
ACADEMIC DEPARTMENTS

Department of Anatomy and Cell Biology

The Department of Anatomy and Cell Biology was established first in 1992 as a unit of the School of Medical Science, in 1997 it was included into the Department of Biological Science and then became an independent department in 2005.

The Department is one of the first departments to welcome students starting degree programs in Medicine, Biomedicine and Dentistry. It conducts teaching of Gross Anatomy, Pathological Anatomy, Histology, Cell Biology and Embryology to medical students. The structure of courses includes lectures, practicum and guided independent studies.

The Department is eager to enhance technology-based education and widely uses computers, web tools and special video programs in teaching process.

The courses given by the Department cover the structure and function of the muscular-skeletal system and visceral anatomy, microscopic structure of cells, tissues, and organs of the human body, and correlation of structures and function.



Research activities are being developed at the Department on Human Functional Anatomy, Anthropology, Human Reproductive and Development Biology and Pathology.

Department of Civil and Environmental Engineering

The Department of Architecture, Civil and Environmental Engineering provides a broadly based undergraduate and graduate education in Architecture, Architectural Engineering and Management, Civil Engineering and Management, and Environmental Engineering and Management. The Department is committed to the study of the natural and artificial systems primarily comprising cities, buildings and industrial products.

The Department has three divisions:

- Architecture
- Civil Engineering
- Environmental Engineering

Architects design buildings and other structures. Buildings must be functional, safe, and economical and must suit the needs of the people who use them. Architects consider all these factors when they design building, such as office and apartment buildings, schools, factories, hospitals, houses, etc. They also design complexes such as urban centers, college campuses, industrial parks and entire communities.

Civil engineers are responsible for the design and construction of buildings, highways, pollution and contaminant control systems, water resources systems, etc. They are often responsible for planning, managing, operating and maintaining these facilities. Spurred by general population growth and expanding economy, more civil engineers will be needed to design and construct large buildings and building complexes, higher capacity transportation, water supply and pollution control systems.

Environmental engineers design systems to protect the environment from the discharge of solid, liquid and gaseous wastes. Using the principles of physics, biology, and chemistry, environmental engineers develop methods to solve problems related to the environment. They are involved in water and air pollution control, recycling, waste disposal, hydrology, river management and control, and public health issues, among others. Environmental engineers conduct hazardous-waste management studies, evaluate the significance of the hazard, offer analysis on treatment and containment, and develop regulations to prevent mishaps. They analyze scientific data, research controversial projects and perform quality control checks.

Problems ranging from the architecture, civil and environmental engineering are covered in lectures, practicum and industrial practice where the aim is to bring together knowledge, methodology, theory and skills within the framework of projects.

The Department offers following degree programs:

- BS in Architectural Engineering and Management;
- BS, MS, Ph.D. in Architecture;
- BS, MS, Ph.D. in Civil Engineering and Management;
- BS, MS in Environmental Engineering and Management.

For the management courses required in these programs, students should register for related courses offered by the Department of Economics and Management.

Department of Azerbaijani Language and Literature

The Department of Azerbaijani Language and Literature was established in May 1995 and currently offers undergraduate and graduate (master and doctoral) degrees in Azerbaijani Language and Azerbaijani Literature and specific courses in these two fields for students from various schools at Khazar.

Survey courses *Azerbaijani Language* and *Azerbaijani Literature* are obligatory for all undergraduate students, regardless of their major field of study. Moreover, interaction-oriented teaching in Azerbaijani Language is tailored towards specific needs of students for whom Azerbaijani is mother tongue as well as for those for whom it is a foreign language.

Research plays a paramount role in complementing teaching in linguistics and literature at the Department. The Department faculty and graduate students are engaged in a number of research studies in the most essential fields of Azerbaijani Studies.

One of the major focuses of the Department lies on compiling textbooks on Azerbaijani language and literature, the lack in which has become especially critical after the collapse of the Soviet Union. The old-fashioned textbooks can hardly satisfy the present day requirements; therefore, coping with this and other difficulties are urging the Department to focus on both programs and textbooks in these fields.

Department of Biological Sciences

As a multi-disciplinary department, the Department of Biological Sciences offers courses on Medical Biology, Microbiology, Parasitology Virology, Human Genetics, Immunology, and Hematology for the students of the

School of Medicine, Dentistry and Public Health, as well as, numerous other courses in various fields of Biological Sciences, such as: Introduction to Life Science, Ecology, Environmental Biology, Evolution of Life, Genetic Engineering, Biology Education, Biotechnology, etc. These courses are also available for students of other schools of University as electives on General Education Requirements.

All teaching faculty have strong academic background and advanced degrees in related fields and have published widely.

B.S. degree program in Biomedicine as well as other B.S., M.S. and Ph.D. degree programs offered by the Department or with its participation are designed to provide individual approach depending on the students' previous education and current research interests.

Specific research areas of the Department include studies of the structure and function of biomembranes, the mechanism of action ecological factors (UV-light, radiation, toxins and etc.) on organisms, distribution and frequencies of the normal traits and hereditary disorders in Azerbaijan population, mechanisms supporting the genetic polymorphism, contribution of genetic factors in development of multi-factorial diseases. Additional research opportunities include programs on gene regulation, microbiology, phytotoxins, cell-cell communication.

Department of Chemistry

The Department of Chemistry was established in 1994.

The Department conducts research and delivers courses in the following fields of study:

- General, inorganic and organic chemistry (Chemistry I)
- Physical chemistry (Chemistry II)
- Oil chemistry
- Environmental chemistry

Chemistry is also offered as an elective course for the General Education Requirements for students of other schools of the university.

The Department has a laboratory for experimental and research works.

The department also offers opportunities to combine traditional disciplines with other sciences to explore basic and applied research problems.

Research interests of the department are:

- Oil chemistry
- Polymer chemistry, i.e. chemistry of high-molecular compounds

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- Colloidal chemistry
 - Chemical technology
 - Other

Department of Computer Science and Engineering

The Department of Computer Science and Engineering, founded in 1994 offers flexible and innovative undergraduate and graduate programs in Computer Science and Engineering, namely, BS in Computer Science, BS in Computer Engineering and Management, MS and Ph.D. in Computer Science and Management. The goal of the Department is to produce and disseminate theory, principles, practice and know-how of computing in the information age, for the critical analysis, design, evaluation and improvement of computing systems and related areas of engineering.

The Department has three divisions:

- Computer Science
- Computer Engineering
- Electrical Engineering

Each division is responsible for the development of programs within its area.

Computer Science courses and research focus on software, ranging from theoretical models to practical applications.

Computer Engineering deals with digital design, computer hardware and architecture, software and programming, and the interrelationships between hardware and software.

Electrical Engineering involves the development and application of electronic technologies for generating, communicating and processing information.

All the Department programs are designed to meet the requirements of the students and professionals through building a strong platform for their future career development.

These programs aimed at alleviating the demand for computer engineers in industry, business and in higher education, focuses on the totality of the areas of Computer Science such as programming languages, computer architecture, algorithms, operating systems, computer networks, artificial intelligence and other core and supporting areas. Students combine these computer science studies with corresponding aspects of electrical engineering, such as circuits theory, signals and systems, electronics, integrated circuits and device utilization. Students

majoring in Computer Engineering and Management, as well as, Computer Science and Management should register for related courses from the Department of Economics and Management.

The Department also offers a number of courses to the students of other schools as part of its service to the University. These courses are designed to provide a sound understanding for effectively utilizing computers in various application areas.

On March, 2004 a Local Cisco Network Academy (LNA Cisco) launched its activities within the Department. LNA provides training for Khazar University students as well as students from other universities on Information Technology and prepares certified specialists in using network resources.

Faculty's ability to apply computer technology in teaching and learning processes, and to draw special attention to the research problems are advantages of the Department. Research activities are conducted in the following areas:

- Artificial Intelligence
- Data Communications and Networking
- Databases
- Pattern Recognition
- Multimedia Systems
- Computer Graphics
- Information Systems
- Digital Data Processing Devices

Department has Computer Center and laboratories served the instructional and research needs of students and faculty. They are equipped with modern computer and electrical engineering facilities.

Teaching and research interests of the Department encourage its contacts and cooperation with other educational and scientific institutions of the country and abroad. The strategy of the Department is further development and transformation into a dynamic and powerful structure with great educational and research potentials to achieve high standards.

Note: *Currently, the Department of Computer Science and Engineering is being re-organized into two separate departments – Department of Computer Science and Department of Engineering Science.*

Department of Dentistry

Newly-established (September 2004) Department of Dentistry offers study program of Doctor of Dental Surgery. The Department deals with the acquisition, dissemination and use of knowledge for improvement of

oral health. The Department prepared education programs in Anesthesia, Endodontics, Oral Diagnosis and Radiology, Oral and Maxillofacial Surgery, Implantology, Paedodontics, Prosthodontics, Orthodontics, Periodontics and Pediatric Dentistry.

Department of Economics and Management

The Department of Economics and Management (DEM) offers flexible and innovative undergraduate, graduate and doctoral degree programs that cover the main areas of business and economics. All of the departmental programs are designed to meet the requirements of the students and professionals through building a strong platform for their future career development. The aim of the DEM is to furnish the students with substantive decision-making skills and tools, as well as the functional knowledge required to effectively manage composite businesses in today's competitive global environment.

Under various partnership programs, the DEM is affiliated with a number of business departments of a leading US and European universities. It is for this reason that all of the faculty members of the DEM have been participating in academic training and development programs conducted overseas. In addition, scholars from partner universities take an active part in the processes of program validation/review, faculty training/development, curriculum development/assessment, etc., within the DEM.

At present the DEM consists of four divisions: Economics, Management, Accounting and Finance, and graduate programs. Each division, with its small administrative structure, is responsible for the development of programs within its area.

Research interests of the faculty members of the DEM cover the following subject areas: Economic Analysis, Development Economics, Corporate Governance, Decision Science, Finance and Banking, Management, International Trade and Business, Regional Economics, Information Technology, Economic and Business Education.

The DEM offers the following degree programs:

Undergraduate programs (4 years):

Bachelor of Business Administration with concentration in:

- Accounting
- Finance
- International Business
- Management
- Marketing

Bachelor of Science in:

- International Economics
- Information Technology

Graduate programs (1.5 - 2 years):

Master of Business Administration – general or with concentration in:

- Accounting
- Finance
- International Business
- Management
- Energy Management

Master of Public Health Administration (jointly with the School of Medicine, Dentistry and Public Health - under development)

Master of Science in:

- International Economics
- Information Technology

Research fields for Ph.D. degree (3 - 4 years):

- Economics
- Finance
- International Business
- Management
- Energy Management

Department of Education

The Department of Elementary Education is one of the main academic bodies of the School of Education conducting research and teaching in various fields of Education. The Department offers Bachelor of Science degrees in Elementary Education, in Mathematics and Computer Science in partnership with appropriate Departments as well as Education – related courses for other majors.

Main elements of the B.S. program offered by the Department are

- The study of broad liberal arts; basics of education and psychology; methods of teaching;
- Professional competence in various learning environments for children – first of all, the school and museums, theaters, hospitals, government and non-government agencies, the Nature, etc;
- Field experience, such as, practicum and internship;
- Basic research methods and techniques.

Research interests of the Department include, but are not limited to, curriculum and course development, educational psychology, evaluation of knowledge and skills, methods of teaching, educational administration, history and philosophy of education.

Department of English Language and Literature

The Department traces its origin to 1992. Today it is one of the largest departments at Khazar University. The faculty at the Department includes experienced scholars and teachers of English in Azerbaijan as well as visiting professors.

The Department of English intends to nourish students with strong language and communication skills, profound knowledge of British and American literature, and solid background in relevant areas, such as linguistics, and translation studies.

The Department participates in the projects of the Translation Studies Center, the Dictionary and Encyclopedia Center, the Teacher Training Center and Women Studies Center. The Department provides a wide range of teaching and research assistantships for graduate students.

The Department offers elementary, intermediate and advanced courses in English, British and American Literature and Language Studies. English courses meet academic needs of all undergraduate students toward University Requirements, Undergraduate majors in English and graduate programs.

The Department of English program for teaching English aims to provide a comprehensive coverage of the basic grammatical and lexical system of English, combined with extensive practice of the four language skills: reading, writing, speaking, and listening. It is intended for the students of all levels and schools at the University, where English is a primary language of instruction.

The programs of the Department are based mostly on interactive teaching materials in English, and consist of two counterparts: General English/English as a Second Language (ESL) and English for Specific Purposes (ESP). The latter component of the program includes the following courses:

- English for Economics and Management
- English for Law
- English for Social Sciences
- English for Computer Sciences
- English for Engineering
- English for Education
- English for Medicine

Graduate programs are available in Teaching English as a Second Language, Translation Studies, Linguistics, English Language and Literature, Interlingual Relations and interdepartmental programs in American Studies and British Studies. The program in Linguistics combines the study of Linguistics theory and its application.

The Department of English is also engaged in designing and implementing programs for teaching English to the professionals of various fields. The Department organizes certified seminars and workshops for secondary and high school teachers and refresher courses for refugee-teachers of English in various districts of Azerbaijan.

Teaching approach

- There is an emphasis on communication
- Deductive explanation of grammar is preferred
- Pronunciation is of importance with special attention being paid to intonation
- Group work and team projects are encouraged
- Teachers are viewed as facilitators and skills communicators rather than absolute authority
- The spoken language skills (listening and speaking) and the written language skills (reading and writing) are viewed as being of equal importance
- The cultural background of the target language is stressed
- There is a great interest in vocabulary, especially for reading purposes
- There is contextualization of all teaching points through the use of various teaching aids
- The use of the mother-tongue and translation are permitted
- Bilingual bicultural proficiency is seen as an ideal goal

Teaching Materials

Current trends in language teaching and learning stress the need for materials that are geared towards learners' interests.

The criteria for the choice of teaching materials are:

- that the themes provide content for discussion
- that the themes express problems of values
- that there be a variety of genres
- that the themes be relevant to the learners
- from credible sources

Teachers are advised to integrate the teaching of grammar with the teaching of other domains of the language. The grammar taught should be an integral part of the textbook chapter or teaching situation.

Testing and Evaluation

The following types of tests help teachers measure their students' skills and reinforce learning/teaching process:

- Placement tests
- Language sub-skills tests - measure the separate components of English, such as vocabulary, grammar and pronunciation
- Receptive tests - reading tests; students choose the letter of the right answer
- Productive tests - speaking exam, requires active and creative answers
- Listening test - measure the level of recognition and decoding the incoming utterance
- Subjective tests - translation and essay, where the ability to summarize is evaluated
- Diagnostic tests - to reveal students' strengths/weakness and to guide future instruction
- Progress tests - evaluation of small segments of the syllabus
- Achievements tests - measure progress in an entire course
- Proficiency tests - measure overall mastery of English in a particular setting

Recently, Translation Practice Center was established under the auspices of the Department of English Language and Literature.

Department of History and Archaeology

Department of History and Archaeology (formerly the Department of History), established in June 1993, is a university unit with wide academic and research interests. It envisages offering a minor in History, providing fundamental courses in the history of world civilizations, which cover such issues as history of ancient and medieval human societies, and history of Asian, European and American cultures.

The Department also provides courses related to University Requirements on the History of the Azerbaijani nation, including its evolution and development. Migration in the Far East, its influence on the formation of Azerbaijani ethnicity, historical development of relations of Azerbaijan with other Caucasus peoples and countries as well as Russia, Iran, Turkey, and other countries are also among the major topics of the programs developed and offered by the Department. Teaching and research interests of the department encourage its joint programs and connections with other research divisions of Khazar University, including the interdisciplinary program in Azerbaijani Studies.

Roundtable discussions with experts from various international and local institutions, numerous conferences and workshops conducted at the Department offer opportunities for scholars and students to debate around major topics in the field, exchange views and initiate and undertake joint research studies.

The Department publishes the *Journal of Azerbaijan Archeology*, covering new research in archaeology both in Azerbaijan and abroad.

The Department maintains cooperation with various educational institutions and historical museums. Azerbaijani history museums, the Palace of Shirvanshahs, Ancient Gobustan and historical attractions in various regions of Azerbaijan are among the most favorite places for the University students and visiting scholars.

Department of Internal Medicine

The Department of Internal Medicine is a new department that previously was a part of the Medical Science division. It was founded in 2005 and is located at the affiliated multi-disciplinary hospitals and partially, at Khazar University Hospital. The Department is involved in teaching such subjects as Introduction to Clinical Medicine, Doctor-Patient Relations, Internal Diseases, Infection and Tropical Diseases, Neuropathology, Endocrinology, Toxicology, Ophthalmology, Otology and Laringology, Anesthesiology, Pediatrics, Dermatology, etc.

The mission of the Department is to play a major role in the development of the School of Medicine, Dentistry and Public Health. All medical students participate in the clerkship and internship organized by the Department. The clinical experience is designed to build on the students' training in medical history and physical diagnostic skills, as well as their approach to the patients.

The Department is committed to the pursuit of the highest standards in education, research, and patient care. It is dedicated to:

- Developing leaders in clinical medicine and biomedical research by establishing educational programs for students and post-graduate trainees and an environment for nurturing academic and clinical development of the faculty;
- Expanding the frontiers of research through new discoveries in the health sciences and in understanding, detection, treatment and prevention of human diseases.

Department of Journalism

Established in 1994, the Department of Journalism offers both a Bachelor of Arts and Master of Arts degrees. The Department specializes in the following three fields of Journalism:

- TV and Radio Journalism
- Newspaper and Magazine Journalism
- Marketing and Advertising in Mass Media

The major in Journalism is offered by experienced journalists and is tailored to individual needs and interests of the students. The Department offers programs on mass media law and policy, social research related to mass media, film making/criticism, radio and TV production, and public relations. Additionally, journalism is also offered as a minor field of study for students majoring in English.

The faculty at the Department deems it important that students, along with professional training in their field, are able to examine both the existing situation and perspectives regarding the role of mass communications in Azerbaijan as well as in the USA, Europe, and other countries. In cooperation with Khazar University Press, the Department has translated several modern textbooks on journalism and mass media to address the needs of wide population of students and professionals.

Department of Law

The Department of Law is one of the first academic divisions established at Khazar University. High degree of innovation in both teaching and scholarship is one of the basic orientations of the Department in order to achieve new level of legal education required by the social life.

It is the School's and Department's Administration policy to compose the faculty of the specialists with a broad range of professional experience and wide academic interests and committed to teaching. The knowledge and experience of the department's faculty afford students the opportunity to examine the law in its broadest context and provide them with specialized courses in various areas of law.

Most members of the faculty are involved in certain activities abroad, experienced in private practice, and work as consultants and advisers to the governmental and non-governmental agencies. These activities of the faculty members complement and enrich their instruction and contribute to realizing a practical orientated legal education.

The teaching staff of the Department develops its skills by participating at various seminars and conferences both in and outside the country. In

all the courses, strong emphasis is placed on the development of skills, whether academic, e.g. those required by legal research, or "life skills", e.g. effective oral and written communication in a professional setting. A comparative analysis approach is another method used by the teaching staff, which considers rich experience of various legal systems and analyzes them during the teaching process.

Distinguished visitors from foreign countries, local specialists with established reputations as experts in different areas of law supplement the regular faculty.

It is the Department's philosophy that the proper education should help the student make the most of his/her capacity for a full life in the field of law:

- The legal education offered by the Department emphasizes the acquisition of broad and basic knowledge of law as well as concentration in a certain area of law.
- The legal education offered by the school pays prime attention to the development of intellectual and analytical abilities. The Department encourages independence and diversity of thought, seeks to educate graduates who know how to use reasoning processes, and can communicate and defend his ideas on the basis of evidence.
- The education includes teaching the techniques of the profession, equipping the graduates with skills necessary to enhance the effectiveness and efficiency of their professional activity.

The research programs of the Department include investigations in International Law, Human Rights, Comparative Constitutional Law, Business Law, Civil and Criminal Procedures.

Department of Law offers several academic programs in Law and International Law, designed to fit individual needs of students who seek a legal education.

The Department was the first law institution in Azerbaijan to offer original courses in Advocacy, Human Rights, Patent Law, Contract Law, International Humanitarian Law, Business Law, Corporate Governance, etc. At present, more than 50 courses are offered by the Department.

The Department of Law is very active in organizing various seminars and summer schools, as well as, implementing projects on law. The students of the Department actively participate in workshops, seminars, and international and local competitions.

The first Legal Clinic in the Caucasus was established in 1998 at the Department of Law. At the Clinic students can simulate various cases and provide clients with free legal assistance. Clinical programs give

students direct experience in the practice of law in particular areas. (See the Khazar Legal Clinic)

In its activities the Department of Law cooperates with a number of local and international NGOs, especially with Advocate-Service, the Young Lawyers Association of Azerbaijan, the Association of Women-Lawyers of Azerbaijan, the Society of Legal Education in Azerbaijan, the American Bar Association (ABA), Ombudsman office and the International Committee of a Red Cross.

The first Moot Court in Azerbaijan was established at the School of Law with support of the American Bar Association, Central European and Eurasian Law Initiative (ABA-CEELI). It provides opportunity for the students to gain both practical and theoretical skills in the Court.

The aim of another project with ABA-CEELI is to implement new methods in teaching and course development.

Department of Law also works with Corporate Governance project of the International Finance Corporation and the goal of the project is to develop professionals in corporate governance, it will also work with the Azerbaijani government authorities to improve the legislative framework related to corporate governance.

Department of Mathematics

Department of Mathematics, founded in October 1, 1993, offers programs leading to B.S. degree in Mathematics and Computer Science and MS and Ph.D. degree in Mathematics and Applied Mathematics. Some interdepartmental programs within Mathematics are available to students willing to combine their interests in Mathematics with other concentrations. The Department also serves all Khazar University schools delivering courses of Pre-calculus, General and Advanced Calculus, Differential Equations, Linear and Applied Algebra, Operations Research, General Statistics, as well as, Biostatistics and Business Statistics, Mathematics for Economics and Business, etc.

All programs and coursework reflect a broad range of areas in theory and application within the mathematical sciences. There is a choice of courses, which are similar in subject, but different in level.

There are four types of research-oriented curriculum:

- *Mathematics* is designed for graduate students with a strong interest in Mathematics
- *Mathematics and Computer Science*, in which Mathematics is studied on an equal basis with Computer science

- *Mathematics and Economics* in which students study strong links between Mathematics and Economics, particularly, mathematical models in Economics
- *Special applied mathematics areas* which represent research interests of mathematics faculty

Areas of current faculty research interest include functional analysis, operator theory, ordinary and partial differential equations, mathematical physics, algebra, mathematical economics, probability theory and mathematical statistics. In addition to these areas, coursework is provided in optimization and operation research, real and complex analysis, numerical methods, history and philosophy of mathematics.

The Department of Mathematics is the home of the *Khazar Journal of Mathematics*, published by the Khazar University Press.

The Department host seminars which consist of lectures in a numerous topics, reports by faculty or students on recent developments.

Before admission to candidacy for the Master's degree and Ph.D. in Mathematics, a student must obtain approval from the Department of Mathematics for an individual program. Each student is required to pass preliminary examinations. For additional information contact the Department of Mathematics.

Department of Modern Languages and Comparative Literature

Tremendous social significance, great need in highly qualified specialists equipped with professional knowledge of two different languages, and the claims laid by the University policy were the principal imperatives for the establishment of the department of Western Languages in 1995, renamed in 2004 into the Department of Modern Languages and Comparative Literature. Courses in French, German, Spanish, Italian and Russian languages are offered at the Department on a regular basis.

The main task of the Department includes the development of practical reading, speaking, writing, literary and translating skills of its students, drawn primarily from, but not limited to, the School of Humanities and Social Sciences and the School of Law. Courses focus on Western European cultures, covering literature, history, arts and modern life.

The Department participates in various interdisciplinary programs, including graduate program in European Public Affairs.

The faculty is comprised of experts with extensive work experience as translators and teachers in foreign countries, languages of which they offer in their courses.

Department of Music and Fine Arts

The Department of Music and Fine Arts provides opportunities for all students at the University to study variety of fine arts and music, regardless of their major field of study, since the courses offered by the Department constitute a component part of the University Requirements. The Department aims to provide training in traditional Azerbaijani fine and applied arts, including carpet making, contribute to the development of musical taste and knowledge of music and fine arts of Khazar's students as well as providing them with ample opportunities for performance, thus broadening students' artistic and intellectual skills and abilities. The Department's program strives to create an atmosphere of learning of Azerbaijani and world musical heritage and achievements in fine arts.

The Department offers elective courses in music, dancing, chorus, costumes design, jewelry art and carpet-making and plans to offer professional training leading to academic degrees in the above disciplines. Specialized courses in arts history, world arts and cultures, particularly Asian and European cultures, are also offered by the Department on a regular basis. In addition, the Department plays a key role in organizing cultural activities at Khazar University. For this, the Department administers two concert halls at the University's two campuses, including popular "Dunya" Concert Hall in downtown Baku. For details refer to The Campus and Support Services: Cultural Activities (also see the Center for National Costumes, the Jewelry Museum and the Carpet Museum).

Department of Eastern Languages and Religious Studies

This department has been established recently on the basis of the Department of Oriental and Islamic Studies and several interdisciplinary Area Studies programs. The Department aims to study Near and Middle Eastern, also South and East Asian nations from the perspective of language, religion, history, art, literature and other aspects of civilisation. In the field of the languages, the Department includes non-European languages such as Arabic, Persian, Turkish, Hebrew (as Middle Eastern languages) and Japanese, Chinese, Korean and Urdu language (as South and East Asian languages). Some of these languages, like Arabic and Persian at the moment have the status of minors for students of Humanities and Social Sciences and some other languages are offered as electives.

The Department also includes studying religions such as Judaism, Christianity and Islam (as Middle Eastern traditions) and Buddhism, Confucianism, Hinduism, Jainism, Shintoism, Taoism (as South and East

Asian traditions) which appeared in the motherland of these Middle Eastern and Far Eastern languages and turned to be an important part of the world's civilization. In the field of religious studies, it is aimed to research historical periods of these religious traditions and to study new religious movements, inter-religious relations, religious pluralism, religious dialogue, relations between religion and terror, etc. The main elective courses offered by the Department are: History of Religions, Inter-religious Relations, Philosophy of Religion, Research of Holy Books, Islamic History, Islamic Civilization, Islamic Philosophy, Islamic Law, Islamic Ethics, Sufism, etc.

Currently, in partnership with other relevant departments, the Department offers specific graduate-level Area Studies program with concentration in Middle Eastern, South and East Asian Studies and organizes public lectures, seminars and workshops for students and scholars in the field on a regular basis. The Department has published various articles, monographs and edited volumes on various areas of Religious Studies and languages. The Department supports several interdisciplinary graduate programs leading to Master's and Ph.D. degrees.

One of the major focuses of the Department lies in translating articles and books from Persian and Arabic into Azerbaijani and vice-versa, in close cooperation with Translation Studies Center at the University.

Department of Petroleum Engineering

The Department of Petroleum Engineering aims to provide advanced training for petroleum engineering professionals to enable them to create and apply innovative technologies in drilling, production and reservoir engineering as well as efficiently utilize their knowledge and skills to find solutions to environmental issues related with petroleum industry.

Main aim of the Department is to prepare qualified engineers capable for undertaking professional responsibilities for optimal development and prudent management of oil and gas resources.

Department offers undergraduate and graduate programs in Petroleum Engineering and Management, namely, BS, MS and Ph.D. in Petroleum Engineering and Management. For the management courses, students should register for related courses from the Department of Economics and Management.

The objectives of the undergraduate program is to enable graduates to apply basic mathematics, science, and engineering knowledge to identify, formulate, and solve petroleum engineering problems, design

and conduct experiments, analyze and interpret data, and design systems, components or processes using modern techniques, skills, and engineering tools suitable for engineering practice.

The objectives of the graduate program in Petroleum Engineering and Management can be summarized as providing specialization in various fields of Petroleum Engineering and also developing skills of analysis and synthesis necessary for initiating and conducting research and development activities. The master program is designed to provide in-depth theoretical and applied training needed to function successfully as professionals. The doctoral program is designed to prepare student for advanced study and research. An individual program of study is designed for each student considering his/her particular academic needs and research interests.

The main discipline specific modules for the courses offered by the Department are:

- Petroleum Geosciences
- Reservoir Management and Evaluation
- Reservoir Engineering
- Production Technology
- Drilling Engineering

Courses consist of lectures, seminars and project works encompassing a wide range of petroleum engineering and geo-science fundamentals pertinent to the modern petroleum industry. Project work provides an opportunity for ideas and methods, accumulated through lectures and tutorials, to be applied to real field evaluation and development design problems. The courses are designed to equip students with technical expertise and knowledge needed in a dynamic industry.

The activity of Department also includes research in different fields of Petroleum Engineering. Main directions of research activities are:

- Exploration, Production and Reservoir Characterization
- Enhanced Oil Recovery
- Petroleum Reservoir Engineering
- Natural Gas Engineering
- Reservoir Management and Evaluation
- Application of Non-Newtonian Systems in Oil Production
- Petroleum Geosciences.
- Well Logging.

Diverse academic disciplines of the department enable both research and training to be pursued in a multi-skill environment, which is essential to the modern oil and gas industry. The department has

pursued and will continue to pursue relevant research to meet needs of the industry.

Laboratories of the School of Engineering and Applied Science are equipped for undergraduate student work as well as for graduate research programs. They are integrated with other petroleum research and project institutions in Baku through close cooperation. As fieldwork and laboratory training is highly necessary for petroleum engineering specialists, laboratories are expanding their facilities to deal with a variety of oil industry problems.

Department has developed strong cooperation with many of transnational and local oil companies operating in Baku, such as State Oil Company of Azerbaijan Republic (SOCAR), Azerbaijan International Operating Company (AIOC), British Petroleum (BP) Company, StatoilHydro, Schlumberger Logelco, Inc., UNOCAL Khazar Ltd., McDermott International, Inc., Karasu Operating Company, EXXONMOBIL Azerbaijan Operating Co.

The BP scholarship scheme, first of its kind in Azerbaijan, provides opportunities to students admitted to the University with outstanding scores to receive financial support to pursue their studies at the Department as well as for their internships and future employment. The Department is one of the leading departments of the University in terms of developing University-industry relations.

Under various partnership programs, the Department is affiliated with a number of Petroleum Engineering departments of leading universities. Partnership project between Khazar University and Heriot-Watt University in Edinburgh (Scotland) includes faculty exchange, advanced training, and providing master and other programs in Petroleum Engineering, including distance learning, particularly for students employed in BP.

Currently, with support of StatoilHydro, Khazar University is carrying on negotiations with the University of Stavanger and University of Bergen in Norway, which envisage student exchange, research cooperation, and establishment of double degree programs between these universities.

Faculty and students of the Department of Petroleum Engineering and some other departments of the School of Architecture, Engineering and Applied Science are members of the Society of Petroleum Engineers (SPE). There is Khazar chapter of SPE, and the scientists, engineers, visiting professors and specialists from leading universities and oil companies are regularly invited to SPE meetings to promote academic excellence. These persons bring the latest developments in their areas

of interests to the attention of students and faculty, and their visits present opportunities to exchange scientific ideas.

Department of Philosophy and Human Studies

The Department originally was conceived and organized in 1992 as a multidisciplinary academic unit aimed at providing teaching and research in various fields of humanities and social sciences. At present, the basic fields of academic and research activity of the Department are grouped into three divisions:

- Philosophy (comprising a wide range of philosophical disciplines concerning history of philosophy, philosophy of religion, political philosophy, relations between philosophy and literature, and philosophy and linguistics)
- Sociology
- Psychology
- Other fields of humanities and social sciences (e.g. study of Arts and Culture, Social and Cultural Anthropology)

Various courses offered by the Department are taught practically in all schools of the University as electives in general education requirements. The disciplines offered by the Department are included as the major, major related and minor courses required for bachelor and master degree programs at the School of Law, School of Humanities and Social Sciences, and School of Economics and Management.

The faculty of the Department is composed of scholars with solid teaching experience and varied research interests. All teaching faculty members have strong academic background in their respective fields and have published widely. Distinguished visiting professors from foreign countries complement the full-time faculty.

The Department supports several interdisciplinary graduate programs leading to master's and Ph.D. degrees.

Department of Physical-Chemical Medicine

The Department of Physical-Chemical Medicine (DPCM) is multidisciplinary and encompasses a wide spectrum of fundamental medicine and biomedicine.

The DPCM offers the courses of chemical and physical basis of biological processes in living organisms: Medical Physics, Organic Chemistry, Biophysics, Biochemistry, Clinical Biochemistry, General and Clinical Pharmacology for the students of the School of Medicine, Dentistry and Public Health. The Department also offers Master and PhD programs in

various areas of Physical-Chemical Medicine and Cell Biology jointly with different departments of the School of Medicine, Dentistry and Public Health.

Taught courses can be divided into 3 successive levels that promote quality of education:

- 1st level - the fundamental basis courses.
- 2nd level – Physical and chemical basis of biological processes in human organism.
- 3d level – Molecular Basis of Pathological Processes.

Communicatively oriented programs ensure obtaining of the knowledge of modern fundamental medicine. The DPCM offers different elective courses including Cellular and Molecular Neurochemistry, Neuropharmacology, Behavioral Pharmacology, Molecular Approaches to Drug Action, Biological Catalysis, etc.

The Department collaborates in research and education with different departments of Khazar University and other universities in the country and abroad.

The research areas of department include physical fields, UV-lights, radiations, free radicals, chemical factors of endogen and exogen origin, investigation of patho-genetic mechanisms of some immune, neurology and other diseases, elaboration of treatment methods of different diseases.

Department of Physics

The department was founded in 1993. The department is basically scheduled as a research center and learning unit for students of the School of Architecture, Engineering and Applied Science. The department also offers elective courses for students of other schools of the university. These are:

- Physics for non-engineers
- Astronomy

The department has laboratories for practical classes and research. Original laboratory works are necessary in support of theoretical materials given during the lectures.

The department faculty carries out research programs in the following fields:

- Production and transmission of electrical energy
- Renewable forms of energy (solar, wind etc) and their practical use
- Composite materials and converters on their base

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- Non-linear hydro-dynamics and heat transfer
 - Other fields

The department also offers opportunities to combine fundamental disciplines with other branches of sciences and technology in order to carry out interdisciplinary research in areas like:

- Physical methods for improving the technological processes in oil industry
- Heat transfer and fluid mechanics enforced by different physical fields
- Effect of different physical fields (magnetic, ultrasonic etc) properties of fluids
- Effect of physical fields (electric, magnetic, electromagnetic) on biological objects
- Other areas

The department has close relations with different scientific institutions and research centers in the country and abroad.

Department of Physiology

The Department of Physiology was founded in 1992, concurrently with the opening of the Khazar University Medical School. The Department has a long-standing commitment to education and research in the biomedical sciences. The academic mission of the Department of Physiology is to conduct research and teaching that elucidates the functioning of tissues and organisms, and to integrate information from studies on single molecules and cells with studies from intact organisms. Laboratory research experiences are designed to provide students with academic knowledge and necessary abilities to apply their experimental tools and analytic skills to pursue career in fundamental biomedical research. Students are provided with opportunities for hands-on experience with a full range of modern research techniques, including electrophysiological study of whole organism, and a wide range of innovative biophysical, biochemical, and physiological methodologies. The courses on Physiology and Pathophysiology consist of didactic lectures covering basic science and clinical correlations, quizzes, conferences, small group discussions, student presentations, laboratory exercises, review sessions, web-based instruction, and exams.

The Physiology Department provides educational training in normal cellular, organ, and organ system functions in the M.D. and Ph.D. programs.

Research in the Department focuses on study of the mechanisms of normal and pathological functioning of cells and organs of body.

During the teaching process at the Department lab animals are used extensively. The Department has its own laboratories furnished with the equipment necessary for their teaching and research activities.

Apart from the courses designed for medical students, the Department also offers courses for non-medical students within the Life Science division of General Education Requirements, such as, Physiology and Psychology of Sexual Relations, and Families and Parenting.

Department of Political Science and International Relations

Department of Political Science and International Relations has been offering undergraduate and graduate programs since 1995.

The undergraduate program offers a broad range of courses in international relations, political theory, and area studies leading to the Bachelor of Arts degree in Political Science and in International Relations. Graduate programs leading to the Master of Arts and Doctor of Philosophy degrees are offered at the Department and focus in several areas: Conflict Studies, Political Theory, and Area Studies, including European Public Affairs, Middle Eastern Studies, East Asian Studies, and Caucasus Studies.

The faculty is composed of primarily representatives of the younger generation of Western-educated specialists in Political Science with research and professional experience in Western Europe, North America, and other advanced industrialized countries.

Jointly with the *Institute of Politics* the Department conducts a number of scholarly events annually, including annual moot courts on political philosophy, crisis simulation exercises, executive education workshops, and conferences.

Department of Psychiatry and Behavioral Sciences

The Department of Psychiatry and Behavioral Sciences is organized in 1993 as an academic unit for the purpose of providing teaching and conducting research in various fields of psychology and psychiatry.

The Department offers interdisciplinary courses related to the mental health issues for medical students. These courses cover historical and theoretical questions of behavior, theories of personality, basic psychopathology and psychological consequences of physical illness.

Students are assigned to the clinical clerkships on the in-patient psychiatric wards at the Psychiatric Hospital. Clinical responsibilities

include obtaining admission history and physical examination, formulating psychodynamic aspects of case, etc.

Students can take part in different seminars and discussions, such as the ones on Research Methods in Psychology, Evolution of Intelligence, Culture and Human Behavior, and Contemporary Problems in Mental Retardation. These seminars present the concepts, issues and research techniques in the area of mental retardation. Questions concerning causes and treatment of developmental disabilities of retarded individuals are discussed in these seminars.

Courses designed by the Department in various fields of Psychology, such as, human and animal behavior, cognition, personality, psychobiology, measurement and psychometrics, educational psychology, clinical education and developmental psychology are offered for various University majors.

Research interests of the Department include, but are not limited to, Childhood Psychopathology, Social Psychology and Political Psychology.

The Department also offers the following topics for workshops and seminars:

- The Individual in Culture
- Parents and Child Psychotherapy
- Psychological Aspects of Mental Retardation
- Nursing Care of Developmentally Disabled

A number of instructors and professors of the Department have regularly visited different American and European educational, research and training centers to enhance their professional qualifications.

Department of Public Health

The Department of Public Health is an integral part of the School of Medicine, Dentistry and Public Health. The aim of Public Health as a field of study is primarily to prevent disease, to prolong life and to promote health, which can be affected by many factors in people's lives. Accordingly, primary goals of Public Health are to find the best ways of preventing diseases; to establish ways of providing services to those requiring health care; to provide new and valuable evidence about the factors influencing health and diseases, etc.

The Department involves doctors, educationalists and many others who are interested in health and committed to teaching and preparation of educational programs.

The teaching activity consist of undergraduate training for medical students and of postgraduate training for students from various disciplines seeking to specialize in epidemiology, health services research, public health and public health administration.

The Department offers courses for Master of Public Health Administration degree program (which is under development) and electives for major and non-major students. Course offered by the Department include Epidemiology; Social Epidemiology; Biostatistics; Health, Safety and Environment; Legal and Ethical Aspects of Health Care; Public Health System and Policy Development; Management of Health Care Services and Organizational Behavior; Financial Management in Healthcare System; Health Care Information Systems; Research Methods in Health Care System; Comparative Healthcare; Health Education; Nutrition and Health; Reproductive Health; Environmental Health; Occupational Health; etc.

The Department also participates in various collaborative research and teaching programs. Several staff members hold advisory positions at scientific and non-government organizations.

Department of Surgery

The Department of Surgery was established in 2005 on the basis of Division of Medical Science and affiliated multi-discipline hospitals. The fundamental mission of the Department is to provide excellence in patient care, education, clerkship and internship in basic science and clinical research assigned at affiliated medical centers. The Department unites different surgical divisions and provides education in General Surgery, Surgical Oncology and Endocrinology, Gastrointestinal Surgery, Traumatology and Ortopedics, Vascular Surgery, Thoracopulmonary and Cardiovascular Surgery, Urology, Neurosurgery, Anesthesiology and Reanimatology, and Gynecological Surgery and other subjects during the three senior years.

Each division is comprised of faculty members, who are leaders in their fields of specialization and highly dedicated to resident education and clinical training. Their clinical, educational and scientific activities are devoted to providing the best possible patient care and the generation of new knowledge. Their pursuit of this goal is reflected in their strong commitment to student teaching.