



UNDERGRADUATE PROSPECTUS 2020

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INTRODUCING
NAZARBAYEV
UNIVERSITY

ABOUT US

Nazarbayev University is an innovative, autonomous university dedicated to educating and inspiring the next generation of leaders. Our graduates in the fields of science, public administration, and technology are already shaping our world and creating a positive economic growth for our economy.

Instead of restricting your higher education, we promote an academic environment where you are free to follow your passions. We provide the most advanced tools possible to facilitate your research on the world's next big innovation from Nur-Sultan city, Kazakhstan.

Nazarbayev University (NU) was founded by the first President of the Republic of Kazakhstan, Nursultan Nazarbayev in 2010. The University aims to be a world-class research university combining quality education, influential research and visionary innovation. Throughout its history, NU has established values and standards to achieve educational and research excellence, meet both the local and global community's expanding needs and challenges, and prepare graduates ready for the future.

In 2018, NU adopted a new Strategy for 2018-2030. The Strategy intends to prepare the university for change in the age of globalization and technological disruption.

LEARNING FOR THE FUTURE

NU MANDATES

HIGHER EDUCATION REFORM LEADERSHIP

To imbue Kazakhstan's higher education system with global standards and systems, sharing of NU's experience and lessons learned with other universities in Kazakhstan is a high priority.

ACADEMIC EXCELLENCE

To develop and maintain a culture of academic excellence.

RESEARCH EXCELLENCE

To develop a faculty-led program of worldclass research and partner with the world's best researchers and research institutions.

A MODEL FOR CREATING HEALTHCARE SERVICES

To establish an academic healthcare system that will serve as a model for healthcare services throughout Kazakhstan.

INNOVATION AND TRANSLATION OF RESEARCH INTO PRODUCTION

To become Kazakhstan's main driver of innovation, leading the way for Nur-Sultan city to become a regional innovation hub.



WHY NU?

WORLD-CLASS FACULTY

NU places a high premium on faculty excellence and diversity. We are building an internationally competitive researchactive faculty with many winners of awards and members of honorary and professional societies.

Our diverse faculty hails from 56 countries.

Top 10 countries of origin are the USA, UK, Canada, Greece, Italy, South Korea, Russia, Australia, Turkey, and India.

NU faculty and teaching community consists of 477 faculty (including 28 postdoctoral scholars) and 82 teaching assistants recruited through an internationally competitive hiring process

RESEARCH UNIVERSITY

NU is committed to achieving excellence in research, and to ensuring that research contributes to the socio-economic development of Kazakhstan, the region, and the world. According to the NU Strategy 2030, we will continue to develop an enabling ecosystem to build research capacity to tackle global challenges in partnership with government, industry, research centers and other stakeholders.

We are building an institutional research culture starting with our undergraduate students. NU offers its students comprehensive research experience and exposure to research frontiers. With support of our faculty and researchers, students participate in multidisciplinary projects and competitions, publish international research publications and aim to contribute to national and international discourse.

Key research directions:

- Advanced materials, energy & sustainable development
- Anthropology, sociology & history
- Artificial intelligence, robotics & systems
- Biomedicine, neurosciences & healthcare
- Computer engineering & data sciences
- Construction, infrastructure, transport systems & smart cities
- Education
- Eurasian studies
- Finance, markets & governance
- Oil, mining, geosciences & resource management
- Physics & space exploration

>2500 PUBLICATIONS

12.6% of publications in the top 10% most cited publications worldwide

>1100 INTERNATIONAL COLLABORATING INSTITUTIONS

268 research & teaching laboratories

WHY NU?

MODERN CAMPUS WITH STRONG INFRASTRUCTURE AND FACILITIES

The NU campus is devoted to help students, faculty, and staff experience the full scope of university life. Through a wide range of services and opportunities, we strive to build a thriving community where you can live, study, develop ideas, grow personally and professionally, and enjoy life.

Many daily-life facilities, such as grocery stores, barbershop, laundry, library, sports center and banks are available within the campus.

The residential buildings are connected with the University's main building via the SKYWALK, a contemporary architectural solution shielding the residents from the harsh weather conditions.





WHY NU?

INTERNATIONAL ENGAGEMENT

Internationalization for NU goes beyond student and faculty mobility and covers largescale activity related to the University's academic, research and innovation activities. The priorities for internationalization include strengthening strategic partnerships and research collaborations.

STRATEGIC PARTNERS PARTNERS SUPPORTING NU'S INSTITUTIONAL AND ACADEMIC DEVELOPMENT:

- Cambridge University (UK);
- Colorado School of Mines (USA);
- Duke University (USA);
- Lawrence Berkeley National Laboratory (USA);
- National University of Singapore (Singapore);
- Oak Ridge Associated Universities (USA);
- University of Pennsylvania (USA);
- University of Pittsburgh (USA);
- University of Pittsburgh Medical Center (USA);
- University of Wisconsin-Madison (USA).

>700 NU STUDENTS

- have had study abroad experience since 2013

-300 INTERNATIONAL STUDENTS

-100 NU STUDENTS

- have attended cultural summer schools abroad since 2016

NU IS A MEMBER OF GLOBAL AND REGIONAL ASSOCIATIONS:

- International Association of Universities
- Asian Universities Alliance
- University Alliance of the Silk Road

WHY NU?

ACCESS TO GLOBAL DIGITAL LIBRARIES

In accordance with the Strategy of Nazarbayev University (NU) for 2013-2020, the NU mission is "to be a model for higher education reform and modern research in Kazakhstan and to contribute to the establishment of the capital as an international innovation and knowledge hub."

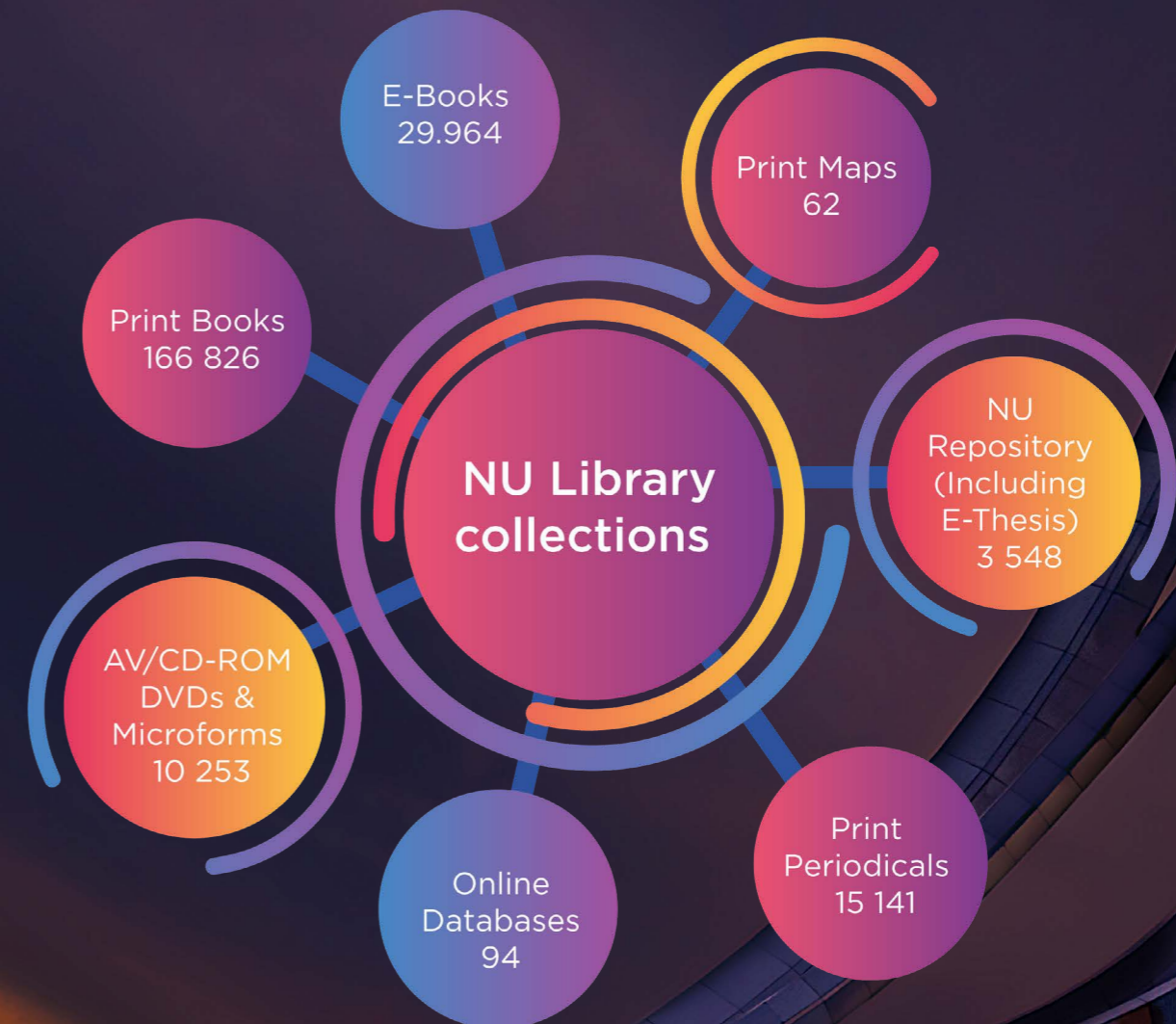
To support the NU Strategy, the Library:

Provides access to licensed and open research and academic databases, as well as an electronic documents delivery service;

- Develops its own collections and maintains the NU Repository;
- Enhances library services, as well as creates the comfortable library environment for

users and develops the library IT-infrastructure;

- Develops high-level library and information professionals
- Provides 24/7 library access and rooms for users with special needs, including the room for kids
- Transmits and popularizes advanced international library experience and practice.



WHY NU?

LOCATION THAT MATTERS

Kazakhstan is the ninth largest country in the world in terms of territory and is endowed with abundant natural resources. Since its independence over 25 years ago, the country has transformed itself into an upper middle-income country with a dynamic market-oriented economy where more than 120 ethnicities peacefully live together.

In 1997, the capital of the country was moved to the middle of the northern steppes. The capital was named Astana and renamed Nur-Sultan city in 2019. Nowadays, Nur-Sultan city has risen to become an important industrial and cultural center of Kazakhstan with a modern and even futuristic architecture. The population of the city has reached more than 1 million people with a concentration of talented youth, creating a forward-looking vibe.

CAMPUS MAP

- Main building
- Academic Buildings
- Recreational buildings and places
- Sport buildings and fields
- Checkpoint
- Student dormitories (with pharmacy, mini market, canteen, laundry, shoe repair)
- Faculty and Staff housing (with mini market, child care center, gym, beauty salon)

Key

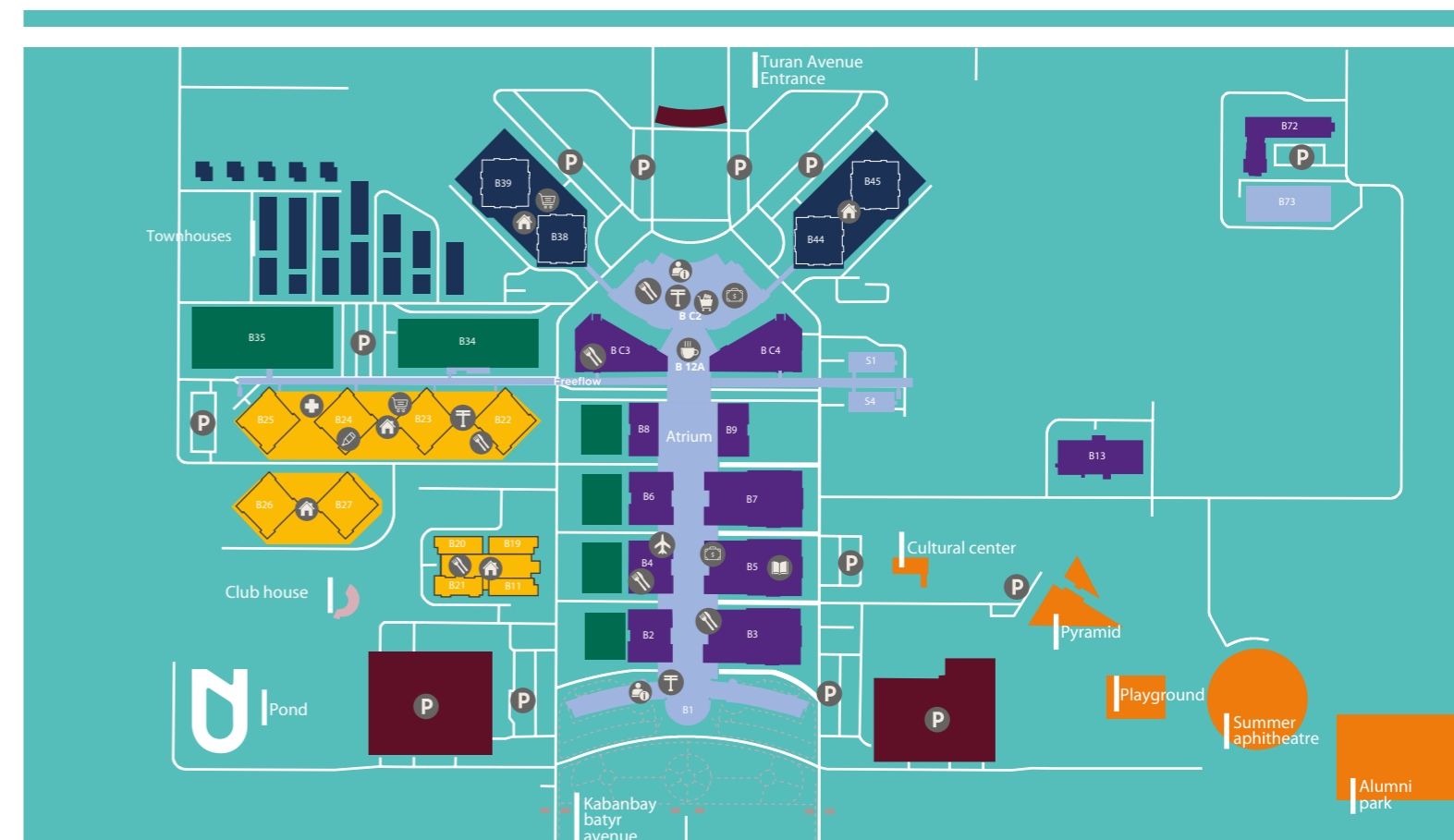
- Admissions Department
- Bursars Office
- Medical Centre
- Café or canteen
- Parking
- Library
- Coffee Shop
- Cash Machines
- Accommodation Centre
- Shop

- Air ticket office
- Stationery shop
- NU shop (books, and souvenirs)

Blocks

- B1- Main building
- B12A-New Atrium
- BC2- Main building
- B2- Center for Preparatory Studies
- B3- School of Engineering and Digital Sciences
- B4- Canteen
- B5- Library and IT services
- B6- School of Mining and Geosciences
- B7- School of Engineering and Digital Sciences, School of Sciences and Humanities
- B8- School of Sciences and Humanities

- B9 - NU Research and Innovation Sytem, Astana Business Campus, students' labs
- BC3-Graduate School of Business, Graduate School of Public Policy, Graduate School of Education
- BC4-Multidisciplinary Research Center
- BS1-Laboratories
- BS4-Laboratories
- B35-Athletic Center
- B34-Sports Center
- B13-Technopark
- B72-Administrative household
- B73-Boiler room



APPLYING TO NAZARBAYEV UNIVERSITY

APPLICATION OVERVIEW

Applicants may participate in the competition to be admitted to Nazarbayev University undergraduate programs in one of Nazarbayev University undergraduate Schools.

School of Engineering and Digital Sciences
 School of Medicine
 School of Mining and Geosciences
 School of Sciences and Humanities

WHO CAN APPLY FOR UNDERGRADUATE ADMISSION?

- secondary school final year students or graduates with certificate or its foreign equivalent or certificates/ diploma on completion of a college, A-Level or UK Foundation Program;
- NIS Grade 12 certificate final year students or graduates;
- IB Diploma Program final year students or graduates;
- winner/ prize-winner of the International Subject

Olympiads awarded by gold, silver and bronze medals for the last three years and Republican Olympiad winners/ prizewinners awarded by gold and silver medals for the current academic year

- transfer students, applicants who completed at least one academic year of an undergraduate program at a universities with CGPA not less than 3.0 out of 4.0

HOW TO APPLY?

Stages for selection competition
 “Nazarbayev University” state grant:

- Online application
- Shortlisting
- Submission of the hardcopies of documents
- Decision

ONLINE APPLICATION SYSTEM

AS THE FIRST STEP IN THE APPLICATION PROCESS, APPLICANTS MUST GO THROUGH AN ONLINE REGISTRATION PROCESS AT [ADMISSIONS.NU.EDU.KZ](https://admissions.nu.edu.kz)
 YOUR ONLINE APPLICATION STEP-BY-STEP

<p>STEP 1: Create your personal account</p>	<p>Go to www.admissions.nu.edu.kz portal, press the “Sign up” button” and fill out the required information in English. Confirm the registration by clicking on a link sent to your mailbox. Carefully read the instructions provided in your personal account.</p>
<p>STEP 2: Complete your application form and attach the required documents:</p>	<ol style="list-style-type: none"> 1. Scanned copy of the National ID card or passport; 2. Scanned copy of secondary school or higher education institution certificate (Attestat/Diploma) with final academic performance or certificate from the school (spravka); 3. Personal Statement in English; 4. Valid official IELTS or TOEFL certificate; 5. Copies or/and valid official test reports of SAT or ACT, SAT Subject (if required).
<p>STEP 3: Pay the application fee</p>	<p>Application fee is paid online via your personal account with a bank card authorized for online/internet transactions. All Application Fees are non-refundable</p>
<p>STEP 4: Finish the registration process</p>	<p>After completing all above-mentioned steps please press the SUBMIT APPLICATION button. After submission applicants can't change their application forms</p>
<p>Further steps</p>	<p>If you faced any difficulties with the registration or online application, please contact info_admissions@nu.edu.kz referring to your IIN and/or Applicant ID while sending us your requests.</p>

ENTRY TESTS

WHAT KIND OF TESTS SHOULD BE TAKEN BY APPLICANTS?

1

SAT REASONING TEST (SAT – Scholastic Aptitude Test or Scholastic Assessment Test) is a standardized test for college admissions in USA. The SAT Reasoning Test consists of three sections: Mathematics, Critical Reading and Writing.

Detailed information available on <https://www.collegeboard.org>.

OR

ACT (American College Testing) – a standardized test for secondary school achievement and college admissions in USA. The test has an optional 30 minutes long writing section (ACT with writing results).

Detailed information available on <https://www.act.org>.

2

SAT SUBJECT TEST (SAT – Scholastic Assessment Test) – a standardized test to identify students’ aptitude to study certain subjects to apply to the undergraduate program in USA higher educational institutions. There are 20 SAT Subject Tests in five general subject areas: English, history, languages, mathematics and science.

Detailed information available on <https://www.collegeboard.org>.

3

IELTS (International English Language Testing System) – a standardized English proficiency test administered by the British Council, University of Cambridge ESOL Examinations, and IDP Education Pty Ltd;

OR

TOEFL (Test of English as a Foreign Language) – a standardized English proficiency test developed by the Educational Testing Service (ETS) (Princeton, New Jersey, USA) in the format of TOEFL iBT (Internet-based Test) and TOEFL PBT (Paper-based Test).

1. MINIMUM REQUIREMENTS FOR SECONDARY SCHOOL FINAL YEAR STUDENTS OR GRADUATES WITH CERTIFICATE OR ITS FOREIGN EQUIVALENT OR CERTIFICATES/ DIPLOMA ON COMPLETION OF A COLLEGE, OR A-LEVEL OR UK FOUNDATION PROGRAM AND FOR TRANSFER STUDENTS:

SCHOOLS	SAT SUBJECT TEST	SAT REASONING TEST AND ACT	IELTS/TOEFL
School of Sciences and Humanities	Not required for Humanities majors SAT Subject Test – Math and Physics with at least 600 in each subject for applicants who selected Math and Physics majors OR SAT Subject Test – Chemistry and Biology with at least 600 in each subject for applicants who selected Chemistry and Biology majors.	SAT Reasoning Test with writing part – 1240. Essay is required, no minimum score OR ACT with writing part – composite score not less than 27. Writing part is required, no minimum score.	IELTS – no less than 6.5 overall (with at least 6.0 in each sub-score) or TOEFL IBT – 79 (Reading – no less than 13, Listening – no less than 12, Speaking – no less than 18, Writing – no less than 21) or TOEFL PDT* – 574 *TOEFL PDT is admitted only from the international applicants from the countries where an official IELTS and TOEFL IBT are not available
School of Engineering and Digital Sciences	SAT Subject Test – Math and Physics with at least 600 in each subject		
School of Mining and Geosciences			
School of Medicine	Not required		

2. MINIMUM REQUIREMENTS FOR NIS GRADE 12 CERTIFICATE FINAL YEAR STUDENTS OR GRADUATES:

SCHOOLS	NIS GRADE 12 CERTIFICATE SCORES	IELTS/TOEFL
School of Engineering and Digital Sciences	Not less than ABB	IELTS – no less than 6.5 overall (with at least 6.0 in each sub-score) or TOEFL IBT – 79 (Reading – no less than 13, Listening – no less than 12, Speaking – no less than 18, Writing – no less than 21) or TOEFL PDT* – 574 (*TOEFL PDT is admitted only from the international applicants from the countries where an official IELTS and TOEFL IBT are not available
School of Medicine		
School of Mining and Geosciences		
School of Sciences and Humanities		

3. MINIMUM REQUIREMENTS FOR IB DIPLOMA PROGRAM FINAL YEAR STUDENTS OR GRADUATES:

SCHOOLS	IB DP SCORES	IELTS/TOEFL
School of Engineering and Digital Sciences	Not less than 30 total score and 4,4,5 for 3 High level subjects	IELTS - no less than 6.5 overall (with at least 6.0 in each sub-score) or TOEFL IBT - 79 (Reading - no less than 13, Listening - no less than 12, Speaking - no less than 18, Writing - no less than 21) or TOEFL PDT* - 574 *TOEFL PDT is admitted only from the international applicants from the countries where an official IELTS and TOEFL IBT are not available
School of Medicine		
School of Mining and Geosciences		
School of Sciences and Humanities		

4. MINIMUM REQUIREMENTS FOR WINNERS OF INTERNATIONAL AND REPUBLICAN OLYMPIADS*:

SCHOOLS	REPUBLIC OLYMPIAD	OR INTERNATIONAL OLYMPIAD	IELTS/TOEFL (INTERVIEW WITH ADMISSIONS COMMITTEE IS REQUIRED)
School of Engineering and Digital Sciences	Gold and silver medals (I,II) for the current academic year	Gold, silver and bronze medals (I,II, III) for the last three years	IELTS/TOEFL is required, no minimum score
School of Medicine			
School of Mining and Geosciences			
School of Sciences and Humanities			

*List of International and Republic Olympiads can be found on the Nazarbayev University website.

APPLICATION TIMELINE

OCTOBER - APRIL

ONLINE APPLICATION PERIOD

- Choose your course
- Prepare your personal statement
- Prepare your documents
- Check if you need to take a test
- Find and register with the test centre
- Take your test
- Submit your online application

SHORTLISTING

The Admissions Department process and evaluates your application and documents for further decision.

JUNE - JULY

DECISION

- Admission offers are sent out by the Admissions Department to successful applicants.
- Submission of hardcopies of documents results at the address:

Admissions Department
Nazarbayev University, Block 1
53 Kabanbay batyr street
010000 Nur-Sultan
Republic of Kazakhstan

AUGUST

ARRIVAL AT NU & START OF STUDY

- Dormitory check-in
- Orientation week
- Class starts

Provided application timeline is tentative and may be different for different schools. Please visit our admissions webpage for the up-to-date information: NU.EDU.KZ

INTERNATIONAL STUDENTS

Nazarbayev University welcomes applications from international candidates. We believe that a multinational environment will facilitate exchange of advanced knowledge and best practices, and arm our students with a global outlook and intercultural competencies, which are nowadays highly in demand to be competitive on the modern internationalized labor market. Application process for each program for international applicants is the same as for applicants from Kazakhstan.

SCHOLARSHIPS

Abay Kunanbayev scholarship

The merit-based Abay Kunanbayev scholarships are available for international candidates, recommended for admission. This scholarship covers tuition fee, basic medical insurance and a monthly stipend.

Guaranteed citizenship-based scholarships

While the number of Abay Kunanbayev scholarship is limited, international candidates, recommended for admission, are still eligible to receive from 50% to 90% scholarship based on their citizenship only.

ARRIVAL TO KAZAKHSTAN

Find out about living and studying in Kazakhstan and visa requirements on our International Cooperation webpage:
nu.edu.kz/about-nazarbayev-university/international-cooperation.

STUDENTS WITH DISABILITIES

NU is committed to promoting diversity, equity and inclusion. The University campus and facilities are constantly being improved to meet the needs of our students and staff with disabilities.

Our priorities:

- ensuring barrier-free and equal access to university facilities and infrastructure;
- raising awareness of inclusive education inside and outside the NU community;
- building the staff's capacity to work in inclusive settings.

Assistive Technologies are available at the University Library to support NU students, faculty, staff and guests with visual impairment. It includes the following hardware and software:

- JAWS - screen-reader;
- Everest V4 - Braille embosser;
- Duxbury - Braille Translator;
- Zyfuse Heater - to produce tactile graphics;
- Focus Blue - Braille display;
- OpenBook 9.0 - e-text converter and reader;
- Poet Compact 2 - reading machine.



EQUAL OPPORTUNITIES TO ALL



At Nazarbayev University, we are committed to equality of opportunities. We welcome applications from anyone with the potential to succeed in higher education. The University has a merit-based system of admission and aims to ensure that all students are treated equally, irrespective of race, colour, ethnic origin, gender, sexual orientation, marital or parental status, age, disability, political or religious belief, or socio-economic class.

FEES & FUNDING

TUITION FEES

Admission to a fee-paying education is carried out on a competitive basis in accordance with the Rules for Admission of the corresponding degree program. The fees for tuition are indicated in the corresponding section of the program on the website.

Fees for accommodation are charged separately.

More details can be found on the Courses pages of this Undergraduate Prospectus. Please note that the current information applies to the 2020-2021 academic year. Fees will be published on the NU webpage nu.edu.kz/fees-and-funding/ as soon as they are available.

LIVING COSTS

The average cost of living in September 2019 comprised 31 759 tenge per capita in Kazakhstan.

Source: Ministry of National Economy of the Republic of Kazakhstan, Statistics Committee.

		AVERAGE PER CAPITA (IN KZT)
1	Cost of living	31 759
2	Groceries	17 467
3	Non-grocery goods and services	14 292

NU EDUCATIONAL GRANTS

The Nazarbayev University educational grant is a dedicated amount of money provided to enrolled students at the University. It covers tuition fees for the level of education or preparatory programs. It is provided under the state educational order in accordance with the regulations on admission for appropriate programs or majors. As well as tuition fees, the grant provides a monthly stipend and guaranteed compensation money for travel. This is in accordance with the current legislation of the Republic of Kazakhstan. Only for citizens of Kazakhstan

The Nazarbayev University educational grant is not offered to applicants who previously received a degree for the same level of education under the state educational order or under the Bolashak international scholarship.

Funding from resources of Nazarbayev University
The “Ybyray Altynsarin” scholarship is awarded to citizens of Kazakhstan included in the list of

recommended candidates for admission to the University to a specified program and candidates that meet one or several of following criteria:

- students left without care of both parents (orphans) or left without care of one parent;
- disabled students of 1,2,3 categories;
- students from families with many children;
- students with one or both parents with disabilities 1, 2, 3 categories.

The grant is financed by Nazarbayev University and covers the tuition fees but not a monthly allowance or compensation for travel. The grant is provided for entire period of the specified program.



TUITION WAIVER

The certain category of applicants can be granted tuition waiver to study on undergraduate programs under fee-paying basis at Nazarbayev University:

1. Orphans or individuals left without parental care, who have not reached the age of twenty-nine, and have lost their parents until they reached the age of majority
2. Disabled individuals of 1,2,3 categories
3. Persons from families with three or more cohabiting children under the age of 23, who are full or half siblings.
4. Individuals with one or both parents with disabilities of group I,II and III
5. Students admitted to the NUFYP and undergraduate programs, who do not fall under social categories

For more information regarding the tuition waiver please contact Bursar's office at BURSARS_OFFICE@NU.EDU.KZ

OR AT THE ADDRESS:

Office 5034, Block C2
Bursar's Office
Nazarbayev University
53 Kabanbay batyr avenue
010000 Nur-Sultan, Kazakhstan
Republic of Kazakhstan

ACCOMMODATION



STUDENT HOUSING

We are delighted to provide our students with a comfortable and safe environment that the NU campus offers. We encourage our students to live on campus and enjoy all benefits of student life activities having everything within a walking distance.

Living in the dormitories of NU and taking advantage of its academic, sport and other facilities inspires the students' future commitments to the University and the surrounding environment.

All rooms are fully furnished. Room sizes vary according to the block.

9 RESIDENTIAL HALLS (BLOCKS) ARE AVAILABLE AT NU.

APPROXIMATELY, OVER 75% OF NU STUDENTS RESIDE ON CAMPUS.

Residential equipment, medical office, study rooms, laundry facilities, mini markets, vending machines, barber shop and canteens are available in the residential halls.



RESIDENTIAL AREA

EATERIES

There are numerous inexpensive cafés, restaurants, and canteens available on campus for different tastes and preferences.

SPORT & FACILITIES

Nazarbayev University Sports Center is a 6000+ square meter multi-sport complex open for NU community that provides:

- Multifunctional Hall for basketball, futsal and volleyball
- Gymnastics Hall for gymnastics and cheerleading, martial arts and table tennis
- Dance Room for choreography and fitness classes
- Gym for students
- 6 fully-equipped changing rooms for men and women with showers and lockers
- Medical Room that serves the visitors

BICYCLES

There is a bicycle parking offered on campus. The front area of living blocks is equipped with a bicycle parking racks. The limited storage for bicycles is provided in the winter period.

PARKING

Parking on the NU territory allowed only for those who do not have a room in the dormitory. Parking spaces are limited and it spread equally among the applicants.



HEALTH, SAFETY & ENVIRONMENT

Nazarbayev University is committed to provide safe and healthy environment for the visitors, students, faculty, and staff members. There are different activities aimed to ensure compliance with the national requirements and best international practices in managing health, safety and the environment.

HEALTH AND SAFETY

All the facilities are equipped with the automated fire alarm system and basic fire equipment (smoke detectors, sprinklers, extinguishers, fire hose) to locate and prevent fire. As part of preparedness for emergency situations, building evacuation drills are conducted annually. It is strictly prohibited to smoke, use e-cigarettes within the campus facilities. Consumption of alcohol is not allowed at the University.

HEALTHCARE SERVICES

It is required to complete the mandatory medical check-ups which are held prior the studies and employment and then annually to ensure timely diagnosis and prevention of diseases and maintenance of the population's epidemiological well-being. The students, faculty and staff members are provided with the health insurance services.

ENVIRONMENT

The University strives to optimize the consumption of natural resources and eliminate the environmental pollution. It has launched Green Campus campaign as one of the initiatives related to its sustainable development and prevention of the global climate change. Collection of paper and other recyclable materials are organized through the containers set up on the territory of Nazarbayev University. Use of less plastic and more reusable dishes is highly encouraged.

PUBLIC SAFETY AND SECURITY

For security purposes, access to the University campus is controlled through the control access points and requires the presence of NU ID cards. All other visitors must register at access points of the University, using their ID cards.

SUPPORT FOR STUDY



LIBRARY & IT SERVICES

NU LIBRARY

The Nazarbayev University Library and IT Services ensure implementation, maintenance and development of information systems and facilities, collections, technologies, and services to support study process. The NU library has become even more accessible and comfortable. New halls and rooms are with a total area of 10 000 sq. m. The Library offers superior conditions for the NU community, including new computer rooms, multimedia rooms, classrooms for group activities and individual study, equipment for inclusive education, conference rooms, an audio-visual recording room, data visualization room, children's room and much more. The students and researchers, who are parents, can use the Family Room to study with their children.

Phone: +7 (7172) 70-62-55
e-mail: library@nu.edu.kz

NU Library is on social media: FB - @Nazarbayev.
University. Library, Instagram - library_nu
Twitter - @NU_Library_NU



PSYCHOLOGICAL COUNSELING CENTER

Professionals of the Psychological Counseling Center (PCC) provide psychological and counseling services for the students of all programs.

The PCC helps students to reach a state of positive mental health. Our psychologists provide a safe and confidential environment to help students discover any issues that may interfere with their well-being, happiness, or effectiveness.

Commonly addressed concerns include but are not limited to relationships, stress, self-esteem, body image, sexuality, anxiety, and depression.

Areas of work:

- Individual and group counseling
- Counseling for parents who are concerned about their child
- Psychological diagnostics
- Workshops and seminars on various topics

**TO MAKE AN APPOINTMENT
WITH A PSYCHOLOGIST,
STUDENTS USE THE STUDENT
PORTAL [MY.NU.EDU.KZ](https://my.nu.edu.kz).**

CLUBS & SOCIETIES

STUDENT ORGANIZATIONS

NU hosts more than 200 professional student clubs & societies, which makes NU campus packed with events and activities throughout the year. One of the largest events at NU is a Club fair. It features the most active clubs of the university and introduces students a way to get involved on campus. Some student initiatives have reached out to local community.

NU students organize sport tournaments, debate contests, choir and orchestra concerts and interesting guest lectures. Charity activities organized by students involve the entire NU community to help children from socially vulnerable families and children with disabilities.

AT VARIOUS INTERNATIONAL AND NATIONAL EVENTS IN NUR-SULTAN CITY, SUCH AS CONGRESS OF WORLD AND TRADITIONAL RELIGIONS, ASTANA ECONOMIC FORUM, BOXING WORLD CUP, AND MANY MORE.

MANY NU STUDENTS VOLUNTEER

STUDENT GOVERNMENT

The NU Student Government is a student self-governance system representing the interests of students to the administration of the University and the global community. Students' self-governance is a proactive and independent joint activity of students aimed at solving issues related to academic and extracurricular activities.

STUDENT FUND IS AIMED AT SUPPORTING AND DEVELOPING STUDENT LIFE SUCH AS FINANCING STUDENT EVENTS AND DIFFERENT KIND OF STUDENT INITIATIVES.

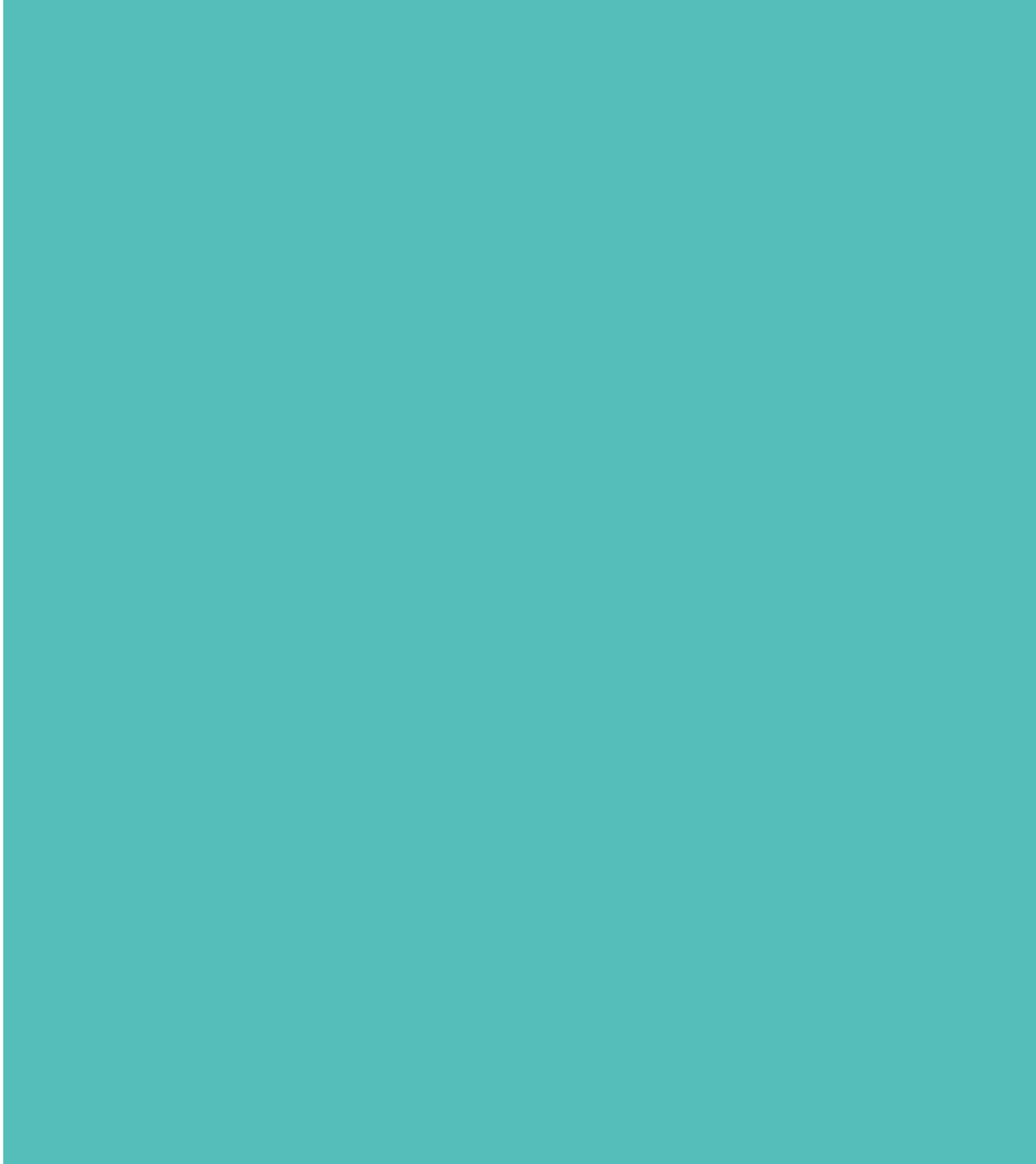
DEPARTMENT OF STUDENT AFFAIRS

The Department of Student Affairs (DSA) provides opportunity for student growth and development. We create a favorable environment and conditions for students to develop leadership skills and become contributing members of the NU community and beyond. We help students adapt to campus and support them in addressing a variety of questions regarding student life.

CONTACT DSA AT [HTTPS://NU.EDU.KZ/CAMPUS/STUDENT-LIFE/DEPARTMENT-STUDENT-AFFAIRS](https://nu.edu.kz/campus/student-life/departments-student-affairs)

OR EMAIL AT STUDENT_AFFAIRS@NU.EDU.KZ

LIFE AFTER NU



LIFE AFTER NU

NU graduates are employed in a wide range of industries and businesses, continue their education or start their own businesses. The majority of the graduates work in Kazakhstan whereas a number of them pursue careers across the globe.

Many of the graduates choose to continue their studies in universities around the world such as University of Cambridge, University of Oxford, Stanford University, Massachusetts Institute of Technology, University of Harvard, University College London, Johns Hopkins University, ETH Zurich, Columbia University, National University of Singapore, Carnegie Mellon University, New York University, London School of Economics and Political Science, LMU Munich, Hong Kong University of Science and Technology, University of Wisconsin-Madison, KU Leuven, University of Illinois at Urbana-Champaign, Technical University of Munich, University of Warwick, Seoul National University, and others.

ALUMNI DESTINATION STATUS OF THE BACHELORS OF CLASSES 2015-2018 (AS OF JUNE 2019)

- 55% - Employed
- 35% - Pursue further education
- 4% - Seeking employment
- 6% - Other¹

WHERE DO OUR BACHELOR GRADUATES WORK?

- 22% - Finance
- 20% - Manufacturing & Production
- 16% - Education & Science
- 7% - IT
- 6% - Construction
- 4% - Public Sector
- 2% - Healthcare
- 2% - Energy
- 21% - Other²

¹ Other - maternity leave, career break, no information
² Other - Marketing & Sales, Services, Telecommunication, Transport & Logistics, International organizations, Agribusiness

NU ALUMNI ASSOCIATION

NU Alumni Association was founded in April 2016; in October 2018 it was officially registered as a Public Union "NU Alumni" with an aspiration to develop the University by creative and intellectual potential of graduates.

Up to date, 28 Ambassadors (22 are located abroad, 6 stay in Kazakhstan) have agreed to promote NU, and 3 Alumni Reunions have been conducted (in 2016, 2017, 2019).

In cooperation with NU Career and Advising Center, "NU Alumni" Public Union keeps strengthening ties between alumni and the University, and contributes to professional development of students.

CONTACT NU ALUMNI AT
NUALUMNI@NU.EDU.KZ

OR +7 771 346 99 56

OR FIND US AT ROOM 1166,
BLOCK 1

NAZARBAYEV UNIVERSITY CAREER ADVISING CENTER

Nazarbayev University Career and Advising Center (CAC) advances the mission of Nazarbayev University to promote the development of education and research activities in the Republic of Kazakhstan. The mission of NU CAC is providing comprehensive career services to encourage students' excellence in career development, preparing for professional environment, creating and promoting strong partnerships with NU students and parents, alumni, employers, Schools, and overall university community.

VISIT CAC WEBSITE
WWW.CAC.NU.EDU.KZ

OR CONTACT AT
CAC@NU.EDU.KZ

OR +7(7172)706538,
709261, 705886

OFFICE 2043, BLOCK C2

CAREER AND ADVISING CENTER PROVIDES COMPREHENSIVE CAREER SERVICES, AS FOLLOWS:

- Career advising on internships, job search, interview skills, resume review, alumni issues, and graduate application to both NU students and alumni;
- Connecting students and alumni with companies offering internship/job opportunities through job postings, social media, arranging on-campus recruitment events, and networking opportunities;
- Posting job announcements for companies looking to hire NU students and alumni;
- Coordinating Internship and Work on Campus Programs;
- Developing employment skills of students through career workshops and activities to prepare them for employment after graduation and increase overall graduates employability;
- Assisting NU students and alumni to identify graduate programs, connecting students with graduate schools through campus info-sessions and presentations.

PROGRAMS

1. NAZARBAYEV UNIVERSITY FOUNDATION YEAR PROGRAM
2. ANTHROPOLOGY, BA
3. BACHELOR IN NURSING PROGRAM
4. BIOLOGICAL SCIENCES, BSC
5. CHEMICAL AND MATERIALS ENGINEERING, BENG
6. CHEMISTRY, BSC
7. CIVIL AND ENVIRONMENTAL ENGINEERING, BENG
8. COMPUTER SCIENCE, BSC
9. ECONOMICS, BA
10. ELECTRICAL AND COMPUTER ENGINEERING, BENG
11. GEOLOGY, BSC
12. HISTORY, BA
13. MATHEMATICS, BSC
14. MECHANICAL AND AEROSPACE ENGINEERING, BENG
15. MEDICAL SCIENCES
16. MINING ENGINEERING, BSC
17. NURSING, BSN
18. PETROLEUM ENGINEERING, BSC
19. PHYSICS , BSC
20. POLITICAL SCIENCE AND INTERNATIONAL RELATIONS, BA
21. ROBOTICS AND MECHATRONICS, BSC
22. SOCIOLOGY, BA
23. WORLD LANGUAGES, LITERATURES AND CULTURES, BA



NAZARBAYEV UNIVERSITY

FOUNDATION YEAR

PROGRAM

ABOUT

PROGRAM TITLE. NAZARBAYEV UNIVERSITY FOUNDATION YEAR PROGRAM

SHORT OVERVIEW

Nazarbayev University Foundation Year Program (NUFYP) – a one-year intensive program at the Center for Preparatory Studies of Nazarbayev University. The program provides English language, mathematical reasoning, and academic skills preparation for the undergraduate programs of Nazarbayev University. Education under “Nazarbayev University” state grant, as well as tuition-based education are available for this program. Following successful completion of NUFYP, Nazarbayev University Schools accept students for further education in their undergraduate programs.

APPLICATION DEADLINE	September - November (annually)
DURATION	1 year Full time
APPLICATION FEE	3 000 KZT
PROGRAM WEBSITE	https://cps.nu.edu.kz/curriculum-nufyp/

OVERVIEW

ABOUT. Nazarbayev University Foundation Year Program is a two-semester, academic preparatory program that offers approximately 19 hours of class per week plus individual tutorial meetings and group support sessions. The Program is designed to help students gain academic knowledge while also developing study skills and maturity required to commence successful undergraduate study at Nazarbayev University. The curriculum focus is academic English and mathematics, but in addition, students will broaden their educational background through a number of introductory courses

in both the sciences and social science. Students will expand their educational knowledge, hone study habits, improve academic skills, practice critical thinking, and learn how to be a successful student in a research-intensive university. Important for future success, students will also be guided through the maturation process into the University in personal life skills, such as, integrity, time management, resilience, and goal-oriented decision making.

OUTLINE

PROGRAM STRUCTURE. Program Structure. NUFYP is a two-semester program. Progression to NU undergraduate study is based on grading criteria in English for Academic Purposes, Mathematics, and the grade average of the four electives.

NUFYP COURSES:

- Academic Reading & Writing (2 semesters)
- Listening & Speaking (2 semesters)
- Pre-Calculus Mathematics
- Mathematics Calculus & Statistics
- Personal Development Module (2 semesters)
- Four electives (Physics, Chemistry, Biology, Humanities and Social Science, Geography, Business)

KEY FACTS

START	August (annually)
PROGRAM INTENSITY	Full-time 1 year
LANGUAGES	English
DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1 838 USD PER YEAR * Indicated tuition amount with highest discount applied
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VISA

GETTING A VISA	International students receive visa support
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ANTHROPOLOGY, BA

ABOUT

PROGRAM TITLE. BA IN ANTHROPOLOGY

SHORT OVERVIEW

The program offers a blend of required and elective courses that provide students with a broad knowledge of the different sub-fields of anthropology and the methods

and theories used by each. Through the program students are invited to develop research and critical thinking skills and to practice their research skills by applying them to local and global issues.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/ba-in-anthropology/

OVERVIEW

ABOUT. A program that focuses on the systematic study of what it means to be human. Students are exposed to a holistic approach that focuses on cultural behavior and institutions, biology, material culture and language. The program is four-field, which means that students take classes in archaeology, linguistic anthropology, sociocultural anthropology, and biological anthropology. The department also offers courses focusing on medical anthropology, primatology, race and ethnicity, economic anthropology, hominids, prehistoric archaeology, anthropogenic modification the environment, gender,

sexuality, and many other topics. Students will be introduced to the discipline's theoretical concepts, research methods, ethics, and practice. Critical thinking, lifelong learning, and the acquisition of transferable skills are emphasized. Possible careers include areas such as applied anthropology, corporate ethnography, public health, education, medicine, forensic pathology, museum studies, cultural resource management, archaeology, paleontology, linguistics, human resources, and international affairs.

OUTLINE

PROGRAM STRUCTURE. BA program runs 4 years (8 semesters) where you are required to complete 240 ECTS credits.

ANTHROPOLOGY COURSES:

- Three 100-level ANT courses
- Qualitative Methods
- Anthropological Theory
- Three courses at the advanced or intermediate level in at least two separate subfields (Cultural, Biological, and Archaeological Anthropology)
- Anthropology electives
- Senior Capstone

DISTRIBUTION REQUIREMENTS:

- History Course
- History of Kazakhstan
- Philosophy/Religion
- Rhetoric and Composition
- Humanities Electives
- Social Science Research Methods
- Three Social Science electives
- Natural Sciences and Math
- Any courses from SSH and SEDS

KEY FACTS

START	August
PROGRAM	4 years Full-time

INTENSITY LANGUAGES	English
DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1900 USD PER YEAR * Indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA	International students receive visa support
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WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistants positions are available
WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Anthropology, — Corporate ethnography, — Public health, — Education, — Medicine, — Forensic pathology, — Museum studies, — Cultural resource management, — Archaeology, — Paleontology, — Linguistics, — Human resources, — International affairs.



BACHELOR IN NURSING

PROGRAM

ABOUT

PROGRAM TITLE. BACHELOR IN NURSING PROGRAM

SHORT OVERVIEW

The Bachelor in Nursing (BN) Program is a full-time, undergraduate course of study providing professional qualification after two years (four semesters) of study, leading to the completion of the academic degree of “Bachelor in Nursing.” Eligible nurses who meet admission criteria and successfully complete this program will have conferred upon them Bachelor in Nursing academic degree. The term “applied” is used to distinguish experienced registered nurses receiving experiential equivalent credits for prior education and professional nursing experience and then completing two years of university nursing courses.

APPLICATION DEADLINE	April
DURATION	2 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	www.nusom.edu.kz

OVERVIEW

ABOUT. This undergraduate program for practicing nurses builds on nursing education and skills that nurses have obtained through prior education and work experiences in nursing and healthcare fields. A more in-depth focus on nursing assessment of patients and communities; health promotion and disease prevention;

patient, family and community education; the use of evidence-based research to guide nursing practice, policies and projects; and collaboration on group projects will be used to obtain the BN program learning outcomes.

OUTLINE

PROGRAM STRUCTURE. The four-semester 16-course structure is: Nutrition for Clinical Practice; Physical Assessment Across the Lifespan; Nursing Care of Older Adults; Introduction to Basic Statistics for Evidence Based Practice; Research Methods for Nursing; Medical-Surgical Nursing: Complex Medical Management for Acute and Chronic Patients; Health Promotion and Disease Prevention in Culturally Diverse Populations; Enhanced Communication in Professional Nursing,

Education: Principles and Practice for Teaching in Nursing; Principles of Healthcare Administration; Data Analytics for Quality Improvement in Healthcare; Medical-Surgical Nursing: Complex Surgical Management; Community and Home Health Nursing; Issues and Trends in Nursing; Medical-Surgical Nursing: Complex Management; Capstone Quality Improvement Research Project.

KEY FACTS

START	August	LANGUAGES	English with simultaneous translation into Russian
PROGRAM INTENSITY	Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2100 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on main campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available
WORK WHILE STUDYING	This program allows the flexibility to work part-time during weekends in the appropriate clinical setting.

BIOLOGICAL SCIENCES, BSC

ABOUT

PROGRAM TITLE. BSC IN BIOLOGICAL SCIENCES SHORT OVERVIEW

The Bachelor of Science in Biological Sciences program comprises both state-of-the-art theoretical and hands-on laboratory courses in modern areas of the biological

and biomedical sciences and technology including but not limited to, cell and molecular biology, bioinformatics, cell, recombinant, microscopy and imaging technologies, molecular genetics, microbiology, immunology, neurosciences, and a various others.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/bsc-in-biological-sciences/

OVERVIEW

ABOUT. The Bachelor of Science (BSc) in Biological Sciences program comprises both state-of-the-art theoretical and hands-on laboratory courses in modern areas of the biological and biomedical sciences and technology including but not limited to, cell and molecular biology, bioinformatics, cell, recombinant, microscopy and imaging technologies, molecular genetics, microbiology, immunology, neurosciences, and a various others.

Our program aligns with the Modernization 3.0 strategy to train a professional, competitive workforce able to succeed nationally and internationally and to promote research and development in Kazakhstan. The integrated teaching, research and innovation approach provides an outstanding preparation for careers in research, academia, medicine, industry, and related fields. Biological Sciences graduates, who have taken advantage of their elective choices, can find work

in different fields related to Kazakhstan's economy, education, environment and health. In these fields they can grow into senior positions in either scientific/technical or non-technical areas.

Graduates of this program will have multiple options to continue their education and acquire a graduate degree from Nazarbayev University or internationally, in various areas of life sciences, medical sciences, or public health. Until now about two-thirds of graduates with a BSc in Biological Sciences were admitted to Medical Doctor, Master of Science, or Master of Public Health programs at Nazarbayev University School of Medicine. About 10% of graduates pursued graduate education at reputable foreign institutions in Europe, North America, Japan, Singapore and Korea. The remaining graduates chose to enter other graduate programs at Nazarbayev University including our Master of Science program in Biological Sciences and Technologies or were offered jobs.

OUTLINE

PROGRAM STRUCTURE.

Year 1
Fall
Modern Biology I with Laboratory

General Chemistry I
General Chemistry I with Laboratory
Programming for Scientists and Engineers
History of Kazakhstan

Spring
Modern Biology II with Laboratory
General Chemistry II
General Chemistry II with Laboratory
Calculus I
Rhetoric and Composition
Year 2
Fall
Organic Chemistry I
Organic Chemistry I with Laboratory
Human Anatomy and Physiology I with Laboratory
Kazakh Language I
Communication
Spring
Physics I for Scientists and Engineers
Applied Statistical Methods
Human Anatomy and Physiology II with Laboratory
Elective 1
Year 3
Fall
Molecular Biology of the Cell with Laboratory
Biochemistry

Technical Elective 1
Technical Elective 2
Kazakh Language II
Spring
Introduction to Microbiology with Laboratory
Critical Research Reasoning
Genetics
Open Elective 1
Business Fundamentals and Entrepreneurship
Year 4
Fall
Introduction to Immunology
Biology Research Design
Technical Elective 3
Elective 2
Open Elective 2
Spring
Bioethics
Technical Elective 4
Technical Elective 5
Elective 3
Open Elective 3

KEY FACTS

START	August
PROGRAM INTENSITY	4 years Full-Time
LANGUAGES	English
DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR *Indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Food - 26 400tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships for residents and top international candidates recommended by the Admissions Committee of each School.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate
WORK AFTER GRADUATION	Continue education in Graduate and Post-graduate programs in areas of life sciences, medical sciences, or public health. Work in areas of biological technician, research assistant, scientific laboratory technician etc.

CHEMICAL AND MATERIALS ENGINEERING, BENG

ABOUT

PROGRAM TITLE.
BENG IN CHEMICAL AND MATERIALS ENGINEERING

SHORT OVERVIEW Chemical and Materials Engineering is the engineering discipline that makes extensive use of both chemical and physical transformations to achieve added value. This profession relies on the concept of “scale-up”, that is, the transition of a discovery (a new material, a new catalyst, a new molecule, a new physical phenomenon) from the laboratory to the production plant.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://seds.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-chemical-and-materials-engineering/

OVERVIEW

ABOUT. The curriculum of the proposed program covers chemical and materials engineering fundamentals, product and process design, molecular and plant simulation, as well as other topics related to Chemical and Materials Engineering, such as environmental and bio-engineering. Students can further acquire more specialized knowledge through the use of elective courses and through the Research Practice course. These courses are outlined in following sections. One year-long Capstone Project is included in the curriculum; in this, students can gain experience in teamwork as well as in defining and solving large problems as members of a group. Capstone projects require integration of earlier course components into problem definition and solution. In the context of a Capstone

Project, students are required to give oral and poster presentations in addition to written project reports. This form of learning capitalizes on each student’s interests, abilities and learning styles. They also learn about and demonstrate their capacity related to ethics and/or safety issues associated with the design. The capstone course challenges students with real-world design projects, and students are required to incorporate conceptual design, energy, safety and economic analyses into the design. Students may also participate in interdisciplinary design project in which students of different engineering disciplines work as a team in design, analysis and manufacture of innovative engineering products. Research-integrated teaching is emphasized in the curriculum through a variety of opportunities. Such

opportunities are offered to the students in different courses via course projects, and also through the Research Practice course. In the Chemical and Materials Engineering curriculum, students will be taught how to collect data and information from the technical literature, propose and develop research methods and engineering solutions, make use of their knowledge as well as of

modern tools (equipment, software) to test hypotheses and draw conclusions. Chemical and Materials Engineering students are able to join different international student societies (AIChE, SPE, ACE).

OUTLINE

PROGRAM STRUCTURE. The ChME program at NU includes a first year dedicated to courses common to engineering disciplines, particularly regarding to physics and mathematics. In the second year students will further improve their mathematical skills, essential to solve later on complex engineering problems. At this point, core courses of the discipline are introduced, starting with an introductory course on ChE, together with thermodynamics and fluid mechanics, as well general courses on inorganic and organic chemistry. In the third year students will learn about the key units present in chemical plants, such as chemical reactors, heat exchangers and separation units. Students will learn first hand the practicalities of these core chemical engineering courses in two dedicated experimental lab courses. Two further courses are dedicated to the chemistry of materials and their characterization. In the last year, students will focus on process design and simulation, as well as in control and safety systems in

chemical processes. Such courses will enable students to perform their Capstone projects, involving the design and simulation of a whole chemical process. In the final year students will have the opportunity to explore different aspects in the very broad discipline that is ChME through elective courses. Many elective courses on chemical engineering are available for example on environmental applications or on multiphase systems. Elective courses specialized on materials include for example those on polymers, colloids, powders or on biological tissues.

DETAILED PROGRAM STRUCTURE IS AVAILABLE ON PROGRAM’S WEB-SITE:
<https://seng.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-chemical-and-materials-engineering/chemical-and-materials-engineering-undergraduate-syllabus/>

KEY FACTS

START	August 2020	LANGUAGES	English
PROGRAM INTENSITY	Full-time	DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.



VISA

GETTING A VISA

International students receive visa support

WORK

WORK PERMITS

International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.

WORK WHILE STUDYING

Research assistants positions are available

WORK AFTER GRADUATION

The chemical engineer deals with the transformation of raw materials into useful products that have an impact on virtually every facet of human life. Many of these products are commodities obtained from oil and natural resources, such as soaps, detergents, cosmetics, liquid and gaseous fuels, synthetic fibers and plastics. While the petrochemical industry will continue to provide employment for many scientists and engineers, the chemical engineer must be prepared to participate in the development of the newer and emerging technologies, such as those based on ceramics, nanotechnology focused on high value chemicals and products, biochemicals, and electronic materials. Also, the chemical engineer needs to be increasingly conversant with problems of energy conservation, green energy and environmental pollution issues for a sustainable development.

Our graduates will also work in many industries and find rewarding careers in diverse areas such as biomedical materials, semiconductors, microelectronics, petroleum, nanotechnology, environmental quality and industrial safety.



CHEMISTRY, BSC

ABOUT

PROGRAM TITLE. BSC IN CHEMISTRY SHORT OVERVIEW

In the Department of Chemistry, we offer the Bachelor of Science degree program with a set of core courses and a list of electives in Organic, Inorganic, Physical, Analytical chemistry, and Biochemistry. We have provided the fundamental knowledge, essential problem solving skills and strategies in various chemistry related areas.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/bsc-in-chemistry/

OVERVIEW

ABOUT. The Bachelor of Science in Chemistry degree program is offered with a set of core courses and a list of electives in Organic, Inorganic, Physical, Analytical chemistry, and Biochemistry. We have provided the fundamental knowledge, essential problem solving skills and strategies in various chemistry related areas.

OUTLINE

PROGRAM STRUCTURE.

Year 1	Communication
Fall	Spring
Modern Biology I with Laboratory	Physics I for Scientists and Engineers
General Chemistry I	Applied Statistical Methods
General Chemistry I with Laboratory	Human Anatomy and Physiology II with Laboratory
Programming for Scientists and Engineers	Elective 1
History of Kazakhstan	
Spring	Year 3
Modern Biology II with Laboratory	Fall
General Chemistry II	Molecular Biology of the Cell with Laboratory
General Chemistry II with Laboratory	Biochemistry
Calculus I	Technical Elective 1
Rhetoric and Composition	Technical Elective 2
	Kazakh Language II
Year 2	Spring
Fall	Introduction to Microbiology with Laboratory
Organic Chemistry I	Critical Research Reasoning
Organic Chemistry I with Laboratory	Genetics
Human Anatomy and Physiology I with Laboratory	Open Elective 1
Kazakh Language I	Business Fundamentals and Entrepreneurship

Year 4
Fall
Introduction to Immunology
Biology Research Design
Technical Elective 3
Elective 2
Open Elective 2

Spring
Bioethics
Technical Elective 4
Technical Elective 5
Elective 3
Open Elective 3

KEY FACTS

START	August	INTENSITY LANGUAGES	English
PROGRAM	4 years Full-time	DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR *Indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Food - 26 400tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships for residents and top international candidates recommended by the Admissions Committee of each School.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate
WORK AFTER GRADUATION	In future you will have a chance to prosper your career in petroleum/oil industry, geology industry, pharmaceutical industry or work in government sector. Industries where the major can be applied: <ul style="list-style-type: none">- Research and experimental development in natural sciences and engineering (NSE)- Hazardous waste management- Water Resource management- Manufacture, refined petroleum products and nuclear fuel- Pharmacy



CIVIL AND ENVIRONMENTAL ENGINEERING, BENG

ABOUT

PROGRAM TITLE. BENG IN CIVIL AND ENVIRONMENTAL ENGINEERING

SHORT OVERVIEW

Civil & Environmental engineers are involved in almost every aspect of our daily lives. They shape the environment in which we live on both the micro and macro scales by designing, constructing and operating various types of public and private facilities such as roads, bridges, water & energy systems, ports, railways, airports and residential complexes.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://seds.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-civil-and-environmental-engineering/

OVERVIEW

ABOUT. The Civil & Environmental Engineering degree program in the School of Engineering and Digital Sciences is based on an innovative curriculum of systems-based education (where engineering problems are tackled in an integrated way), combined with specialisations in the disciplines of civil & environmental engineering. The BEng program comprises the University Preparatory Certificate program, followed by four years of engineering modules leading to the award of a BEng degree in the Civil Engineering disciplines. Exceptional students may apply for direct admission without completing the Preparatory Certificate Program. Professors in the Department of Civil & Environmental

Engineering at Nazarbayev University possess diverse academic and professional backgrounds and are establishing standards of excellence in teaching, research and service. Our vision is to be recognized as the regional leader in Civil & Environmental Engineering education and research in Eurasia and compete in the international academic arena with similar professional communities all over the world. Our mission is to provide students with a broad education in mathematics, physics, engineering sciences, civil & environmental engineering fundamentals, communication skills, and the humanities, that will prepare them for the practice of civil & environmental

engineering at the professional level. The goal of Civil & Environmental Engineering at NU is to develop and graduate students who will contribute to the improvement of the quality of life.

OUTLINE

PROGRAM STRUCTURE. Most courses are of standard credit value carrying 6 ECTS each, except for some courses, such as Calculus 1, etc. which carry ECTS other than 6. A student is expected to spend about 25 to 30 hours of study per semester (inclusive of class contact and other study effort) for 1 ECTS.

The courses offered will be updated from time to time according to the need of society and the profession.

Students admitted to the program are required to complete a minimum of 248 or more ECTS to satisfy the degree requirements. However, they may choose to take additional courses beyond the basic requirements

Please check the course structure on program's page: <https://seng.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-civil-and-environmental-engineering/>

KEY FACTS

START	August 2020	LANGUAGES	English
PROGRAM INTENSITY	Full-time	DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistants positions are available
WORK AFTER GRADUATION	1. Local and international companies with different business profiles; 2. Self-motivated individuals who can run own companies (start-ups); 3. Academic careers at higher education institutions and research centers; 4. Civil servants for the government at national, regional and local level.



COMPUTER SCIENCE, BSC

ABOUT

PROGRAM TITLE. BSC IN COMPUTER SCIENCE

SHORT OVERVIEW

The Department of Computer Science offers the undergraduate degree Bachelor of Science in Computer Science (BSCS). As per NU policy and Bologna guidelines, the undergraduate degree program requires a minimum of 240 total ECTS credits.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://seds.nu.edu.kz/programs/undergraduate-programs/bachelor-of-science-in-computer-science/

OVERVIEW

ABOUT. The computer science program draws from the belief that society's complex problems require sophisticated solutions. With a foundation from the sciences, mathematics, and computing, students are primed to deliver these solutions in fields encumbered with complexity and rapid change. The program's hands-on, learning-by-doing approach brings value to both professionals and researchers dealing with many of the most challenging problems of today's world.

Graduates of this program are well positioned to move into careers in industry, academia, and government providing solutions to difficult, large, and highly complex problems.

OUTLINE

PROGRAM STRUCTURE. As per NU policy and Bologna guidelines, the undergraduate degree program requires a minimum of 240 total ECTS credits. Apart from Computer Science courses, students have to take couple courses from other disciplines from 1st to 3rd years of study like Kazakh language and History of Kazakhstan courses, Calculus, Physics for Scientists and Engineers with Laboratory course etc.

Technical Electives for the BSc in CS degree can be satisfied by any non-required course offered by the CS department, as well as the following courses offered by

other departments:

- MATH 351 Introduction to Numerical Methods with Applications
- MATH 407 Introduction to Graph Theory
- MATH 417 Cryptography
- PHYS 270 Computational Physics
- ROBT 310 Image Processing
- ROBT 407 Statistical Methods and Machine Learning. For full program outline please visit the School website.

KEY FACTS

START	August 2020	LANGUAGES	English
PROGRAM INTENSITY	4 years Full-Time	DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied.
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Food - 26 400tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate
WORK AFTER GRADUATION	INDUSTRIES WHERE THE MAJOR CAN BE APPLIED: <ul style="list-style-type: none"> — Computer hardware and software — Information Technology — Government — Education — Healthcare and Medicine — Banking — Military — Research and Development in Engineering and Sciences Any sector that uses computers

ECONOMICS, BA

ABOUT

PROGRAM TITLE. BA IN ECONOMICS.

SHORT OVERVIEW

The B.A. in Economics provides an undergraduate education in economics with a particular focus on its application to decision making not only in business, but also in the public sector and non-profit organizations. The program offers a terrific academic experience with an emphasis on skills and capabilities appropriate to the study of modern market economies and their relevance to decision making of economic entities.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/economics/

OVERVIEW

ABOUT. The Economics program at Nazarbayev University is one of the fastest growing programs in the School of Sciences and Humanities. It is aimed at providing excellent training in the core economic theory and different fields within Microeconomics and Macroeconomics.

The program is designed to provide students with theoretical knowledge and practical skills for successful careers in business and government sector, as well as

graduate studies in Economics, Business Administration, International Relations, Law and many others. Economics students may choose to pursue a standard Economics major or a math-intensive version of the same major. The math-intensive version provides additional training in sophisticated methods that are useful in modeling and forecasting of complex market behavior. The Economics program also provides an opportunity to do an Economics Minor.

OUTLINE

PROGRAM STRUCTURE

BA program runs 4 years (8 semesters) where you are required to complete 240 ECTS credits.

Economics requirements:

- Introduction to Microeconomics
- Introduction to Macroeconomics
- Economic Statistics
- Intermediate Microeconomics
- Intermediate Macroeconomics
- Econometrics I
- General Economics Electives (300 level economics electives)
- Advanced Economics Electives (400 and higher level economics electives)

Distribution requirements:

- Two Kazakh courses
- History of Kazakhstan
- Ethics course
- Writing and Communication
- Four Humanities Electives
- Three Social Science electives
- Natural Sciences and Math
- Computer Science course
- Business course
- Any courses from SSH or SEng

KEY FACTS

START	August of each year
PROGRAM INTENSITY	4 years Full-Time
LANGUAGES	English
DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1900 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA	International students receive visa support
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WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate
WORK AFTER GRADUATION	B.A. in Economics is fundamental degree and education for anyone, which open many doors and provides opportunities to work in: <ul style="list-style-type: none"> — Private Sector — Public Sector — Government Entities — Non-governmental Organizations — Multinational Corporations

ELECTRICAL AND COMPUTER ENGINEERING, BENG

ABOUT

PROGRAM TITLE. BENG IN ELECTRICAL AND COMPUTER ENGINEERING

SHORT OVERVIEW

The Electrical and Computer Engineering at NU is a broad-based discipline and develops in students a mastery of the basic engineering principles underlying electrical and electronic engineering with emphasis on electronic and micro-controllers-based design, communication and networking, operation and control of electrical machines, power system generation and distribution, systems modeling, automation and control.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://seds.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-electrical-and-computer-engineering/

OVERVIEW

ABOUT. THE PROGRAM HAS FOLLOWING DIRECTIONS:

- (1) Circuits and Systems,
- (b) Communications and Signal Processing,
- (3) Power Systems and Energy, and
- (4) Computer Engineering.

The program aims to prepare students to take up leading roles in industry and/or prepare them to pursue Master doctoral degrees. The program have global outlook with its graduates prepared to take-on challenges relavent to creating local and international impact.

OUTLINE

PROGRAM STRUCTURE. Most courses are of standard credit value carrying 6 ECTS each, except for some courses, such as Calculus 1, etc. which carry ECTS other than 6. A student is expected to spend about 25 to 30 hours of study per semester (inclusive of class contact and other study effort) for 1 ECTS.

The courses offered will be updated from time to time according to the need of society and the profession.

Students admitted to the program are required to complete a minimum of 248 or more ECTS to satisfy the degree requirements. However, they may choose to take additional courses beyond the basic requirements

Please check the course structure on program's page: <https://seng.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-electrical-and-computer-engineering/>

KEY FACTS

START	Август 2020	LANGUAGES	English
PROGRAM INTENSITY	Full-Time	DELIVERY MODE	On campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistants positions are available
WORK AFTER GRADUATION	The graduates of the MSc in ECE find jobs in semiconductor, power, IT and telecommunication industry. Our graduates are placed in some of the leading multinational and national companies. In addition, several of our students pursue research careers continue further studies in Master and PhD programs.



GEOLOGY, BSC

ABOUT

PROGRAM TITLE: BSC IN GEOLOGY

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://smg.nu.edu.kz/en/programs/undergraduate-programs.html

OVERVIEW

ABOUT.

Geoscientists are responsible for finding and evaluating mineral deposits, energy sources as well as exploitation and sustainable use of groundwater. The program graduates are mainly employed by oil and mining companies. You use your intimate knowledge of the earth's surface together with available technology to identify probable locations of natural resources.

OUTLINE

PROGRAM STRUCTURE.

The first two years of study provide a thorough grounding in the major principles of applied geosciences, together with an overview of earth system science and necessary numerical and engineering skills. Core geoscience skills are developed in the final two years of the program. Students will undertake a substantial amount of laboratory-based practical work and will develop geological data collection and analysis skills.

KEY FACTS

START	August
PROGRAM INTENSITY	Full-time duration 4 years
LANGUAGES	English
DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available. Scholarships for International Students are available

VISA

GETTING A VISA	International students receive visa support
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WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistant positions are available
WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Petroleum Industry - Oil companies hire geologists for sedimentology, stratigraphy, structural geology, geophysics, basin modeling, geochemistry, reservoir diagenesis; — Mining Industry - Exploration and mining geologists, working for the mining industry must have competencies in economic geology, mineralogy, petrology, structural geology; — Environmental companies and water resource agencies - These companies and agencies mostly seek hydrogeologists and geochemists — Academics - Carry out scientific research in a university or a research centre.



HISTORY, BA

ABOUT

PROGRAM TITLE. BA IN HISTORY

SHORT OVERVIEW

The History major at NU aims at being a model for rigorous, pluralistic and research-led institution in History of Kazakhstan. Students who choose the major in History will gain a sound knowledge of regional and global history across a variety of sub-disciplines and appreciation of how the past shapes current phenomena. Furthermore, students are trained to critically evaluate, select and process information, to communicate fluently and in sophisticated way both orally and in writing, and to work autonomously and responsibly.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/departments/department-of-history-philosophy-and-religious-studies/ba-in-history/

OVERVIEW

ABOUT. The B.A. in History will prepare you to assess evidence, evaluate other people's arguments, make up your own mind, and express your views in a sophisticated and compelling way.

You will not be expected to remember a long list of names and dates. Instead, you will learn how to use historical sources in order to understand how societies function. For example, by looking at how modern industry developed, you will be able to explore the relationship between economic change, the environment, and public policy. Similarly, by examining interethnic relations in the past, you will be able to analyze how

multicultural societies such as Kazakhstan work today.

More broadly, you will learn to understand sophisticated texts and to formulate your own arguments in a clear and convincing manner.

Through the study of History you will improve your written and oral communication skills in English. You will search for information and evaluate evidence, which you will then present in a variety of formats.

WITH A DEGREE IN HISTORY, YOU WILL BE ABLE TO:

- Distill, process and communicate information to others in English
- Analyze information and compose original arguments
- Understand how societies worked in the past and apply that knowledge to current situations
- Assess other people's arguments and advance your views in a clear and convincing manner
- Understand the diversity of cultures, societies, and belief systems

OUTLINE

PROGRAM STRUCTURE

BA program runs 4 years (8 semesters) where you are required to complete 240 ECTS credits.

History requirements:

Any two elementary courses at the 100 level
Three General History Electives
History electives
Senior Capstone

Distribution requirements:

- Two Kazakh courses
- History of Kazakhstan
- Philosophy/Religion
- Rhetoric and Composition
- Social Science electives
- Natural Sciences and Math
- Any courses from SSH or SEng

KEY FACTS

START	August of each year	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1900 USD PER YEAR *Indicated tuition amount with the highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS | International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.

WORK WHILE STUDYING | Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate.

WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Law — Management consultancy — Civil service — Marketing 	<ul style="list-style-type: none"> — Diplomacy — Financial services and analysis — Journalism 	<ul style="list-style-type: none"> — School teaching — Academic teaching and research
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MATHEMATICS, BSC

ABOUT

PROGRAM TITLE. BSC IN MATHEMATICS

SHORT OVERVIEW

The Bachelor of Science Program in Mathematics is a 240 ECTS program and is to be completed in 8 regular semesters. The program is designed to train students in the theory of mathematics and to develop mathematical skills and mastery, used in the modern applications of mathematics in science and engineering.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/bsc-in-mathematics/

OVERVIEW

ABOUT. The Bachelor of Science Program in Mathematics is a 240 ECTS program and is to be completed in 8 regular semesters. The program is designed to train students in the theory of mathematics and to develop mathematical skills and mastery, used in the modern applications of mathematics in science and engineering. Through specialized courses as part of mathematics elective and technical elective

requirements, students will have the opportunity to deepen and broaden their mathematical foundations and skills, which will make them more competitive in the mathematics-related job market and/or will prepare them for graduate studies in the area of pure and applied mathematics or statistics. Flexibility in selecting non-mathematics electives will also allow students to complete a minor in a different discipline.

OUTLINE

PROGRAM STRUCTURE.

CORE COURSES (74 ECTS):

- MATH 161 Calculus I
- MATH 162 Calculus II
- MATH 251 Discrete Mathematics
- MATH 263 Calculus III
- MATH 273 Linear Algebra with Applications
- MATH 274 Introduction to Differential Equations
- MATH 321 Probability
- MATH 322 Mathematical Statistics
- MATH 351 Numerical Methods
- MATH 361 Introductory Real Analysis I
- MATH 402 Abstract Algebra I

ELECTIVE COURSES (AT LEAST 28 ECTS):

300-and 400-level MATH courses with at least 24 ECTS at the 400 level

NATURAL SCIENCE REQUIREMENT, AT LEAST 34 ECTS, WITH THREE COMPULSORY COURSES:

- PHYS 161 Physics I for Scientists and Engineers with Laboratory
- PHYS 162 Physics II for Scientists and Engineers with Laboratory
- PHYS 270 Computational Physics with Laboratory

COMPUTER SCIENCE REQUIREMENT, AT LEAST 16 ECTS, WITH COMPULSORY COURSES:

- CSCI 151 Programming for Scientists and Engineers
- CSCI 152 Performance and Data Structures

HUMANITY-SOCIAL SCIENCE REQUIREMENT, AT LEAST 42 ECTS, WITH COMPULSORY COMPONENTS:

- HST 100 History of Kazakhstan (compulsory)
- 2 Kazakh Language/Literature courses.
- MATH 499 Graduation Project

Short description
MATH 499 Graduation Project is a 6-ECTS elective, which is counted towards the mathematics core elective credit requirement. The goal of the course is to engage

the student in original thinking and independent work towards the creation of a capstone thesis under the supervision of an experienced faculty. Courses may change year to year.

KEY FACTS

START	August	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Food - 26 400tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate
WORK AFTER GRADUATION	Many of the graduates have been admitted to various postgraduate study programs in world class universities in the United States and Europe, and other parts of the world, in Applied Mathematics, Operations Research, Economics, Mechanical Engineering, Statistics and Bio-Medical Statistics, and Pure Mathematics. A partial list includes Stanford University, Oxford University, University of North Carolina Chapel Hill, University of Illinois Urbana-Champaign, Delft University of Technology, University of Manchester, and McMaster University, University of Chicago.

MECHANICAL AND AEROSPACE ENGINEERING, BENG

ABOUT

PROGRAM TITLE. BENG IN MECHANICAL AND AEROSPACE ENGINEERING
SHORT OVERVIEW

The Mechanical and Aerospace Engineering degree program in School of Engineering and Digital Sciences is based on an innovative curriculum of systems-based education (where engineering problems are tackled in an integrated way), combined with specialisations in the areas of mechanical and aerospace engineering.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://seds.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-mechanical-and-aerospace-engineering/

OVERVIEW

ABOUT. The Mechanical and Aerospace engineering discipline staff has established good working relationship with government, industry, and the local community in our region. Our Faculty has developed academic and scholarly links both nationally and internationally. Students studying mechanical and aerospace engineering address areas of specialization during their study and need to be competent in mathematics and physics as well as understanding the fundamentals of

mechanical and aerospace engineering, which include engineering statics and dynamics, manual and computer aided drawing (CAD), and basic materials theory. After completing the core modules students are ready to take next steps in the profession by means of the elective modules. All these subjects are taught from a practical perspective.

OUTLINE

PROGRAM STRUCTURE

Most courses are of standard credit value carrying 6 ECTS each, except for some courses, such as Calculus 1, etc. which carry ECTS other than 6. A student is expected to spend about 25 to 30 hours of study per semester (inclusive of class contact and other study effort) for 1 ECTS. The courses offered will be updated from time to time according to the need of society and the profession.

Students admitted to the program are required to complete a minimum of 248 or more ECTS to satisfy the degree requirements. However, they may choose to take additional courses beyond the basic requirements. Please check the course structure on program's page: <https://seng.nu.edu.kz/programs/undergraduate-programs/bachelor-of-engineering-in-mechanical-and-aerospace-engineering/>

KEY FACTS

START	August 2020	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available. Scholarships for International students are available.

VISA

GETTING A VISA	International students receive visa support
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WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistants positions are available
WORK AFTER GRADUATION	On completion of a Mechanical engineering degree, graduates are able to work in a large number of industries like: manufacturing, mining, electricity and water supply, engineering and management consulting, automotive, aerospace and aeronautical, process industries, electricity generation, and electronics manufacture and applications. Further to this, graduates are expected to fill positions in national and/or international firms that require expertise in applied mechanics, engineering design, energy applications, and advanced materials and manufacturing techniques. We are offering our students future opportunities in terms of Master and PhD studies and positions in research centers, locally or abroad.



MEDICAL SCIENCES, BMS

ABOUT

PROGRAM TITLE. BACHELOR OF MEDICAL SCIENCES SHORT OVERVIEW

The Bachelor of Medical Science Degree (Pre-Medicine) Program is a full-time, undergraduate program of study providing professional qualification after four years (eight semesters) of study, leading to the academic degree of "Bachelor of Medical Sciences."

APPLICATION DEADLINE	April
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://nusom.nu.edu.kz/bachelor-of-medical-sciences/

OVERVIEW

ABOUT. The Program is concentrating on the development of scientific competencies of students rather than just creating a set of academic courses that are necessary for the completion of the program. It is very important to develop the skills and knowledge in the area of medical sciences that would prove necessary to be successful in any subsequent path: the School of Medicine, further graduate studies with the goal of attaining a Masters or/and PhD degree, or even pursuing research externally after earning a Bachelor's degree. After successful completion of this program, students will satisfy the progression criteria required for the MD program in NUSOM. However, acceptance to and completion of the Bachelor of Medical Sciences (Pre-Medicine) program does not guarantee progression to the MD program.

The MD Progression Committee, established at NUSOM, will decide if a student progresses based on the following criteria:

- Interview with the MD Progression Committee
- GPA 3.0 or above
- Professional behavior during Bachelor of Medical

Sciences (Pre-Medicine) program

- Extracurricular activities
- Recommendation letters
- Additional documents requested by the MD Progression Committee.

If the MD Progression Committee decides to progress the students to the MD program, then the student will start the second year of the MD program, which will allow completing both programs in 7 years.

OUTLINE

PROGRAM STRUCTURE In the first two years, the Bachelor of Medical Sciences (Pre-Medicine) program utilizes the undergraduate core curriculum with courses in various areas of natural sciences, humanities and social sciences to broaden academic experience and to help students develop the knowledge, skills and attributes needed for the successful completion of the program. In the first half of the third year, students will take courses in the area of biomedical sciences to prepare them for the advanced courses to be taken in their fourth year of study. In addition, the second half of the third

year will be dedicated to a capstone project that will help students develop their research skills by designing a research study in the area of biomedical sciences, conducting experiments and collecting, interpreting, statistically analyzing and presenting the obtained data. The fourth year will be dedicated to more advanced courses that are taught in the first year of the "Doctor of Medicine" (MD) program. This approach will allow students to obtain knowledge and understanding of complex pathological processes in health and disease.

KEY FACTS

START	August	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available. Scholarships for International students are available.

VISA

GETTING A VISA	International students receive visa support
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WORK

WORK PERMITS	N/A
WORK WHILE STUDYING	Bachelor of Medical Sciences is a full time intensive program and is not compatible with any work (part-time or full time)
WORK AFTER GRADUATION	After successful completion of this program, the students will be able to succeed in the School of Medicine, to enter graduate school to earn a Masters or/and PhD degree, or to do research after earning a Bachelor degree.



MINING

ENGINEERING, BSC

ABOUT

PROGRAM TITLE. B.SC. IN MINING ENGINEERING

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://smg.nu.edu.kz/en/programs/undergraduate-programs.html

OVERVIEW

ABOUT. The mineral industry of Kazakhstan is one of the most competitive and growing sectors of the country with a wide range of metallic ores, industrial minerals and fossil fuels. The country is a large producer of natural resources such as coal, uranium, chromite, copper, gold and zinc. The economy of Kazakhstan is heavily dependent on the production of natural resources. Mining engineers are responsible for planning, designing

and operating mines by employing science and technology. They are involved in every stage of the mining cycle from exploring new deposits and deciding if they are economically viable through designing and constructing mines, managing the extraction of the mineral resources, ensuring the safety of the environment and operations to mine closure.

OUTLINE

PROGRAM STRUCTURE. The program starts with basic courses such as Calculus, Physics, English, Chemistry, Geology, and Introduction to Natural Resources. The student starts his/her study with engineering fundamentals as core courses and the last two years involve mining subjects with opportunities to discover and tackle real challenges in modelling, designing and

planning of mines. Field trips and practical laboratory exercises are part of the mining engineering program for the purpose of applying theory to practice. The program ends with a research thesis, in which students need to design and present a real problem in a desired discipline of mining engineering.

KEY FACTS

START	August	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Food - 26 400 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available. Scholarships for International Students are available

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistant positions are available
WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Mining and tunneling: mine planning, drill and blast, ventilation; — Government: mines inspectorate, leasing, geological surveys, environmental monitoring, NASA, ESA; — Consultant: project coordination, financial analysis, equipment optimization, explosives applications; — Finance and banking: investment banking, resource/ mining analyst; — Business development: project management, environmental consultant; — Academic: university teaching, research and consulting.



NURSING, BSN

ABOUT

PROGRAM TITLE. BACHELOR OF SCIENCE IN NURSING PROGRAM (BSN)

SHORT OVERVIEW

Nazarbayev University School of Medicine offers a premiere, state-of-the-art undergraduate Bachelor of Science in Nursing (BSN) program that integrates international education, training, and qualifications for both the European Union standards and the U.S. requirements for baccalaureate education for professional nursing practice. It is the only BSN program of its kind in all of Kazakhstan.

APPLICATION DEADLINE	April
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://nusom.nu.edu.kz/admissions/nursing-programs/

OVERVIEW

ABOUT. This 4-year Bachelor of Science program in Nursing is offered through Nazarbayev University School of Medicine (NUSOM) and provides: The unique opportunity to study and work alongside medical students, public health specialists, faculty and medical professionals; A program built upon a core foundation in sciences and humanities and a core nursing-specific curriculum; Learning opportunities where you will have

both classroom and simulation training in Simulation Center and direct patient-care, clinical focused learning in hospital settings; Student progression from classroom focus to a more clinical patient-care focus by the fourth year; Opportunities for research as throughout the program, students will have an opportunity to work on faculty and/or student research projects. The final year will require the completion of a Senior Capstone Project.

OUTLINE

PROGRAM STRUCTURE. This following program structure provides only an overview of the courses and is not a complete course listing. Courses with a science focus include: Chemistry, Anatomy & Physiology, Pathophysiology, Microbiology, Genetics, Pharmacology. Courses in social and behavioral sciences include: Sociology, Psychology. Courses with a research focus

include: Statistics, Research Methods, Data Analytics for Quality Improvement, Senior Capstone Project. Courses that focus on Nursing Science include: Foundations of Nursing Practice, Health Promotion and Disease Prevention, Nutrition, Medical-Surgical Nursing courses, Pediatric Nursing, Obstetric Nursing, Psychiatric Nursing, Community Health Nursing, Geriatric Nursing.

KEY FACTS

START	August	LANGUAGES	English
PROGRAM INTENSITY	Full-time. Duration. 4 years	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with the highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on main campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available



PETROLEUM ENGINEERING, BSC

ABOUT

PROGRAM TITLE. BSC IN PETROLEUM ENGINEERING

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://smg.nu.edu.kz/en/programs/undergraduate-programs.html

OVERVIEW

ABOUT. Hydrocarbons continue to be world's leading energy source that drives the modern civilization. Kazakhstan is among the largest oil producing countries in the world. Kazakhstan is also a transit country for oil and gas pipeline exports to China – the world's largest importer of oil and gas.

Therefore, a BSc degree in Petroleum Engineering in Kazakhstan offers an exciting career in the oil and gas industry. It opens opportunities in the high demand market to work across the globe in technically

challenging and financially rewarding jobs. Petroleum engineers are responsible for producing hydrocarbon resources from oil and gas reservoirs. They are capable of addressing and solving important technological challenges, which will ultimately lead to energy security and socio-economic success. This challenging and rewarding field of engineering requires creative application of a wide spectrum of knowledge, including, but not limited to geology, mathematics, physics, chemistry, and environmental science.

OUTLINE

PROGRAM STRUCTURE. The program consists of basic courses such as mathematics, physics, chemistry, engineering foundations, introduction to petroleum engineering, fluid mechanics, and thermodynamics which are delivered within the first two years. Third and fourth years delve into in-depth understanding

of different petroleum engineering disciplines such as reservoir engineering, reservoir simulation, production, drilling, etc. These topics enhance knowledge of students to solve problems in oil and gas production, field development strategies, drilling/production design, and economic analysis.

KEY FACTS

START	August	LANGUAGES	English
PROGRAM INTENSITY	Full-time duration. 4 years	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistant positions are available
WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Petroleum industry - National and international oil and gas companies hire petroleum engineers in different sectors such as exploration, drilling, petrophysics, production, reservoir, management; — Oil/Gas midstream industry - Petroleum engineers are required to design pipelines and transportation systems for oil and gas, which is an essential business in Kazakhstan; — Academics - Carry out scientific research in a university or a research center; — Also there are different opportunities in the petrochemical industry, geothermal energy development.



PHYSICS, BSC

ABOUT

PROGRAM TITLE. BSC IN PHYSICS, BSC

SHORT OVERVIEW

The mission of the Physics Department is to provide students with the skills and tools to develop the underlying technologies and support knowledge necessary for the technological-industrial infrastructure of Kazakhstan and other countries.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/bsc-in-physics/

OVERVIEW

ABOUT. Students will develop comprehensive understanding of the fundamental laws of physics, abstract reasoning ability and creative scientific approach supplemented by mathematical, computational and experimental skills. Students are also expected to develop a mature understanding of their personal strengths and interests in physics research and beyond.

The Program will prepare students for national and international careers and/or graduate studies in diverse areas of physical sciences and engineering. Additional outcomes preparing students for modern science and technology careers will include the ability to work effectively within a team, strong scientific communication skills, and exposure to academic and/or industrial research environment.

OUTLINE

PROGRAM STRUCTURE. Apart from Physics courses, students have to take couple courses from other disciplines from 1st to 3rd years of study like Kazakh language and History of Kazakhstan courses, Calculus, Programming for Scientists and Engineers course etc. Full program outline can be found on School's website. Some courses may change from year to year.

1) Physics Core Courses (54 credits):

Careers in Physics (PHYS105)
 Physics I for Physics Majors with Laboratory (PHYS171)
 Physics II for Physics Majors with Laboratory (PHYS172)
 Classical Mechanics I (PHYS221)
 Classical Mechanics II (PHYS222)
 Electrical and Electronic Circuits I with Laboratory (PHYS251/ROBT203)
 Modern Physics with Laboratory (PHYS261)
 Computational Physics with Laboratory (PHYS270)
 Thermodynamics and Statistical Physics (PHYS280)

Mathematical Methods of Physics (PHYS315)
 Classical Electrodynamics I (PHYS361)
 Classical Electrodynamics II (PHYS362)
 Optics with Laboratory (PHYS370)
 Physics Seminar (PHYS395)
 Quantum Mechanics I (PHYS451)
 Quantum Mechanics II (PHYS452)
 Advanced Experimental Physics (PHYS465)
 Physics Colloquium (PHYS495)

Senior-Year Options:

1) Bachelor Thesis Option (12 credits)
 Physics Elective Courses (6 credits)
 Bachelor Thesis (6 credits)
 2) No Thesis Option (12 credits)
 Physics Elective Courses (6 credits)
 Natural Science or Technology Elective Course (3 credits)
 [subject to the approval by the Physics Department]

Physics Research Course (3 credits)
 2) Mathematics and Programming Core Courses (22 credits):
 Calculus I (MATH161)
 Calculus II (MATH162)
 Calculus III (MATH263)
 Linear Algebra with Applications (MATH273)
 Introduction to Differential Equations (MATH274)
 Programming for Scientists and Engineers (CSCI151)
 3) Other Natural Science Core Courses (4 credits):
 Chemistry I with Laboratory (CHEM101 and CHEM101L)
 4) Required Communication Courses (9 credits):

Communication Foundations I (COMM101)
 Communication Foundations II (COMM102)
 Scientific Writing for Popular Media (COMM225)
 5) University-required Kazakh History, Language and Culture courses (9 credits):
 History of Kazakhstan (HST 100)
 6 credits of Kazakh Language, Literature or Culture (number starting with KAZ)
 6) Humanities or Social Science Electives (6 credits):
 7) Unrestricted Electives (9 credits)

TOTAL: 125 credits Courses may change from year to year.

KEY FACTS

START	August
PROGRAM INTENSITY	Full-time duration. 4 years
LANGUAGES	English
DELIVERY MODE	On Campus

FOR INFORMATION PLEASE REFER TO PAGE 23

ADMISSIONS

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any
FUNDING	Merit-based scholarships for top international candidates recommended by the Admissions Committee of each School. available

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work the 0.25 work rate
WORK AFTER GRADUATION	Industries where the major can be applied: - Research and development in natural sciences and engineering (NSE) - Astronomy and Space Science - Nuclear Energy, Geophysics and Seismology - Climate and Meteorology - Oil and Gas - Water Resources management - Hazardous waste management - Mining - Finance and Banking - Aerospace and Defense - Telecommunications - Big data - Biotechnology - High-performance computing

POLITICAL SCIENCE AND INTERNATIONAL RELATIONS, BA

ABOUT

PROGRAM TITLE. BA IN POLITICAL SCIENCE AND INTERNATIONAL RELATIONS

SHORT OVERVIEW

The degree program in Political Science and International relations (PSIR) offers a flexible and applied degree that is designed to train the next generation of political scientists as well as provide a solid generalist degree to prepare students in variety of professions. It also provides excellent training for future graduate study.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/political-science-and-international-relations/

OVERVIEW

ABOUT. BA in Political Science and International Relations is a flexible and applied program designed to train the next generation of political scientists, as well as provide a solid and rigorous preparation for a variety of professions or further graduate studies.

The undergraduate training in political science and international relations emphasizes the development of analytical, methodological, and applied skills to nurture

mature and competent individuals that can function not only in governmental and legal careers, but also in the private sector. A Minor in Political Science and International Relations is also available. Students can choose from a range of courses to tailor their education in accordance with their chosen path and its separate course requirements.

OUTLINE

PROGRAM STRUCTURE.

BA program runs 4 years (8 semesters) where you are required to complete 240 ECTS credits.

PSIR REQUIREMENTS:

- Introduction to Comparative Politics
- Introduction to International Relations
- Introduction to Political Theory
- Quantitative Methods for Political Science
- Social Science Research Methods
- Credits in non-intro PSIR courses.

DISTRIBUTION REQUIREMENTS:

- History course
- History of Kazakhstan
- Philosophy/Religion
- Rhetoric and Composition
- Humanities electives
- Social Science electives
- Natural Sciences and Math
- Any courses from SHSS, SST or SEng

KEY FACTS

START	August of each year	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1900 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.
WORK WHILE STUDYING	Research assistants positions are available
WORK AFTER GRADUATION	<ul style="list-style-type: none"> <li style="width: 50%;">— Public Sector <li style="width: 50%;">— Non-governmental Organizations <li style="width: 50%;">— Legal Services <li style="width: 50%;">— United Nations and other international organizations <li style="width: 50%;">— Private firms and Multinational organizations

ROBOTICS AND MECHATRONICS, BSC

ABOUT

PROGRAM TITLE. BSC IN ROBOTICS AND MECHATRONICS
SHORT OVERVIEW

The program is the nation's first undergraduate Robotics and Mechatronics degree program. It is also one of the first Robotics and Mechatronics programs in the world. The program will educate young engineers for working with latest intelligent robotics and mechatronics systems in different industries, creating local robotics and mechatronics companies and preparing them for graduate work. Robotics students have access to state-of-the-art facilities available at the department. There are opportunities for students to be members of the Student Robotics Club, to participate in the faculty research projects and do industrial internships. Graduates will be prepared for an industrial and research-oriented career, either working as engineers with advanced technological systems or directly pursuing further research (graduate

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://seds.nu.edu.kz/programs/undergraduate-programs/bss-in-robotics-and-mechatronics/

OVERVIEW

ABOUT. Robotics is the branch of science and technology that deals with the design, manufacture, and application of intelligent machines as well as of the computer systems and software that power their intelligence. Mechatronics is the integration of mechanical, electronic and computer engineering in the design of high performance hybrid systems that embody numerous 'intelligent' or 'smart' features. The interdisciplinary engineering field of Robotics and Mechatronics studies automata from an engineering perspective and designs high performance solutions at affordable costs. The broad, experience-based Robotics and Mechatronics program is designed for students who intend to provide expertise on complex systems and lead organizations in all domains. A hands-on, learning-by-doing approach qualifies students to work on many of our society's most interesting, important and challenging

problems without ignoring the human element and the end-user. The permanent faculty of the Department of Robotics and Mechatronics shares a wealth of experience in robotics, mechatronics, automation, manufacturing, and machine learning. The rapidly expanding department has brand new teaching and research laboratories with state-of-the-art installed equipment providing the necessary infrastructure for cutting edge research. Advanced equipment such as laser scanners, 3D printers, printed circuit mills and presses, industrial robot manipulators, mobile robot systems, motion capture systems, augmented reality goggles, haptic feedback and motion control setups are readily available for our students and actively integrated in our curriculum.

The Department already has several research projects

funded by the Ministry of Education, the Nazarbayev University Research and Innovation System and the World Bank. The growing department is actively recruiting research-oriented candidates that have the potential to enrich its research foci in medical and industrial robotics, embedded systems, intelligent control and advanced manufacturing.

OUTLINE

PROGRAM STRUCTURE. YEARS 1 AND 2 of our core courses follow a common curriculum, providing a fundamental technical knowledge and necessary analytical skills.

YEARS 3 AND 4 introduce a strong list of robotics and mechatronics technical elective courses such that the students can focus on a special area of robotics & mechatronics. Natural science and humanities elective courses will help you develop entrepreneurship, communication skills, provide an insight of the increasingly global context of modern engineering and technology to make you as an intelligent and professionally successful engineer or manager.

Graduation project in Year 4 will combine the knowledge and skills acquired by the students in a culminating design experience.

PROGRAM SYLLABUS

YEAR 1 - Fundamental Engineering & Science Skills

The following courses are designed to provide strong fundamental engineering & science skills:

INTRODUCTION TO ROBOTICS

- Web Programming and Problem Solving
- Computer Aided Drawing
- Fundamentals of Programming
- Laboratory in Machining
- Calculus I and II
- Physics and Engineering with Lab I and II
- Communications I and II
- Kazakh Language elective

YEAR 2 - Core Engineering & Technology Skills

Year 1 themes continue but at a more advanced level. Students develop key skills for the engineering profession, including team working on practical design projects:

- Electrical and Electronics Circuits I and II with Lab
- Signals and Sensing with Lab
- Microcontrollers with Lab
- Mechanics: Statics and Dynamics
- System Dynamics and Modeling
- Linear Algebra with Applications
- Introduction to Differential Equations
- History of Kazakhstan
- Basic Science and Humanities Electives

YEAR 3 - Specialist Engineering & Technology Skills

STUDENTS DEVELOP CORE ENGINEERING AND TECHNOLOGY SKILLS THROUGH CLASSES THAT INCLUDE THE FOLLOWING TOPICS:

- Mechanical Design 1 and 2
- Linear control Theory with Lab
- Electromechanical Systems with Lab
- Basic Science and Humanities Electives
- Technical Electives including
- Embedded Systems
- Image Processing
- Industrial Automation
- In summer students have an industrial or academic internship.

YEAR 4 - Engineering for your Professional Future

IN THE FORTH YEAR STUDENTS ARE GIVEN THE OPPORTUNITY TO CHOOSE FROM A RANGE OF TECHNICAL ELECTIVES AND WORK ON YOUR GRADUATION PROJECT. CLASSES WILL INCLUDE:

- Robot Dynamics and Control
- Robotic/Mechatronic System Design
- Graduation Project
- Technical Electives including
- Statistical Methods and Machine Learning
- Robot Motion Planning
- Mobile Robotics
- Medical Robotics
- Aerial and Space Robotics
- Modern Control Theory
- Digital System Design
- Rapid Design Using Prototyping



KEY FACTS

START	August 2020	LANGUAGES	English
PROGRAM INTENSITY	4 years Full-Time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 2300 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation - 30 000 KZT (about 80 USD) per semester. Food - 26 400tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships are available. Scholarships for International students are available.

VISA

GETTING A VISA	International students receive visa support
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WORK

WORK PERMITS	International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa.
WORK WHILE STUDYING	Might be possible to work as teaching assistant or research assistant on campus with the 0.25 work rate
WORK AFTER GRADUATION	Graduates will be equipped with mixture of complex knowledge and skills across disciplines such as electrical, mechanical and computer engineering. They will have a strong advantage in seeking employment in hi-tech industries, using computer integrated manufacturing systems and automation equipment, and in research and development centers. The program is also designed so that our graduates will be able to pursue advanced studies at leading institutions of the world.

SOCIOLOGY, BA

ABOUT

PROGRAM TITLE. BA IN SOCIOLOGY

SHORT OVERVIEW

A BA in sociology from NU will provide you with a solid foundation for graduate study in the social sciences, and can prepare students for careers in such fields as social services, social research and data analysis, non-profit and charity organizations, government and human resources. The program helps students develop communication, research, organizational, and problem-solving skills.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/ba-in-sociology/

OVERVIEW

ABOUT.

A program that focuses on the systematic study of human social institutions and social relationships. Includes instruction in social theory, sociological research methods, social organization and structure, social stratification and hierarchies, dynamics of social change, family structures, social deviance and control, and applications to the study of specific social groups, social institutions, and social problems. Students learn how to collect and critically analyze information using both quantitative (statistical analysis) and qualitative (in-depth interviews, ethnography, focus groups, textual analysis) methods. These skills can subsequently lead students to pursue careers in marketing, education, research, policy analysis, data analytics, counselling, journalism, social work, and more.

OUTLINE

PROGRAM STRUCTURE BA program runs 4 years (8 semesters) where you are required to complete 240 ECTS credits.

SOCIOLOGY COURSES:

- Introduction to Sociology
- Qualitative Methods
- Quantitative Methods
- Classical Sociological Theory
- Sociology electives
- Senior Capstone

- Social Science Research Methods
- Three Social Science electives
- Natural Sciences and Math
- Any courses from SSH or SEng

DISTRIBUTION REQUIREMENTS:

- History Course
- History of Kazakhstan
- Philosophy/Religion
- Rhetoric and Composition
- Humanities Electives

KEY FACTS

START	August
PROGRAM INTENSITY	4 years. Full-time
LANGUAGES	English
DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1900 USD PER YEAR * indicated tuition amount with highest discount applied
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS | International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.

WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Marketing — Education — Research — Policy analysis — Data analytics — Counselling — Journalism — Social work
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WORLD LANGUAGES, LITERATURES AND CULTURES, BA

ABOUT

PROGRAM TITLE. BA IN WORLD LANGUAGES, LINGUISTICS AND LITERATURE

SHORT OVERVIEW The Bachelor of Arts degree program in Languages, Linguistics and Literatures offers a flexible and applied degree that is designed to train the next generation of specialists in linguistics, languages and literature, as well as provide a solid generalist degree to prepare students in a variety of professions. This major program provides students with a focused familiarity with one of four languages, cultures, and history of the world: Mandarin Chinese, French, Spanish and German, and thus offers excellent training for future graduate study and employment in the government or business sectors and non-government organization particularly in fields with a strong language / communication / literature excellence requirements, positions including translation, museum work, library, arts or academy.

APPLICATION DEADLINE	April 30
DURATION	4 years
APPLICATION FEE	5 000 KZT
PROGRAM WEBSITE	https://ssh.nu.edu.kz/ba-in-world-languages-literature-and-culture/

OVERVIEW

ABOUT. Students in LLL program can study everything from the history of the Theatre, to the literature of Japan, to the way language is produced and processed in the human brain, varies and changes through time and space. By studying the programs offered by LLL department, students will gain a nuanced understanding of the intricacies of language, culture, poetry and literature, and will become critical and creative writers, and effective communicators.

Students completing a degree in Languages, Linguistics and Literatures are required to choose one of the three

tracks - particular areas of specialization, including: World Literature, Language Acquisition, and Linguistics. The tracks are mutually complementary and many of the LLL courses comprise common course requirement for all three concentrations.

OUTLINE

PROGRAM STRUCTURE. Elementary Course: Introduction to Literary Studies OR, Introduction to Cultural Studies
Intermediate/Advanced: A minimum of 24 credits at the Advanced Level
WLLC Electives: Any additional WLLC courses, including language courses
Humanities: History Course, History of Kazakhstan, Philosophy/Religion, SHSS 150, Humanities Electives
Social Sciences: 30 Social Science electives

Natural Sciences & Math: Natural Sciences, 12 credits Mathematics OR 6 Mathematics & 6 Computer Science (6 credits in Quantitative Methods may be counted toward the Mathematics requirement)
Electives: Any courses from SHSS, SST and Seng

KEY FACTS

START	August	LANGUAGES	English
PROGRAM INTENSITY	4 years. Full-time	DELIVERY MODE	On Campus

ADMISSIONS

FOR INFORMATION PLEASE REFER TO PAGE 23

TUITION

TUITION FEE	STARTING FROM 1900 USD PER YEAR *Indicated tuition amount with the highest discount applied.
LIVING COSTS	Accommodation- 30 000 KZT (about 80 USD) per semester. Meal - 25000 tenge (around 70 USD) on campus. These costs may vary for any individual.
FUNDING	Merit-based scholarships. Scholarships for International students are available.

VISA

GETTING A VISA | International students receive visa support

WORK

WORK PERMITS | International students are allowed to work ON CAMPUS 10 hrs/week during the study period with a current student visa. At summer semester while no classes are held the students are allowed to work 40 hrs/week.

WORK AFTER GRADUATION	<ul style="list-style-type: none"> — Public Sector — Museums — Libraries — Publishing (newspapers, books, scripting, editing) — Academia (schools, universities) 	<ul style="list-style-type: none"> — Entertainment industry (creative writing for theatre, television and cinema) — Government Entities 	<ul style="list-style-type: none"> — Non-government Organizations — United Nations and other international organizations
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