.

Enrollment at Dental Educational Program via mobility is permitted upon completion of one academic year. Mobility is allowed twice a year within the term established by the Ministry of Education and Science of Georgia with observation of obligatory procedures approved by the Act of the Director of LEPL National Center of Education Quality Enhancement and rules determined by the University.

Students already enrolled in the "Dental Educational Program in Georgian" can be transferred on the "Dental Educational Program in English" based on unified national exams and upon presenting B2 English language certificate.

15. Duration and Volume of Studies

- One academic year lasts for **38 weeks;**
- I term duration is **19 weeks;**
- II term duration is **19 weeks.**

Out of which:

(a) Period from **1st to 15th week** is the period of studies, when lecture-seminars, practical and laboratory trainings, midterm examinations are held, presentations and research papers are prepared, made and defended.

(b) During the period from **16th to 18th week** final examinations are held;

(c) During the final **19th week** reexaminations are held.

16. The objective of educational program:

Educational Program in Dentistry is focused on training of highly qualified specialists equipped with university education, basic and clinical theoretical knowledge in dentistry, practical skills and high moral standards. It strives for establishment and development of skills necessary for professional activity.

In light of the aforementioned, the goal of the program is:

- Acquirement of the university education in conformity with the modern requirements;
- Knowledge of the basic sciences;
- Awareness of public healthcare system and realization of the role of a dentist within this system;
- In-depth learning of the special clinical disciplines
- Acquirement of general clinical skills within the competence of a dentist with the purpose of providing quality first aid and reanimation measures;
- Mastering contemporary techniques of specific dental aid, formation and development of skills essential for carrying out clinical, diagnostic and practical activities.
- Knowledge of ethical and legal principles;
- Motivation for life-long medical education and professional development.
- Prepararion for further steps of studying – residency or doctorate programs.

17. Dental educational program - 300 credits

Dental educational program is the educational program focused on training students for the respective profession.

With the purpose of development of relevant behavioral components, it is essential to integrate fundamental (theoretical, basic) and practical (clinical) courses of study.

Mandatory Components 284 credits, including:

- Mandatory university courses of study – **10 credits;**
- Mandatory faculty courses of study– **30credits;**
- Mandatory basic courses of study in the specialty – **89 credits;**
- Mandatory clinical courses of study in the specialty – **155 credits.**

Optional Components: 16 credits, including:

Optional university courses of study – **10 credits;**

Optional faculty courses of study – **6 credits.**

18. Methods of achieving the outcomes of the study (methodology of study)

The process of study is based on the modern methods of teaching with special focus on application of methods like interactive lectures, case analysis, individual and group presentations, and seminars based on the real theoretical and clinical cases and materials.

The goals and tasks of the study defined within the educational program are achieved through a cycle of theoretical and practical sessions.

The purpose of the theoretical sessions is to review basic topics of the educational program in theoretical perspective and provide students with mandatory literature and information on the methodological foundations of the discipline under study.

The purpose of the practical sessions is to help the student enhance obtained theoretical knowledge; appropriately comprehend the essence and significance of the issue under study and identify the capacities for its practical application; develop skills for objective analyzes and assessment of the factors influencing the preparation and approval of the decisions with respect to the subjects, also skills to be used for practical activities and independent work.

During the training process, a particular attention is paid to using active methods of teaching.

Basically, the following methods are used during the lectures:

- **Verbal or oral method** (oral presentation of lectures and seminars, presentation);
- **Oral presentation of the seminar and training materials in Power Point format** (the seminars based on actual theoretical and clinical cases and materials).
- **Group discussion/debate** (challenging the students to debate; expressing one's own viewpoint during an interactive lecture);
- **The method of working on the book;**
- **The method of writing work**, which implies the following: test work, quizzes, solving exercises and problems, making notes of main and complementary training literature;
- **The collaboration method** - mutual assessment of the knowledge and communication skills acquired by the students; the use of the students' self-assessment for the formation of ultimate evaluation;
- **Brainstorming** - implies stimulating the realization of the students' mental capacities, during which various ideas proposed by students are generated around one particular issue and then classified and prioritized)
- **The demonstrative method;**
- **The method of searching for innovative information/material;**
- **Participation in scientific research;**

During the practical sessions, the following methods will considerably contribute to the strengthening of the obtained knowledge and the development of the skills necessary for carrying out professional activities by the student:

- **(CBL) -** Analysis of a case or the case-study method which describes the specific situations, **clinical cases, problems,** requires discussion and serves as an incentive for logical reasoning by the students;
- **Group discussion/debates** prompting an argument among students during practical training, expressing one's own viewpoints;
- **Team work** implying formation of team of 5-6 students within academic groups; mutual presentation of seminars and scheduled training-creative projects; development of healthy competition among the groups;
- **Clinical rotations** at university and training dental and general clinics;
- **Bedside teaching;**

- **Role plays** – performing roles of a physician and a patient;
- **Practical assignment** under supervision;
- **Study in clinical environment and development of clinical thinking;**
- **Use of training videos/films;**
- **Teaching with use of simulator;**
- **Accomplishment of practical procedures required for development of competences of first aid and dentist in an appropriately equipped environment;**
- **Conducting laboratory trainings;**
- **Counseling and independent work.**

19. Study, training and evaluation:

Integration of theoretical and practical training, and development of clinical skills at a virtual simulation center (for the first and second-year students) and in the clinic environment (for senior students) are the essential precondition for training. The university should give preferences to new technologies during the training process. The training is carried out with application of the following methods:

Discussion/debates methods, the cooperative training, case-study, the demonstrative method and the explanatory method. It is necessary to apply simulants and molds. Upon completing the educational program, the graduates shall be able to demonstrate the clinical skills acquired during the training process, independently, on the simulators or under supervision.

Knowledge and skills should be assessed by means of both oral and (written) tests, practical exam ,objectively structured clinical examination (OSCE), presentations, abstract-thesis.

It is very important to apply the following forms of teaching during the training process:

- Interactive lectures, seminars and interim exams;
- Teaching in the clinical environment.
- Use of simulators and moulages;
- Playing role of apatient and a physician;
- Laboratory study;
- Presentations;
- Participation in scientific research;
- Practical courses at clinical facilities.

An essential requirement for the result-oriented training is an early involvement of the student in scientific work. Specific hours within the curriculum are designated for participation of the student in the research. It is important that students not only learn how to assess scientific information critically, but also acquire basic principles for organisaton, conduct and analysis of the research and presention of its findings. The students attend and participate in the scientific conferences organized by the university.

The evaluation of the training outcomes upon completion of basic medical education course implies assessing both theoretical knowledge and practical skills.

Recommendations for the assessment of the study outcomes and competencies are provided in detail in the joint document prepared by WFME and MEDINE – "Global standards for medical education quality enhancement with account of European specifics" and conform to the competencies developed by TUNING/MEDINE.

Within the basic medical education, a considerable significance is attached to the development of clinical skills. By the direct contact with the patient in the university clinic, the student develops certain clinical skills which are vital at the pre-clinical stage of the study.

In future, the computerized training programs illustrating actual disease with maximum precision, a diagnostic or therapeutic procedure will be applied in the training process.

20. The system of evaluation of student's knowledge

100-point system of eveluation of a student is applied at the University.

Final evaluation of the work performed by a student envisages interim evaluation and essessment of the final exam. Interim evaluation encompasses weekly assessment and evaluation of midterm exam, each of these elements has its own percentage share in the overall system of assessment.

A student can gain weekly assessment by active involvement at lectures and working groups, semianrs, practical trainings and laboratory trainings, performing homework, participating in the solution of a particular case, doing quizzes, preparing and presenting a course paper, preparing and presenting individual or group projects, etc. **A student can gain 40 points through weekly eveluation.**

- **Midterm exam in each subject is held once a semester and is assessed by 20 points.**
- Deriving from specificity of a particular course of study, the components of interim evaluation may be specified: content and share of the component is identified by the leading lecturer of the course of study.
- **A student can gain maximum 60 points through interim evaluation;**
- **The minumum threshold competence of interim evaluation is 25 points;**
- **Final exam is compulsary and its share in evaluation system equals to 40 points.**
- **The minumum threshold competence of interim evaluation is 20 points;**
- **The final examination is deemed passed if, with consideration of the points scored during interim evaluation and the final examination, the student scores minimum 51 points.**

Evaluation components and their share are provided in the syllabus of each course of study. Information on evaluation system and components is available to the students.

The forms and criteria of evaluation are the following:

Maximum positive evaluation – 100 points, minimum positive evalutaion – 51 points;

1. **Working at lectures and working groups** (active engagement at lectures, seminars, practical and laboratory trainings, doing homework, participation in solution of a particular case, doing written quizzes, preparation and presentation of course paper, preparation and presentation of individual and group projects, etc) – **30-35 points;**

   Presentation of a topic selected in advance, preparation and defending a course paper, individual or group project – **5-10 points;**
2. **Midterm exam – 20 points;**
3. **Final exam – 40 points;**
4. **Final evaluation- 100 points.**

During the process of study a student's knowledge is evaluated according to: participation in discussions at lectures and seminars, active engagement at seminars, performance of practical, laboratory and written assignments, oral presentation, answering questions, preparation of course paper, presentation of a paper at the conference, making specially designed tests and questionnaires.

Evaluation of engagement at lectures and within the working groups, practical and laboratory trainings may differ according to the specificity of the course and views and approaches of the lecturer delivering the course. The rule, form, scores and criterial of continuous evaluation of a student in the process of studies are defined by the professor of the course of study with consideration of specificity and objectives of training in agreement with the quality assuarence service. The rule, forms, methods and criteria of evaluation are referred to in the syllabus.

Rules, forms, criteria and evaluation points are envisaged in syllabuses of the courses of study.

Academic achievement in every discipline is evaluated by the evaluation system relevant to **European Credits Transfer System (ECTS) and "the rule of calculation of credits of higher education programs" approved by the order No3 of January 5, 2007 of the Minister of Sciences and Education of Georgia.**

Evaluation system envisages five positive and two negative evaluations:

Point	Eveluation	
91-100 points	**A**	**Excellent**
81-90 points	**B**	**Very good**
71-80 points	**C**	**Good**
61-70 points	**D**	**Satisfactory**
51-60 points	**E**	**Sufficient**
41-50 points	**Fx**	**Did not pass**(Student needs to work harder to pass the examination and is allowed to take an additional exam after working independently)
0-40points	**F**	**Failed** (The work accomplished by the student is not sufficient and he/she must take a course anew).

A student is allowed to take one reexamination within the same term within 5 days upon announcement of the results of final examination.

21. Academic Degree/Qualification to be awarded

The qualification to the graduate of the Dental Educational Programs shall be awarded according to the decree of the **Minister of Education and Science of Georgia of 10 December 2010 № 120 / N on the Approval of the National Qualification Framework**. The graduates of the Dental program shall be awarded the **qualification/academic degree of the Doctor of Dental Medicine(DDM)** and shall be given a state diploma certifying the completion of respective program, together with the diploma annex determined by the state.

Precondition for granting qualification/degree is scoring by a student of 300 ECTS credits.

22. Field of Employment

According to the applicable legislation, the graduates of one-step higher medical educational program (DDM) are not authorized to carry out independent medical activities.

In accordance with the **Law of Georgia on „Medical Activities“,** `the right to independent medical activities shall be exercised by a citizen or a stateless person of Georgia or a foreign country who graduated from an accredited higher medical institution of Goergia and has acquired a state certificate verifying his/her right to independent **“Medical activities“ in conformity with this law` (article 7).**

The field of employment for Doctors of Dental Medicine (DDM are the following:

- Medical activity in the capacity of a junior doctor. The junior doctor performs the function of a doctor under the instructions and responsibility of the person authorized to carry out independent medical activities **(article 5, Law of Georgia on Medical Activities);**
- Pedagogic and scientific activities.

23. Material resource for implementation of the program:

For achieving the learning outcomes envisaged the dental educational program, the students can have limitless access to the university’s infrastructure and logistical resources, in particular:

- **Two university dental clinic;**
- **The university study laboratory for the basic disciplines;**
- **Scientific research laboratory of neurosciences and applied physiology;**
- **Two phantom training classes;**
- **Biochemical laboratory;**
- **Centre for Clinical Skills;**
- **The lecture and conference halls equipped with appropriate furniture and information-communication facilities;**
- **The lecture and conference halls equipped with appropriate furniture and information-communication facilities, 5 computer classes;**
- **2 libraries equipped with information-communication technologies and 3 reading rooms for 150 readers furnished with computers, copying machines, printers, scanners and other necessary devices.**

The library houses a vast collection of training-methodic and scientific literature, printing and digital text-books, the data base of the fund of the books kept at the library and the digital catalogue allocated at the university’s web portal. The collection of all the books preserved at the university is fully represented in the integrated library system **„openbiblio” (http://www.ciu.edu.ge/openbiblio)**

University provides connection to international electronic library net.

Caucasus International University is registered as a member of consortium of participants of **“Electronic Information for Libraries” (eIFL)** and is entitled to use the following electronic resources.

For the purpose of the implementation of the program’s practical components, the university has signed joing cooperation agreements with Georgia’s leading clinics and hospitals, where practical sessions as planned within the syllabus take place, and the students are adapted to the clinical environment. These facilities include:

Ltd „The 5th clinical hospital“;

Saint Michael the Archangel Clinical Hospital;

Academic Iashvili Children's Central Clinic;

Ltd Tbilisi Central Hospital;

New Hospital;

Surgery National Center;

Academic Gudushauri national medical Centre ;

Medical Centre Medison;

Scientific -practical training center of Infectious Diseases, AIDS and clinical immunology;

Clinic Medicore;

Neolab;

Denral Clinic Diodent Ltd;

Denral Clinic L.T.Dental Studio" Ltd;

Orthodontic Center;

Dental Clinic "Smile care";

Dental Clinic "Dentarea";

Dental Clinic "Algani Dent ";

Dental Centre;

Net of Dental Clinics "Dens".

Map of Competences

Study Course	Knowledge and Understanding	Skill	Responsibility and Autonomy
Foreign language (Georgian) - 1	X	X	
Foreign language (Georgian) - 2	X	X	
Medical biology	X	X	
Medical bioethics	X	X	
Preventive medicine	X	X	
Biostatistics	X	X	
Laboratory medicine	X	X	
Management Public Health - Care and Health Care Informational Systems	X	X	
Bases of scientific research (Information bases, research methods)	X	X	
Scientific research skills (Preparation of an independent research plan)	X	X	
Medical psychology	X	X	

ScientificWriting Paper	X	X	
Human normal anatomy (locomotor and internal organs anatomy) for dentists	X	X	
General histology,with cytology	X	X	
Introduction of biochemistry	X	X	
Biophysics	X	X	
Human normal Physiology (General) for dentists	X	X	
Human normal anatomy (cardiovascular system and neuroanatomy) for dentists	X	X	
Special (organs systems) histology	X	X	
Emergency Medicine	X	X	
General biochemistry for dentists	X	X	
Basic Clinical Skills	X	X	
Human normal Physiology (organs systems) for dentists	X	X	
General microbiology for dentists	X	X	
Topographic anatomy and operational surgery of the head and neck	X	X	

Pathology (General Pathology, Local blood flow, Inflammation, Fever, Tissue growth Pathology)	X	X	
Special biochemistry	X	X	
Pathology (Tumor growth, metabolism, pathology of typical disorders, central hemodynamics, respiratory system pathology)	X	X	
General Pharmacology for dentists	X	X	
Immunology for dentists	X	X	
Special microbiology	X	X	
Pathology (digestive, urinary, endocrine and nervous systems pathology)	X	X	
Special Pharmacology	X	X	
Epidemiology for dentists	X	X	
Medical Radiology for dentists	X	X	
Introduction of Therapeutic Dentistry	X	X	
Prevention of dental dieases	X	X	
Phantom Operative Odontology	X	X	
Introduction of prosthodontic dentistry	X	X	
General Surgery for dentists	X	X	

Phantom Endodontics	X	X	
Oral Cavity Surgery	X	X	
Dental materials for prosthodontic dentistry	X	X	
Allergology for dentists	X	X	
Clinical Odontology	X	X	X
Inflammatory diseases of maxillo-facial area in adults)	X	X	X
Fixed dental constructions	X	X	
Preclinical periodontology	X	X	
Odontology of children and adolescents	X	X	
Clinical Surgery for dentists	X	X	
Internal medicine for dentists	X	X	X
Diagnostics of internal medicine	X	X	X
Maxillo-facial inflammatory diseases and oral cavity surgery of children and adolescence	X	X	
Infectious Diseases and Clinical Parasitology	X	X	
Clinical Endodontics	X	X	X
Salivary glands diseases and pathologies of temporo-mandibular Joints in adults	X	X	X

Treatment of partial edetulism with dental bridges	X	X	X
Endodontics of children and adolescents	X	X	
Maxillo-facial traumatology and Temporo-mandibular joint diseases in children and adolescents)	X	X	
Orthodontic dentistry (Developmental peculiarities of maxillo-dental system)	X	X	X
Clinical Periodontology	X	X	X
Traumatology and neural diseases of maxillo-facial area in adults	X	X	X
Treatment of partial edetulism with removable dentures	X	X	X
Congenital malformations of maxillo-facial area in children and adolescents lesions)	X	X	
Orthodontic dentistry (Anomalies of dentoalveolar system)	X	X	X
Otorhinolaryngology for dentists	X	X	
Dermatovenerology for dentists	X	X	
Diseases of the oral mucosa	X	X	
Tumors and tumor-like diseases of oral cavity and maxillo-facial area in adults	X	X	
Prosthesis of edentulous jaws	X	X	X
Diseases and Anomalies Periodontium and oral mucosal	X	X	

membrane in children and adolescents;			
Biomechanics and appliances used in orthodontic dentistry	X	X	
Reconstructive surgery of maxillo-facial area, Dental implantology	X	X	X
Reconstructive prosthodontics for traumatology of maxillo-facial area;	X	X	
Periodontal Surgery	X	X	X
Tumors of maxillo- facial area and oral cavity in children and adolescents	X	X	
Orthodontic dentistry (Congenital malformation, traumatic injuries and diseases of Temporo-Mandibular joint.)	X	X	
Therapeutic Dentistry; Children and adolescents Therapeutic Dentistry (Integrated Course)	X	X	X
Oral Surgery Children and adolescents oral surgery (Integrated Course)	X	X	X
Basics of philosophy	X	X	
History of the world civilizations	X	X	
Culturology	X	X	

Basics of psychology	X	X	
Cultural anthropology	X	X	
Hygiene	X	X	
History of Medicine	X	X	
Sociology	X	X	
Pediatrics for dentists	X	X	
Basics of physiotherapy	X	X	
Nutrientiology	X	X	