DEVELOPING MOUNTAIN SOCIETIES WITH A WORLD CLASS EDUCATION

A Guide to the University of Central Asia Undergraduate Education
What is UCA?

- Central Asia’s **first** regional, **fully residential** university based in three countries.
- Central Asia’s **first regional** university with **residential campuses** in three countries
- Designed to provide a **high quality education** based on international partnerships, committed and qualified faculty and state of the art facilities
- Committed to fostering **international standards** and Central Asian talent
- A fully residential, **English language** educational experience
- Dedicated to cultivating an ethos of **community service** and **engagement** in surrounding mountain communities
- A **partnership** between the governments of Tajikistan, the Kyrgyz Republic, Kazakhstan and the Aga Khan Development Network
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“By creating intellectual space and resources, this University will help turn the mountains that divide the nations and territories of Central Asia into the links that unite its peoples and economies in a shared endeavour to improve their future well-being.”

His Highness the Aga Khan
Chancellor, University of Central Asia
Message from UCA Leadership

Welcome to the University of Central Asia (UCA). Whether you are a prospective student or a parent, a professor or a researcher, we are pleased to introduce you to UCA: Central Asia’s first regional, fully residential university based in three countries.

As a partnership between the Aga Khan Development Network and the Governments of Tajikistan, Kyrgyz Republic and Kazakhstan, UCA combines international resources and educational standards with regional talent and community investment. We offer students from Central Asia something different: an immersive, residential campus experience where students study and live amongst faculty, fostering learning, mentorship and the free exchange of ideas.

Our curriculum is designed by some of the best minds in higher education, and rooted in the economic realities of Central Asia. UCA’s five-year degree programme is designed to create qualified job applicants, and to produce entrepreneurs and job creators in the region’s growth sectors.

Our students will graduate from the University knowing how to lead, communicate, and think critically. They will have benefited from modern, world-class learning facilities, exposure to professional experience through internships and hands-on learning projects, and mentorship and institutional support in their academic, professional and personal lives.

We look forward to welcoming the first undergraduates to campus. UCA admissions are solely merit-based; no qualified student will be denied admission due to financial need. We are looking for the best and brightest the region has to offer, and believe a diversity of backgrounds and experiences will strengthen our undergraduate community.

UCA is here for the long haul. Not only is it a timely investment for the region today, it is built to last for generations. I hope you will consider applying to join the UCA community, to lend your talents and make your mark.

Dr Bohdan Krawchenko
Director General and
Dean of Graduate Studies

Dr Shams Kassim-Lakha
Executive Chairman,
Board Executive Committee

Dr Ariff Kachra
Dean
School of Arts and Sciences

Naryn town, Kyrgyz Republic
University of Central Asia

The University of Central Asia (UCA) was founded in 2000. The Presidents of Tajikistan, the Kyrgyz Republic, and Kazakhstan, and His Highness the Aga Khan signed the International Treaty and Charter establishing this secular and private University; ratified by the respective parliaments, and registered with the United Nations. The Presidents are the Patrons of UCA and His Highness is the Chancellor. UCA’s mission is to promote the social and economic development of Central Asia, particularly its mountain societies by offering an internationally recognised standard of higher education, and help the different peoples of the region to preserve and draw upon their rich cultural traditions and heritages as assets for the future.

UCA consists of its Undergraduate School of Arts and Sciences, the School of Professional and Continuing Education, the Graduate School of Development’s Institute of Public Policy and Administration and Mountain Societies Research Institute, the Cultural Heritage and Humanities Unit and the Aga Khan Humanities Project.

*UCA Naryn Campus Academic Block and Student Dormitories*
From left to right:

His Highness the Aga Khan and President Emomali Rahmon of Tajikistan sign the founding Treaty in Dushanbe.

His Highness the Aga Khan and President Askar Akayev of Kyrgyzstan sign the founding Treaty in Bishkek.

His Highness the Aga Khan and President Nursultan Nazarbayev of Kazakhstan sign the founding Treaty in Astana.

Why are UCA Campuses Located in Naryn, Khorog & Tekeli?

The best universities in the world offer a fully residential experience, where living and studying among fellow students and faculty facilitates learning and educational experiences. Located in scenic mountain settings, our campuses have world class academic and residential facilities. Nearby campus towns of Naryn, Kyrgyz Republic; Khorog, Tajikistan and Tekeli, Kazakhstan offer culturally and ecologically rich environments and communities.

UCA’s campuses are deliberately located on the Silk Road, a historic trade and transportation route that facilitated the global exchange of goods, cultures and ideas. Each campus also lies within 150 miles of the contemporary economic and political powerhouse of China. By locating our campuses in mountain communities, UCA hopes to be at the heart of an intellectual and economic transformation.
UCA's history and efforts in the region are long-standing. Since the University was established under an International Treaty in 2000, UCA has delivered high-quality professional and vocational programmes, promoted a rigorous research agenda, and worked in partnership with universities and government through the:

- School of Professional and Continuing Education (SPCE)
- Mountain Societies Research Institute (MSRI)
- Institute for Public Policy and Administration (IPPA)
- Aga Khan Humanities Project (AKHP); and
- Central Asian Faculty Development Programme (CAFDP)

85,000 learners trained by the School of Professional and Continuing Education
13,475 students across 77 universities who were taught humanities by 126 instructors through the Aga Khan Humanities Project (2015)
80 publications produced by the Mountain Societies Research Institute, Institute of Public Policy and Administration and the Cultural Heritage and Humanities Unit
1,500 civil servants trained in governance and public policy in Kyrgyz Republic, Tajikistan and Afghanistan.
Building Through Partnerships

UCA is built on partnerships that promote the exchange of information and resources. These partnerships cross political borders and industries within Central Asia and beyond.

International university partners have been instrumental in supporting UCA’s development of world class curriculum and supporting graduate study for UCA future faculty.

Preparatory Programme: Seneca College, Canada

UCA designed its first year preparatory programme in partnership with Seneca College in Canada. This partnership generated a curriculum rooted in the North American model carefully and meticulously adapted to the Central Asian context, emphasising English, Math, and Science.

The Core Curriculum is being developed in partnership with faculty from the following universities:

- Aga Khan University
- Columbia University
- Freie Universitat Berlin
- Stanford University
- Universitat Augsburg
- University of British Columbia
- University of Indiana
- University of Kent
- University of London
- University of Michigan
- University of Toronto
- University of Victoria

Partnerships to Develop Majors and Minors

Countries including Australia, Canada, France, Germany, Kazakhstan, Kyrgyzstan, Latvia, Norway, Pakistan, Russia, Switzerland, Tajikistan, United Kingdom and the United States of America have generously contributed to the development of UCA’s curriculum and facilitated relationships with their national universities or research institutes.

Private companies globally have also partnered with UCA by providing research, training, and advisory services to support the development of the University’s six major and three minor areas of study.
Why Choose UCA?

UCA is committed to providing access to university education to the most qualified candidates, regardless of a student’s economic status. We are looking for academically strong students who have demonstrated their potential for leadership and are passionate about learning both inside and outside the classroom. Students will explore Central Asia’s geography, culture, sociology and economy, to better understand their relationship to the world.

World-Class Curriculum

- Curriculum emphasising critical thinking across disciplines, research methods, quantitative reasoning, and writing, with a focus on ethics and community engagement
- Exposure to a unique combination of liberal arts, science, and technology
- Experiential education through team learning projects that apply academic concepts to real world issues
- Case Learning to strengthen problem solving skills
- Curriculum developed in partnership with leading universities with specific career paths in mind
- Programmes benchmarked to international professional certification bodies
- Specialisations relevant to Central Asia’s current and future labour market needs
- Internship opportunities to improve students’ employment prospects upon graduation

International Standard of Education

- Faculty with PhDs from reputable universities, engaged in research relevant to regional issues
- Experts in their fields, with 90 per cent of faculty holding PhDs
- English language instruction, with immersion programmes to create fluency
- The smallest student faculty ratio in Central Asia (9:1)

Vibrant Student Life

- A student-centred environment in-class and on campus
- High quality facilities and residence at each of UCA’s three campuses
- Opportunity to participate in social and academic clubs
- Unique study abroad opportunities
- Robust cultural, sports and social programmes in a setting of stunning natural beauty
- Student Life Advisors and Faculty Mentors providing academic and personal support
Mountain Based Education

- Curriculum encouraging students to unlock the economic potential of Central Asia’s mountainous regions
- Intellectual hub dedicated to research on issues relevant to mountain societies
- Conservation of Central Asian cultural heritage, traditions, and history

Making You Job Ready

- Paid summer internships to gain work experience with leading companies
- Career planning services and mentorship throughout your time at UCA
- A focus on ethics and entrepreneurship to create self-starters
- Quality language education that makes students marketable to the national and global economy

Affordable Education

(see page 10 for more information)

- Merit based admission; no student will be denied admission based on financial need
- Generous financial aid with merit-based scholarships, needs-based grants, and student loans on accessible terms.
- Access to student loans that provide manageable terms for young graduates
- A fixed yearly tuition payable in national currency

State of the art Facilities

- State of art classrooms and laboratories
- Advanced IT technology with wireless internet connectivity across campus
- Spacious dormitory rooms that can be configured for privacy
- Ample study, recreational areas and sports facilities
- Library connected to rich international collections and databases
- Sheltered walkways, secure facilities
- Fully-accessible for students with physical disabilities
Who is the Ideal UCA Student?

UCA students will come from different parts of Central Asia and abroad, and from all walks of life. The UCA student is:

- Committed to academic excellence
- Willing to learn and be curious about new areas of knowledge, applying learning beyond the classroom
- Dedicated to addressing real-world challenges with inventive, entrepreneurial solutions
- A great listener, team player, and leader
- Interested not only in individual success, but also the success of the community, country and region

How UCA will prepare you for the real world?

At UCA, learning goes beyond the classroom and aims to be accessible and affordable to all. You will participate in:

Practice-based learning projects

- Entrepreneurship, organisation and community service projects designed by students to solve market, institutional or community needs
- Learning through case-based study modelled on Harvard University's Case Method

Paid summer internships

- Internships at partner companies and organisations for three separate summers
- Exposure to work experience before graduation
- Competitive application process guided by university staff
During your time at UCA, you will have the opportunity to:

- **Craft** creative narratives and strong research papers in both English and Russian
- **Debate** and communicate opinions with leading experts and fellow students alike
- **Brainstorm**, plan, design, start and operate new ventures that can be financially and socially beneficial
- **Map** out complex problems and develop strong solutions that balance quantitative and qualitative thinking and leverage technology
- **Synthesise** key information through research and communication skills
- **Communicate** clearly and creatively through various multimedia and software tools
- **Practice asking** questions enabling you to become a strong decision maker
- **Develop** logical and informed conclusions drawn from analysing research and questioning your assumptions
- **Recognise trends** and draw connections between ideas and solutions, and invent new methods to solve problems
- **Make decisions** individually and in a team that enable you to be a responsible member of the societies in which you live
- **Act as a global citizen** who understands the role of context and culture in various professional and personal settings

Residential campus life

- Freedom to exchange ideas and experiences
- Establish and join social and academic clubs
- Access to tutoring and academic support
- Engage with communities in mountain societies
Student Life & Facilities

UCAs Naryn Campus is located on the banks of the Naryn River, with easy access to Naryn Town. The concept design for all campuses were conceived by the award-winning Japanese architecture firm Arata Isozaki & Associates.

Campus facilities will feature:

• **Campus libraries** tailored to support your learning interests and needs
• Learning landscapes and **outdoor learning spaces** on campus
• Secure dormitories, **inviting common areas**, including game rooms and entertainment spaces
• **Modular rooms** that you and your roommate can configure for privacy
• **International standard sports facilities**, including FIFA-approved football fields, tennis courts, fitness clubs and gymnasiums
• Wireless **Internet connectivity** across campus
• **Modern, technologically connected** classrooms, laboratories and libraries
• Sheltered walkways, automatic lighting and **secure facilities**
Support & Wellness @ UCA

Student Life Advisors on campus and in each dormitory will be guides and mentors as you and your fellow students **learn and grow together**. Student Life Advisors will organise athletic and social events, help you with academic work, provide career counselling and support you as you adjust to life on campus.

**Trained counsellors** and **medical professionals** will be available on campus to:

- Address developmental issues, including **adjusting to university studies**, being away from home, and managing personal and academic challenges
- Provide **academic support** and career guidance to help you manage your course load and navigate degree requirements, select internships and plan for your career
- Facilitate **student-led support programmes**, including peer mentoring

UCA’s sister organisation, the Aga Khan Health Service, is establishing a Family Medicine and Diagnostic Centre in Naryn to ensure direct access to medical services for UCA’s campus community. Medical professionals will provide health education and address **primary health care needs**, including first aid, immunisations and medical referrals.
Undergraduate Programme

PREPARATORY PROGRAMME
• Evaluation and enrichment in maths English and science
• Study and research skills development.

LIBERAL ARTS
Courses to develop critical thinking and introduce cross-disciplinary topics of study.
Your UCA Academic Pathway

At **UCA, you will have the opportunity to graduate with a major and minor**. **UCA is the first university in Central Asia to offer integrative majors and minors.**

Depending on the area of study, you will have the opportunity to spend at least one semester at another campus. After five years, you will graduate with either a Bachelor of Arts (BA) or a Bachelor of Science (BSc). You can attend any of the University’s three residential campuses in Naryn, Kyrgyz Republic (opening in 2016); Khorog, Tajikistan (2017); and Tekeli, Kazakhstan (2019), based on the major and minor you select.

In **Year 1**, you will complete the Preparatory Programme and hone your skills in English, maths and science.

In **Year 2**, you will complete courses in general education in liberal arts.

In **Year 3**, you will complete 10 pre-requisite courses for either the Bachelor of Science or the Bachelor of Arts majors.

In **Year 4** and part of **Year 5**, you will take approximately 10 mandatory courses and five electives to complete the requirements of your major and you will take five courses to complete your minor.

Finally, in **Years 3, 4, and 5** you will complete three different practice-based learning projects dedicated to making you job and career ready.
Dr Dietrich Schmidt-Vogt, Director of the Mountain Societies Research Institute, UCA
Teaching @ UCA

UCA will provide a world-class education with a regional focus. Academic curriculum explores environmental, cultural, political, economic and social issues unique to the region while also framing Central Asia in a global context. UCA’s unique approach to learning combines:

- Small class sizes and dedicated faculty offering each student the personal attention and mentorship needed to ensure academic success
- Faculty at UCA undergo yearly professional development in teaching methodologies
- A core competencies and broad-based liberal arts and sciences education that builds skills and capabilities in critical thinking across disciplines, ethical reasoning, research, quantitative reasoning, writing and entrepreneurship
- A discipline-based education designed by top-tier international universities in relevant, critical fields
- Research opportunities with access to the experts, data, and facilities of UCA’s research institutes and learning centres
Preparatory Programme

In your first year of study in UCA’s five-year undergraduate programme, all students enrol in the University’s Preparatory Programme. The programme includes English, mathematics and science courses and is designed to ensure you have the necessary foundational skills and knowledge to succeed in a rigorous, English-language academic environment with international standards.

The Preparatory Programme is a rigorous academic programme delivered over 33 weeks during the three semesters of the academic year.

**Mathematics Courses**

- Discrete Mathematics: Calculus and Vectors: The Study of Motion and Change Computation, Order, and Logic;
- Advanced Topics in Maths
- Maths for the Real World
- Tutorials

**English Courses**

- Academic English: A Critical Thinking and Interdisciplinary Approach
- Academic Writing: Research, Fiction and Non-Fiction
- Academic, Scientific and Business Writing
- Writing tutorials
Each week, you will spend 20 hours in English instruction, 4 hours in mathematics instruction, 3 hours in science class and 3 hours in a science laboratory. You will also participate in 4 to 6 hours of experiential mathematics and science exercises and 4 to 6 hours in tutorials. In Semester 3, you will spend 40 hours in discipline-based explorations in your chosen area of study.

The curriculum for UCA's Preparatory Programme was designed in partnership with Seneca College, Canada. All Preparatory Programme faculty received their teaching certification from internationally recognised institutions, and have a Master's degree and/or significant years of relevant teaching experience.

### Science Courses
- The Scientific Method: Water, Earth, Fire and Air
- Scientific Inquiry: Natural and Built Environments
- Advanced Topics in Science
- Science Lab Courses
- Science for the Real World
- Laboratory tutorials

### Discipline-based courses
- Understanding the Basic Feasibility of Running your own Business (Economics);
- Identifying the Practical Implications of Climate Change in Mountains (Earth and Environmental Science);
- Introduction to Programming (Computer Science);
- Photography (Communications and Media).
General Education in Liberal Arts: Learning about Yourself & the World Around You

Many universities in Asia are introducing liberal arts, but most universities in Central Asia continue to offer a technical, single discipline education. **UCA wants you to have more.**

While our majors are focused on building your knowledge and skills for in demand disciplines, we also provide you with a general education in liberal arts education emphasizing collaboration, creativity and communication skills.

UCA’s general education liberal arts approach is designed to help students develop critical thinking skills. UCA’s general education curriculum is holistic and grounded in the Central Asian context. It allows students to:

- Improve presentation skills and develop strong writing skills
- Understand research and appreciate how to gain knowledge of the universe, society, and of yourself
- Become more familiar with a variety of subject areas in the humanities, science and maths, and their practical value in everyday life
• Develop a cosmopolitan understanding of the world around you
• Address some of the more challenging issues facing the region

Courses will introduce you to information and research methods across disciplines. Your faculty will push you to think beyond the facts to analyse and evaluate information.

Internships, case studies, collaborative research and hands on projects will give you the chance to apply your ideas to real world situations and challenges.

Classroom sessions will help improve your English and allow for debate, discussion and group work. You will learn from your fellow students and present your own original ideas.
Should You Apply to UCA?

UCA believes that a university education is about more than attending class and completing assignments. We want to offer you something different: a fully immersive, residential learning experience in an environment that welcomes intellectual curiosity, a passion for learning and leadership. At UCA, learning begins when you wake and only pauses when you go to sleep.
Committed & Qualified Faculty

- UCA’s undergraduate programmes will be delivered by Central Asian and international faculty
- Central Asian faculty will come from Tajikistan, Kyrgyz Republic and Kazakhstan
- International and visiting faculty will come from countries such as Canada, China, Egypt, Europe, India, Iran, Korea, Russia, Turkey, and the United States of America
- Your core and discipline-based faculty will have PhDs from recognised universities around the world
- Faculty will be committed to teaching and to building your knowledge and skills
- Faculty will be engaged in research relevant to Central Asia and the world
- UCA’s faculty will be accessible members of the campus community, as mentors, counsellors and advisors
Are you interested in technology and being part of an emerging regional industry? Do you see solutions through technology? Are you interested in building technical and leadership skills? Do you want access to state of the art technology? If so, UCA’s Computer Science programme is for you.
Information and communications technology is the economy’s fastest growing sector globally and regionally. Specialists in these fields are in high demand.

UCA’s Computer Science programme will not only develop you into a stellar programmer, but it will equip you to be part of a new generation of knowledgeable and skilled information technology (IT) entrepreneurs and professionals ready to develop infrastructure and generate opportunities in Central Asia.

You will be exposed to the latest technologies and international innovations in UCA’s state of the art computer laboratories and through internship opportunities. UCA’s Computer Science curriculum is being developed in partnership with world renowned universities and will reflect international standards and curriculum guidelines set by the Institute for Electrical and Electronics Engineers and the Association for Computing Machinery. Supplemented by courses focused on entrepreneurship, it also equips graduates to generate opportunities in Central Asia.

UCA’s Computer Science students will leave the programme as trained IT professionals with strong programming, project management, technical support and data management skills. Graduates will be prepared to create growth for Central Asian companies and help preserve and promote Central Asian culture through technology.

### Courses*

<table>
<thead>
<tr>
<th>Mandatory Courses</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fundamentals of Programming</td>
<td>Business System Analysis, Design and Implementation</td>
</tr>
<tr>
<td>Introduction to Computer Systems</td>
<td>Programming Verification and Testing</td>
</tr>
<tr>
<td>Data Structures and Algorithms</td>
<td>Distributed Systems</td>
</tr>
<tr>
<td>Database Applications</td>
<td>Formal Languages, Automata, Computability</td>
</tr>
<tr>
<td>Computer Networks</td>
<td>Designing Human Centred Systems</td>
</tr>
<tr>
<td>Discrete Mathematics</td>
<td>Introduction to Artificial Intelligence</td>
</tr>
<tr>
<td>Foundations of Software Engineering</td>
<td>Computer Graphics</td>
</tr>
<tr>
<td>Linear Algebra and Matrices</td>
<td>Compiler Design</td>
</tr>
<tr>
<td>The Web and Internet Technologies</td>
<td>Parallel Architecture and Programming</td>
</tr>
<tr>
<td>Operating Systems and System Programming</td>
<td>Information and Communications Technologies for Development</td>
</tr>
<tr>
<td></td>
<td>Image Processing and Computer Vision</td>
</tr>
</tbody>
</table>

* Subject to change. Students are required to complete all mandatory courses and choose approximately five out of 11 electives.
Are you a natural storyteller? Do you like to make things happen through social and other media? Do you see the potential to strengthen the media in Central Asia? Do you want to change the way Central Asia is covered in the media? If so, UCA’s Communications and Media programme is for you.
UCA’s Communications and Media programme offers a unique integrated approach that includes communications theory, media studies, journalism and applied media. The programme mirrors current trends in the study and practice of media communications.

You will be equipped with a strong foundation in both theory and practical skills desired by media industries, including journalism, public relations, advertising, marketing communications, multimedia design, media production, media law and management.

You will acquire skills in writing and critical thinking, as well as knowledge in media law, ethics and the political, economic, cultural and social character of Central Asian societies.

You will be exposed to high level production skills, including those that will help you leverage low cost mobile and computer technology to produce high quality video, sound and visual material. This will help students build a portfolio to use as a calling card when pursuing employment opportunities.

**Courses**

<table>
<thead>
<tr>
<th>Mandatory Courses</th>
<th>Electives***</th>
</tr>
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<tbody>
<tr>
<td>English Writing for Media**</td>
<td>Writing Courses</td>
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<tr>
<td>Russian Writing for Media**</td>
<td>Media Writing Course Kyrgyz**</td>
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<tr>
<td>Media Production – TV</td>
<td>Media Writing Course Kazakh**</td>
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<tr>
<td>Media Production – Radio</td>
<td>Media Writing Course Tajik*</td>
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<tr>
<td>Media Production – Print</td>
<td>Media Labs</td>
</tr>
<tr>
<td>Digital and Social Media</td>
<td>Media Lab I and II – Print</td>
</tr>
<tr>
<td>Structures and Economies of Media</td>
<td>Media Lab I and II – Radio</td>
</tr>
<tr>
<td>Organisations</td>
<td>Media Lab I and II – TV</td>
</tr>
<tr>
<td>Audience in Communications and Media</td>
<td>Media Lab I and II – Digital</td>
</tr>
<tr>
<td>Communications in the Central Asian Context</td>
<td>Specialised Courses</td>
</tr>
<tr>
<td>Communications and Media Law and Ethics</td>
<td>Visual Communications</td>
</tr>
</tbody>
</table>

* Subject to change. Students are required to complete approximately 14 of the 21 courses.
** Year-long courses
*** Students can choose from one writing, media lab and two specialised courses
Are you passionate about the environment? Do you see opportunities to improve environmental practices? Are you interested in a career in the development and business of the region’s extractive industries? Do you enjoy applying scientific concepts to real world problems? If so, UCA’s Earth and Environmental Sciences programme is for you.
UCA's cross disciplinary Earth and Environmental Sciences programme integrates the study of socio-cultural, ecological and geological systems to create informed and engaged leaders and scholars. The programme draws on the vast diversity of life experiences, ecological zones and cultures in Central Asia's mountainous regions and addresses complex regional and global problems such as climate change, poverty, environmental degradation, intolerance and food and energy insecurity.

The Earth and Environmental Sciences programme is being developed in partnership with world renowned universities. The curriculum delivers a strong foundation in Earth and Environmental Sciences through the study of natural science, social science and the humanities. It will also foster the development of critical professional and research skills and provide opportunities for you to undertake research in your own specialised areas of interest. Earth and Environmental Sciences graduates will gain experience and qualifications required by corporations working in renewable energy, mining, and fossil fuels, as well as in the academic and public sector on environmental policy, risk assessment and disaster prevention, and water resource management.

Our campuses, located in mountain communities, provide unique learning landscapes. You will have access to the University’s Mountain Societies Research Institute, which leads UCA’s Learning Landscapes Initiative and offers a range of resources, including UCA’s geographic information systems (GIS) laboratory and access to an international network of researchers.

Courses*

<table>
<thead>
<tr>
<th>Mandatory Courses</th>
<th>Electives (Choose 9)</th>
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<tbody>
<tr>
<td>Science, Impact, Complexity of Climate Change</td>
<td>General</td>
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<tr>
<td>Introduction to Geology &amp; Earth Processes</td>
<td>Glaciology</td>
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<tr>
<td>Water Resource Management</td>
<td>Introduction to GIS</td>
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<tr>
<td>Environmental Ethics</td>
<td>Remote Sensing</td>
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<tr>
<td>Mixed Research Methods</td>
<td>Geosciences Specialisation</td>
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<tr>
<td>Ways of Knowing (Human Ecology)</td>
<td>Science, Impact, Complexity of Climate Change</td>
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<td></td>
<td>Introduction to Geology &amp; Earth Processes</td>
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<td>Ways of Knowing (Human Ecology)</td>
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<td>Natural Hazards &amp; Risk Management</td>
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<td>Environmental Sciences Specialisation</td>
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<td>Ecotoxicology</td>
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<td>Environmental Management Policy</td>
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<td>Conservation of Biodiversity</td>
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<td>Environmental Impact &amp; Risk Assessments</td>
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<td>Sustainable Land Management</td>
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<td>International Environmental Law</td>
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<tr>
<td></td>
<td>Mountain Tourism</td>
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<td>Advanced Ecology</td>
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</table>

* Subject to change. Students are required to complete all mandatory courses and choose approximately 9 out of 19 electives.
Are you interested in becoming an economically impactful entrepreneur? Are you interested in contributing to Central Asia’s economic development? Are you keen to build strong institutions and promote sound economic policies? Are you concerned with how Central Asia’s economies fit into the global economy? If so, UCA’s Economics programme is for you.
Economics, BA

UCA aims to train economists who are strategic, analytic thinkers and can serve as effective policy makers in trade and foreign direct investment. The programme will address both global economic concepts and processes and Central Asian emerging economies and opportunities. It will equip you to lead regional policy making to generate economic reforms and contribute to sound public policy and private sector growth. UCA’s economics programme is unique in offering a specialisation in entrepreneurial economics.

UCA’s programme is market based, providing students with a versatile set of analytical and practical skills that will lead to jobs in banking, international trade, personal and corporate finance, and policy making.

You will have access to the University’s Institute of Public Administration and Policy, which fosters rigorous inquiry into public policy related to socio-economic development in Central Asia and has strong partnerships with government ministries across the region. Through internships and hands on experience, UCA’s Economics Programme enables you to study and experience the link between entrepreneurship and economic development.

Courses*

<table>
<thead>
<tr>
<th>Mandatory Courses</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Statistics</td>
<td>Agricultural Policy, Trade and Development</td>
</tr>
<tr>
<td>Economics</td>
<td>Economics of Labor and Migration</td>
</tr>
<tr>
<td>Intermediate Macroeconomics</td>
<td>Energy and Natural Resource Economics</td>
</tr>
<tr>
<td>Intermediate Microeconomics</td>
<td>Advanced Trade Theory and Policy</td>
</tr>
<tr>
<td>Econometrics I</td>
<td>Advanced Microeconomics</td>
</tr>
<tr>
<td>Econometrics II</td>
<td>Advanced Macroeconomics</td>
</tr>
<tr>
<td>International Economics: Trade Theory and Policy</td>
<td>Economics of Entrepreneurship</td>
</tr>
<tr>
<td>International Monetary Economics</td>
<td>Social Entrepreneurship and Economic Development</td>
</tr>
<tr>
<td>Economic History and History of Economic Thought</td>
<td>Financing your Small Venture: Economics of Lending</td>
</tr>
<tr>
<td>Regional Economics</td>
<td>Managing Entrepreneurship and Innovation</td>
</tr>
<tr>
<td>Role of International Organisations</td>
<td></td>
</tr>
</tbody>
</table>

* Subject to change.

Dr Roman Mogilevskii, Associate Director, Institute of Public Policy and Administration, UCA
Do you enjoy problem solving and making things work? Or work better? Do you see possibilities in applying scientific concepts to real world problems? Are you open to exploring various solutions to big problems? Do you enjoy creating things? If so, UCA’s Engineering Sciences programme is for you.
Engineering Sciences, BSc

UCAs Engineering Sciences programme will produce well rounded, creative engineers with both the applied technical knowledge and the necessary entrepreneurial spirit to inspire and lead economic and social development in Central Asia. Four key principles are at the heart of this programme: leadership, interdisciplinary thinking, an entrepreneurial spirit and design capabilities.

The Engineering Sciences curriculum delivers an innovative approach to integrated engineering with specialisations available in chemical and process engineering or civil engineering, with an emphasis on infrastructure development. The programme provides you with an interdisciplinary base to develop your long term leadership potential as well as the skills you need to perform in jobs immediately after graduating.

You can pursue specialisations in chemical and process engineering or civil engineering with an emphasis on infrastructure development. Classroom learning is strengthened by professional practice, internships, seminars and labs work. The curriculum is being developed in partnership with world renowned universities in this field.

### Courses*

<table>
<thead>
<tr>
<th>Mandatory Courses</th>
<th>Electives (Choose 6 courses within specialisation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated Component</td>
<td>Process / Chemical Engineering (Choose 6)</td>
</tr>
<tr>
<td>Calculus III</td>
<td>Mass and energy balances</td>
</tr>
<tr>
<td>Mechanics</td>
<td>Chemical Reaction Engineering</td>
</tr>
<tr>
<td>Computer Science for Engineering</td>
<td>Separation Processes</td>
</tr>
<tr>
<td>Numerical Methods and Applications</td>
<td>Heat Transfer</td>
</tr>
<tr>
<td>Energy and Power Engineering</td>
<td>Process Control</td>
</tr>
<tr>
<td>Thermodynamics</td>
<td>Minerals Processing</td>
</tr>
<tr>
<td>Fluid Mechanics</td>
<td>Biotechnology</td>
</tr>
<tr>
<td>Circuit Analysis</td>
<td>Process Synthesis and Design</td>
</tr>
<tr>
<td>Statics</td>
<td>Civil Engineering (Choose 6)</td>
</tr>
<tr>
<td>Engineering Dynamics</td>
<td>Surveying</td>
</tr>
<tr>
<td>Structural Theory and Design</td>
<td>Geology &amp; Rock Mechanics</td>
</tr>
<tr>
<td>Materials in Design</td>
<td>Construction Materials</td>
</tr>
<tr>
<td>Professional Practice Component</td>
<td>Soil &amp; Geotechnical Engineering</td>
</tr>
<tr>
<td>Introduction to Systems Engineering</td>
<td>Foundations, Structures &amp; Structural Design</td>
</tr>
<tr>
<td>Business and Entrepreneurship</td>
<td>Transportation, Roads, &amp; Pavement Design</td>
</tr>
<tr>
<td>Project Engineering and Management</td>
<td>Introduction to Environmental Engineering</td>
</tr>
<tr>
<td>Sustainable Design &amp; Lifecycle Costing</td>
<td>Engineering Hydrology</td>
</tr>
<tr>
<td>Engineering Economics</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Law, Professional Practice &amp; Ethics</td>
<td>Electromagnetic Fields and Waves</td>
</tr>
<tr>
<td>Design Project A / B</td>
<td>Discrete Mathematics and Probability*</td>
</tr>
</tbody>
</table>

* Subject to change.
Do you want to become a leader in the world of business? Do you already have ideas for your own business? Do you want to learn skills to enhance economic development in Central Asia? If so, UCA’s Business and Management programme is for you.
UCA’s Business and Management programme is designed to equip you with the skills you need to work in and establish business ventures in the new Central Asian economy, while ensuring you are globally competitive.

The comprehensive curriculum covers the requirements for a general management degree, while offering specialisations in finance and accounting, strategic leadership, entrepreneurship, branding and marketing and operations management. The programme also offers multiple opportunities for applied and practical learning, utilising business simulations and the Harvard Case method applied to the Central Asian context. UCA’s Business and Management programme also offers a wide variety of internship opportunities.

UCA’s Business and Management programme will enable you to build both theoretical knowledge and a practical understanding of business in the region. With UCA’s internship opportunities and learning methods, students will be exposed to passive and active insights into the practice of management. The curriculum is being developed in partnership with world renowned universities in this field.

### Courses*

<table>
<thead>
<tr>
<th><strong>Mandatory Courses</strong></th>
<th><strong>Electives</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership / Organisational Behavior</td>
<td>International Business with a Focus on Emerging Markets especially Central Asia</td>
</tr>
<tr>
<td>Financial Accounting</td>
<td>Strategy Execution / Implementation</td>
</tr>
<tr>
<td>Managerial Accounting</td>
<td>Advanced Finance</td>
</tr>
<tr>
<td>Finance</td>
<td>Commercial Banking, Private Equity, and Investment Banking</td>
</tr>
<tr>
<td>Management Science / Production and Operations</td>
<td>Valuation</td>
</tr>
<tr>
<td>Marketing</td>
<td>International Finance</td>
</tr>
<tr>
<td>Managing Information Systems</td>
<td>Corporate Financial Reporting</td>
</tr>
<tr>
<td>Global Political and Economic Environment Business</td>
<td>Branding and Promotion</td>
</tr>
<tr>
<td>Organizational Theory – The Role of Structures and Processes</td>
<td>Physical and Online Retailing</td>
</tr>
<tr>
<td>Strategy I</td>
<td>Global Marketing</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td></td>
<td>Project Management</td>
</tr>
<tr>
<td></td>
<td>Production and Supply Chain Management</td>
</tr>
<tr>
<td></td>
<td>Process Mapping and Process Improvement</td>
</tr>
<tr>
<td></td>
<td>Design, Development and Implementation of Information Systems</td>
</tr>
</tbody>
</table>

* Subject to change.
Ready to stand out?
UCA’s undergraduate programme is designed just for you!

Engineering Sciences, BS

Business & Management, BA

Economics, BA
Career Opportunities

*Trying to decide on a career? Want to ensure you have choices and are well-prepared? Ready to stand out? UCA’s integrated majors and minors are designed just for you!*

Your minor complements your major area of study, enriching your skill set and knowledge base, making you a well-rounded candidate for any future employer. For example, if you are a Computer Science major and you minor in Development Studies, you can work in international development, offering both IT skills and an understanding of development in Central Asia. If you major in Communications and Media and minor in Central Asian studies, you will be armed with the technical communications and media skills you need and a background in Central Asian cultures and history and important policy frameworks.
Undergraduate Minors

In addition to your major, you will select one secondary academic focus, or minor. The minor will complement your major and make your education more comprehensive, adaptable and relevant.

Students can pursue a minor in these areas or choose to minor in any one of the six major areas of study (Computer Science, Communications and Media, Earth and Environmental Science, Economics, Business and Management, or Engineering Sciences). For example, a student studying in Naryn, Kyrgyz Republic can pursue minors offered in Khorog, Tajikistan or Tekeli, Kazakhstan and vice versa.

Central Asian Studies

Offered in Naryn, this minor will provide you with a pluralistic perspective of the region’s histories and cultures, and encourage critical thinking on issues related to Central Asian politics, culture, economy and society. Taught by specialists in each field, it aims to provide the foundations for rigorous inquiry into critical issues confronting the countries of Central Asia within the context of new global realities. The minor is informed by the work of UCA’s Cultural Heritage and Humanities Unit.

Course examples
- Central Asia’s Historical Journey to Independence
- Regional Politics since Independence
- Traditional Cultures and Modernity
- Central Asian Art and Media

Development Studies

Offered in Khorog, this minor will equip you with the analytical and technical skills necessary to work in the field of international development. It builds on unique assets, including the experience of the Aga Khan Development Network (AKDN) – the world’s largest private development agency – and its partners; and UCA’s undergraduate majors and research institutes.

Course examples
- Development Economics
- Development Studies Research Methods
- Programme Monitoring and Evaluation
- Project Planning and Management
- Role of International Organisations

Globalisation Studies

Offered in Tekeli, this minor will help you explore the implications and future trends in economic, environmental, socio-political and technological dimensions of globalisation.

Course examples
- Global Business and Emerging Markets
- International Environmental Law
- Globalisation and Technology
- Regional Politics since Independence
- Traditional Cultures and Modernity
How to Apply?

Key dates
(subject to change*)

Further information on how to apply in person or online, with the downloadable application form is available at:
www.ucentralasia.org/admissions

18 March 2016: Applicants must submit a completed UCA Application Form with official high school mark sheets for Grade 10 and the first two quarters of Grade 11, a copy of a government-issued photo ID or passport, a photograph taken in the last 3 months and receipt of the non-refundable application fee of $15 USD.

24 March 2016: Applicants are notified of their application number, testing time, and the location of where they will sit for the UCA Admissions Exam.

3 April 2016: The UCA Admissions Exam is administered in Tajikistan, Kyrgyz Republic and Kazakhstan.

Key dates for shortlisted applicants

29 April 2016: Shortlisted candidates to submit supporting documents:
(1) personal statement;
(2) two letters of recommendation; (3) evidence of awards received; and (4) financial aid application.

June 2016: Naryn campus tours for prospective students.

Key dates for accepted applicants

June 2016: Accepted applicants informed and financial aid decisions are provided.

29 August 2016: Student orientation and the Academic Year begins.

* Visit our website for updates:
www.ucentralasia.org/admissions
Tuition & Financial Aid

A university education is one of the most important investments that a student and family can make. A degree from a quality university can significantly influence your future earning potential.

The University of Central Asia understands that a world-class education is costly and is committed to sharing this cost with every UCA student. One of UCA’s founding principles as a private, not-for-profit institution is that no admitted student will be denied an education because of inability to pay.

In this spirit, student tuition represents a fraction of the total education cost: nearly 80 per cent of the per-student cost is subsidised by UCA. UCA’s tuition is significantly lower than the cost of comparable standards of higher education in neighbouring China, Russia and Turkey, and in comparison to the highest quality universities in Tajikistan, the Kyrgyz Republic and Kazakhstan.

UCA’s Commitment to Making Quality Education Affordable

- UCA’s fees are comprehensive and payable in your national currency equivalent
- Tuition and Fees will not increase (in US dollar terms) over your five years at UCA
- UCA will support students with needs-based grants, merit-based scholarships and interest-free loans

Depending on the evaluation of need and merit, UCA may fund up to 90% of the cost of education through grants, scholarships and interest-free loans. Confident that its graduates will find quality employment, UCA student loans will have highly favourable repayment terms.

Your financial need will NOT affect your ability to get accepted to UCA. Admission is based solely on merit.
Will my financial situation advantage or disadvantage me in the application process?

Admission to UCA will be merit-based. UCA is committed to admitting the best and brightest students from both urban and rural areas of Central Asia, regardless of their economic status. No student will be denied admission to UCA on financial grounds.

Once admitted, UCA will devote dedicated resources to each individual student to ensure that education is accessible to all, regardless of ability to pay.

UCA will provide unique scholarship and financial aid options subsiding up to 90 per cent of tuition based on demonstrated financial need.

How does a UCA student loan work?

- Interest free loans will be offered in national currency
- There will be an annual administration fee of five per cent
- Students will have a two year grace period after graduation to begin repayment
- Students have 10 years following this two year grace period to repay their loan

When and how do I apply for financial aid?

Financial Aid decisions are made by a committee and not any one individual. Financial aid applications will be available to all shortlisted candidates, and students will apply annually for assistance.