



UNIVERSITY OF
CALGARY

Science 2+2 & 3+2
Engineering 3+2
Arts 2+2
Business 2+2

International Collaborative Programs

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Your future is bright

The **University of Calgary** is a community of 30,000+ exceptional students like you, who come from all over the world to learn and grow. Our outstanding academic environment, world-class facilities and extensive student services will help you grow and succeed academically and personally.

Your place to thrive. Located on 526 park-like acres, our main campus is minutes from downtown Calgary and just an hour's drive away from the Rocky Mountains. Calgary is a welcoming, safe and diverse city you will love.

UCalgary is...

Within the Top 200
universities worldwide
(Academic Ranking of World Universities,
2017 Shanghai Rankings)

#6 research-intensive
university in Canada
(2017 ReSearch Infosource Rankings)

A top university
in Canada and in the world

Within the **Top 90**
in the 2018 QS Graduate
Employability Rankings

Canadian universities are among **the best** in the **world**

Calgary is the **sunniest city** in Canada — **333+** days a year

Canadian **tuition fees** and **living costs** are **lower than** in the **US, UK** and **Australia**

Calgary is the **#5 most liveable city** in the **world**



Earn a second degree

Maximize your potential in Canada's energy and engineering capital

“Studying at one of Canada’s best universities enables you to learn beside world-class faculty and researchers, enjoy specialized programs, practical training and top-quality research facilities. You gain international exposure while you immerse yourself in our talented international student community.”

Through the 2+2 and 3+2 Science, Engineering, Arts and Business programs you study the first two or three years in your home country and the last two years here. You earn a second degree from a leading Canadian university in just two years, experience life in Canada and learn to become more competitive in the international job market. It’s a unique experience that will transform your life. I warmly invite you to join us.”

— Dr. Janaka Ruwanpura, Vice-Provost (International)

“We offer students innovative programs, hands-on research opportunities, access to cutting-edge laboratories, and a stimulating environment to fuel their curiosity. Studying with us will give you a world-class learning experience.”

— Dr. Lesley Rigg, Dean, Faculty of Science

“We offer extensive student supports, a diverse and welcoming community, new facilities and courses taught by research leaders dedicated to helping students succeed. Join us!”

— Dr. Bill Rosehart, Dean, Schulich School of Engineering



14 faculties,
250 programs,
173,000 alumni
in **150+** countries

QS 5 stars rating
for international universities
(2018 QS Rankings)

**2018 QS World
Rankings Top 150**
for chemical and civil engineering,
geography and psychology

Canada's top six research- intensive university

“Studying here is not only a language development process, but also an improvement of my academic skills. I chose the University of Calgary because of its leadership in oil and gas and the opportunity to develop a solid understanding of geophysics and find my true research interests. I got high marks, made the Dean's list and received a scholarship, which was inspiring and helpful.”

— Jingchuan W., 2+2 Science, Geophysics, from
China University of Petroleum East China

“Learning at Schulich isn't just classroom-based. It extends to enhancing student understanding through various extra-curricular activities and hands-on lab work. It's a challenging but very rewarding experience to be able to watch myself grow as a future engineer and as a person.”

— Samara M., student, Schulich School of Engineering.

World-class research

Experiential learning at the Faculty of Science, Schulich School of Engineering, Faculty of Arts and Haskayne School of Business



An **arts degree** is **one** of the **most versatile degrees** you can earn. You will be inspired and challenged to discover solutions to big societal problems such as climate change, homelessness or the global economy. Join the **46,000 arts alumni** who are doing amazing things around the world

Leading-edge research: new distance record set as researchers teleport particle of **light** six kilometres

The new, **\$174-million Canadian Natural Resources Limited Engineering Complex** offers state-of-the-art labs, classrooms and learning space to engineering students



Energy excellence: Canadian government awards UCalgary **\$75 million** for a **Global Research Initiative** in **Sustainable Low Carbon Unconventional Resources**

Learn alongside some of the **most creative** and **interdisciplinary** civil engineering researchers in Canada. The **civil engineering program** is among the **top 100** in the **world** and among the top five in Canada (2014 QS World Rankings)

UCalgary is home to **international leaders** and **researchers** in space science, geomatics, communications and satellite systems, involved in 20+ space missions. Our Chancellor is the former Canadian astronaut Dr. Robert Thirsk



Championing entrepreneurship: the launch of the **Hunter Hub** for **Entrepreneurial Thinking** and of the Creative Destruction Lab — Rockies

\$380.4 million in **sponsored research funding** in 2016-2017

Why choose a 2+2 and 3+2 program?



Top Canadian university

Canada's top six research-intensive university

Learn from the best

Learn alongside world reputed faculty and researchers

Earn two degrees

Earn two bachelor's degrees (2+2) or one bachelor's degree and one master's degree (3+2)

Become competitive in the job market

Study abroad makes you more competitive in the international job market

Value for money

You study two years internationally instead of four (2+2)

Student services to help you succeed

Learn more at ucalgary.ca/iss

Live in one of Canada's greatest cities

Calgary is the #5 most liveable city in the world

(2016 Global Liveability Ranking)

International work experience

You may be eligible to work in Canada for up to three years after graduation (conditions apply)



Ensure you meet the minimum program requirements before you apply

- a. **Academic standing:** a cumulative grade point average of 3.00 on a 4.00 scale or equivalent (80%) on all transfer subjects, calculated from the most recent 30 credit units completed at your university, including pre-requisites as determined by the University of Calgary.
- b. **Minimum English language proficiency requirements:** a TOEFL score of at least 86 (ibt), IELTS score of 6.5 or an equivalent score for other accepted tests. If you don't meet these requirements check out our International Foundations (IFP) program at werkund.ucalgary.ca/ifp to see if we have an IFP program option for your specialty.
- c. **Review your tuition and fees as you are responsible for all costs including:** tuition, travel, room and board, student fees, health, etc.



How to apply

1. **Choose a program. Sign up at choose.ucalgary.ca to connect with an admission counsellor about program options and the application process.** Program availability may vary among partner universities. Please consult with your home university and view program information at ucalgary.ca/uci/collaborative-programs.
2. **Inform your home university you want to apply.** They will nominate prospective candidates. Only nominated candidates may apply.
3. **Apply online.** Once nominated, your home university will provide you with a link to the online application. Submit the application and pay the application fee by March 1, 2018.
4. **Submit your supporting documents by March 15, 2018.** Ensure you forward official transcripts. If your transcripts are not in English you must send a certified English translation along with the original document. You may also need to provide proof of language proficiency (if applicable).

Don't forget to apply for residence by May 1, 2018!



Important dates and deadlines

October 1

Undergraduate application is open

March 1

Deadline to apply online

March 15

Deadline to submit transcripts and documents

May 1

Deadline to apply for residence



UCalgary's 2+2 and 3+2 programs

Science

2+2

3+2

- Geology
- Geophysics
- Astrophysics
- Physics
- Actuarial Science
- Computer Science
- Mathematics
- Biological Sciences
- Plant Biology
- Chemistry

- Geology
- Geophysics
- Mathematics
- Statistics

Engineering

3+2

- Civil Engineering
- Oil and Gas

Arts

2+2

- Geography
- Psychology

Business

2+2

- Business Technology Management
- Finance
- International Business
- Marketing
- Supply Chain Management

A scientist in a white lab coat and safety glasses is working in a laboratory. He is focused on a complex piece of equipment with many tubes and components. The background is slightly blurred, showing other lab equipment. An orange semi-circular graphic is overlaid on the right side of the image, containing white text.

2+2 and 3+2 programs offered by faculty

Faculty of Science

\$53 million sponsored research funding in 2016-17.
34 research chairs,

The Faculty of Science offers innovative programs, hands-on research opportunities, access to world-class laboratories and stimulating environments to spark your curiosity.

We want you to have a world-class experience. Each day, our instruction teams will teach, mentor, and inspire you to reach your full potential. You'll have countless opportunities to explore the world, whether in a lab, a field or up a mountain and get hands-on experience in your chosen field.

The benefits you'll enjoy: learning from outstanding faculty members, many of whom are world leaders in their fields, and getting inspired by the discovery and development of new technologies happening within our faculty.

“I was a girl who never dared to speak in front of a crowd. My supervisor asked me to present at GeoConvention and this has helped me to become more confident and step forward when an opportunity arises. I'm now in another country, embracing a different culture, meeting new people, learning great things and expanding my world view thanks to this program.”

— Shuyu Z., Geology, 3+2 student from China University of Petroleum (East China)

Learn more: ucalgary.ca/science

Programs

2+2 and 3+2 Geology

What you will learn: Geologists study the history, composition, and physical aspects of our planet. Much of your learning will occur in class, during tutorials and in laboratories. You may also gain hands-on experience conducting research at field schools within both Canada and the United States.

Career opportunities: Global career opportunities in oil and gas, engineering firms, the research sector and more.

Sample courses you may take*: Physical Hydrogeology, Siliciclastic Sedimentology, Contaminant Hydrogeology, Advanced Mineralogy, Ore Deposits, Structural Geology, Global Tectonics, Sequence Stratigraphy, Petroleum Geology and Basin Analysis.

2+2 and 3+2 Geophysics

What you will learn: Geophysics is the application of the laws and techniques of physics to uncover knowledge about the earth's dynamic processes and subsurface structure. Much of your learning will occur while actively working on problems in class, during tutorials, and in the laboratory.

Career opportunities: Global career opportunities in environmental assessment, consulting, oil and gas and more.

Sample courses you may take*: Mining Geophysics, Time Series Analysis and 1D Data Processing, Gravity and Magnetics, Seismic Theory and Methods, Multidimensional Data Analysis and Processing.

2+2 Astrophysics

What you will learn: you will study the fundamental questions about the universe and all of the objects in it — planets, stars, interstellar dust, and galaxies to name a few! You develop the experimental, observational, mathematical, computational and logical skills to uncover the mysteries of the universe.

Career opportunities: Global career opportunities in medical physics, geophysics, nuclear energy and more.

Sample courses you may take*: Planetary Astrophysics, Interstellar Medium, High Energy Astrophysics and Cosmology, Stellar Structure and Evolution.

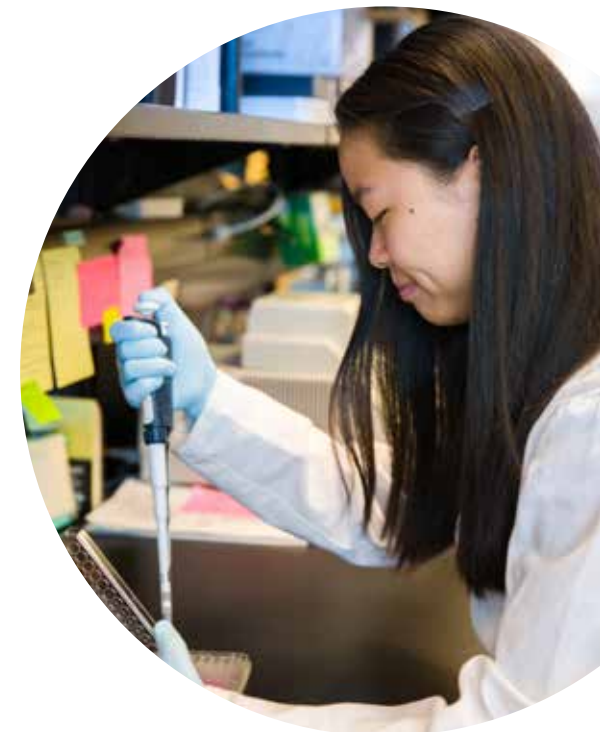
2+2 Physics

What you will learn: A physics major develops the experimental, observational, mathematical, computational and logistical skills to analyze and solve complex problems. Analyze physical situations and data, construct research problems, perform mathematical computations, and use experimental techniques and equipment.

Career opportunities: Global career opportunities in aerodynamics, technological design, medical physics and more.

Sample courses you may take*: Solid State Physics, Plasma Physics, Electromagnetic Theory, Optics and Quantum Mechanics.

*Courses offered vary between the 2+2 and 3+2 program options and also from year to year.



2+2 Biological Sciences

What you will learn: From biomolecules to the biosphere, the biological sciences consider life in all forms. As the most broadly based biological sciences program, this degree will provide you with a marketable set of transferrable skills upon graduation. Much of your learning will occur while working on problems in class, during tutorials, and in the laboratory.

Career opportunities: Career opportunities in environmental management and conservation, scientific research, biotechnology, agriculture, forestry and more.

Sample courses you may take*: Principles and Mechanism of Pharmacology, Cellular Mechanisms of Disease, Ecology of Populations, Principles of Aquaculture, Animal Physiology and Principles in Parasitism.

2+2 Plant Biology

What you will learn: Plant Biology is a challenging, dynamic, and investigative branch of biology. Much of your learning will occur while actively working on problems in class, during tutorials, and in the laboratory. This degree will provide you with an essential foundation in the physiology, anatomy, morphology, molecular biology, biochemistry, and development of plants.

Career opportunities: Global career opportunities in plant biotechnology, agriculture, forestry, the pharmaceutical industry and more.

Sample courses you may take*: Plant Biotechnology, Plant Physiology, Taxonomy of Seed Plants, Plant Cell and Developmental Biology, Medicinal Plant Biochemistry and Conservation Biology.

2+2 Computer Science

What you will learn: Computer Science allows you to combine creativity with skills in communication, mathematics, and logic. This degree will provide you with the skills to quickly adjust to the rapidly changing computer culture over the course of your career without needing continual retraining.

Career opportunities: Career opportunities in the public, non-profit and business areas.

Sample courses you may take*: Human-Computer Interaction, Database Management, Design and Analysis of Algorithms, Quantum Computation, Network Systems Security, Image Analysis and Computer Vision, Emergent Computing, Games Programming and Introduction to Cryptography.

*Courses offered vary between the 2+2 and 3+2 program options and also from year to year.



2+2 Actuarial Science

What you will learn: Actuarial Science is concerned with the construction of models and solutions for financial, business, and societal problems involving uncertain future events. By exploring the complicated world of financial risk, this degree will equip you with the fundamental and practical tools to assess and forecast risk to make sound financial decisions.

Career opportunities: Global career opportunities in the insurance industry, employee benefits and pensions, management consulting and more.

Sample courses you may take*: Actuarial Models, Quantitative Financial Risk Management, Mathematics of Demography and Life Contingencies.

2+2 and 3+2 Mathematics

What you will learn: Mathematics and statistics are universal languages that can help answer all kinds of questions. How is financial risk calculated? How reliable is an image transmitted by a deep space probe? You will develop your critical thinking skills to appreciate and address these questions, or explore the rich complexities of the form and knowledge of mathematics itself.

Career opportunities: Global career opportunities in financial investments, computer animation and much more.

Sample courses you may take*: Complex Analysis, Algebraic Topology, Numerical Analysis, Computational Finance and Applied Multivariate Analysis.

3+2 Statistics

What you will learn: Statistics is the science of collecting, organizing, and interpreting numerical facts. The program focuses on the understanding of statistical reasoning and the application of statistics to real-world situations. Statisticians assist in the gathering information about the world around us and interpret that information in meaningful ways.

Career opportunities: Computer analyst, biomedical researcher, statistician, or even a cryptographer.

Sample courses you may take*: Mathematical Statistics, Linear Models and Their Applications, Biostatistics and Stochastic Processes.

2+2 Chemistry

What you will learn: As a central science, chemistry is closely connected with biology, math and physics. You'll gain experimental skills and a solid theoretical background. You will also develop valuable professional skills and the ability to independently design and conduct your own scientific research.

Career opportunities: Global career opportunities in the development of fuels, plastics, drugs, foods, new materials and other consumer products.

Sample courses you may take*: Industrial Chemistry, Advanced Organic Chemistry, Introduction to Atmospheric Chemistry, Advanced Instrumental Analysis and Physical Chemistry of Interfaces.

*Courses offered vary between the 2+2 and 3+2 program options and also from year to year.



Schulich School of Engineering

165 faculty members and **30 research chairs,**
\$30 million research funding annually.

A hub of entrepreneurship, innovation and engineering excellence, we are among the top engineering schools in Canada.

Collaborate with some of the leading engineering educators and researchers in the world. We support engineers as future leaders, we embrace diversity and equity in all its forms, and we understand the people, issues and systems they hope to help. Become a Schulich Engineer and find out how you can change the world.

The benefits you'll enjoy: a rich learning experience in Canada's engineering capital, world-class professors and researchers, 100,00+ sq. ft. of cutting edge labs and learning spaces, close ties to industry.

“I recommend the University of Calgary because it is a well-regarded university with good rankings, modern facilities and solid research and funding opportunities. The professors are always willing to help and I can really learn a lot here. I like Calgary, Canadian people are very nice and I feel safe here.”

— Heli G., 3+2 Engineering student from Xi'an Jiaotong University

Learn more: schulich.ucalgary.ca

Programs

3+2 Civil Engineering

What you will learn: In 2014, the QS World University Rankings named the Schulich School of Engineering among the top 100 civil engineering programs in the world and among the top 5 in Canada. From designing structures, helping remove contaminants from soil and optimizing transportation systems, to investigating biomedical applications through spine research, our graduates are prepared for a diverse range of meaningful careers.

Career opportunities: Civil engineer in public and private sectors, consulting industry, management or scientist.

Sample courses you may take*: Structural Engineering, Geotechnical Engineering, Bituminous Materials, Theory of Transport Demand Modelling, Biological Processes for Wastewater Treatment, Group Design Project and more.

3+2 Oil and Gas

What you will learn: The Schulich School of Engineering is internationally recognized for educational and research excellence in chemical and petroleum engineering. Oil and gas engineering involves the production of oil and gas in an economical and environmentally safe manner. Learn from global experts with industry partners and strong international research collaborations. Position yourself as a leader in today's competitive job market.

Career opportunities: Process Engineer, Petroleum Reservoir Engineer, Petroleum Production Engineer, Environmental Engineer, software development and/or documentation for chemical process/petroleum reservoir simulation software, chemical sales.

Sample courses you may take*: Applied Reservoir Engineering, Subsurface Production Operations, Reservoir Analysis and Description, Enhanced Oil Recovery, Economic Analysis of Petroleum Systems, Engineering Tools, Sustainability, Innovation and Entrepreneurship and Introduction to Project Management.

*Courses offered vary between the 2+2 and 3+2 program options and also from year to year.



Faculty of Arts

**8 Canada Research Chairs,
22 Fellows** of the **Royal Society of Canada.**

In the Faculty of Arts we strive to engage, inspire and discover. Our mission is to reflect on the world and our place in it through critical inquiry, creative practices and collaborative exploration.

Arts researchers are involved in a stunning variety of fields — from modern dance to experimental neuroscience, from medieval literature to remote sensing of Arctic sea ice. Our students, faculty and staff are critical thinkers, engaged global citizens, collaborative partners, bold leaders and innovators, and creative practitioners.

Learn beside nationally and internationally recognized professors and researchers and explore complex situations facing our society today in the largest faculty at the university. Join the 46,000 arts alumni doing amazing things around the world.

The benefits you'll enjoy: an experiential learning approach that inspires you to discover new ways of thinking, world-class research centres and great student services and clubs to help you thrive academically and personally.

“Geography offers a huge field of study. The program offers hands-on opportunities, field courses and small classes. A standout experience for me was doing NSERC (Natural Sciences and Engineering Research Council of Canada) research with professors. The quality of instruction and experience is very high — this is a great program to thrive in. It also allows you a broad spectrum of subjects to find your interests, which you can then pursue as you desire.”

— Taylor M., Geography student, Faculty of Arts

Learn more: arts.ucalgary.ca

Programs

2+2 Geography

What you will learn: Geography is an integrative discipline that explores the earth as a whole system. Geographers focus on places and spaces to understand the interrelated elements associated with environmental, economic, political, and cultural change, and to propose solutions to problems in these areas. During the course of your studies, you will develop skills in research, geospatial methods, logical and abstract reasoning, as well as in-depth knowledge of the different regions and cultures that make up our global community.

Career opportunities: Global career opportunities in the public service, non-profit sector, or the business world.

Sample courses you may take*: Geography of World Affairs, Introduction to Geospatial Methods, The Human Environment, Introduction to Cities, Weather and Climate, Global Water Resources, Introduction to Economics Geography, Population Geography, Biogeography and Conservation, Cartography and Geographic Visualization, Cities, Poverty and Development, Climate Change, and Introduction to Programming in Geographic Information Systems.

2+2 Psychology

What you will learn: Psychology students will gain a deeper understanding of the biological, cognitive, emotional, and social influences on the human experience. They learn to think critically and solve problems, conduct research and analyze data, and communicate effectively, as well as develop skills in information literacy, implementing ethical principles, and applying psychological knowledge and skills to personal, social, organizational, and societal problems.

Career opportunities: Global career opportunities in the public service, non-profit sector, or the business world.

Sample courses you may take*: Experimental Design and Quantitative Methods for Psychology, Industrial and Organization Psychology, Clinical Psychology, Social Psychology, Developmental Psychology, Psychology of Aging, Cognitive Psychology, Sensation and Perception, Brain and Behavior, Personality, Design and Analysis Psychological Research, Qualitative Inquiry in Psychology, Current Issues in Psychopathology, Behavior Modification, Drugs and Behavior, Behavioral Neuroscience, Human Neuropsychology, Leadership and Motivation, and Psychology and Law.

*Courses offered vary from year to year.



Haskayne School of Business

9 research centres, \$30-million in student awards and bursaries awarded annually.

The Haskayne School of Business is home to some of Canada's brightest and most accomplished minds. Haskayne prides itself on being a leader of knowledge and has established specialized centres to further prepare the next generation of leaders in key industries, entrepreneurship and innovation, advanced leadership, and sustainability.

Haskayne has approximately 3,600 students and an alumni network of over 24,000 across more than 80 countries. The faculty was one of the first business schools in Canada to be accredited by the Association to Advance Collegiate Schools of Business (AACSB) in 1985, a stamp of quality held by less than 5% of the world's 16,000 business programs.

University of Calgary is among the top 200 universities according to the 2017 Academic Ranking of World Universities.

The benefits you'll enjoy: great career prospects, award-winning professors and business leaders, co-op and mentorship programs, a dedicated Career Centre and the opportunity to build a great network of contacts.

“One of the classes I found interesting was international trade management. Producing an international business plan for a real company that could be implemented in the real world was an amazing experience. The information we were exposed to and how it all came together was extremely useful.”

— Nafilia P., former International Business student, Haskayne School of Business.

Learn more: haskayne.ucalgary.ca

Programs

2+2 International Business

What you will learn: International Business students focus on the cultural, political, economic and linguistic elements required to succeed in today's global market. This program will give you an introduction to international business, and offer you specialized international courses in functional areas (such as marketing and finance) and geographically focused courses for specific regions. You'll complete projects, presentations, group projects and various case studies.

Career opportunities: Global career opportunities in importing and exporting, business development, international relations and more.

Sample courses you may take*: International Marketing, International Business, International Strategic Management and International Energy Management.

2+2 Finance

What you will learn: Financial managers make decisions about pursuing uncertain investment opportunities and deciding how to finance these investments. You will develop your skills using spreadsheet and statistical software, as well as learn how to adapt basic financial principles to the changing business environment. You will complete live projects, presentations, group projects and various case studies.

Career opportunities: Global career opportunities in banking, securities, international finance and more.

Sample courses you may take*: Financial Management, Futures and Options, Mergers and Acquisitions, Management of Financial Institutions, Security Analysis and Investments, Trading and Market Data Management, International Finance.

*Courses offered vary from year to year.





2+2 Marketing

What you will learn: Marketers turn ideas into products, find the right price for products, get products to market, and communicate the benefits of products to consumers. You will learn about consumer behaviour, marketing research, new product development, distribution, pricing, and integrated marketing communications. You'll complete formal presentations, group projects and various case studies.

Career opportunities: Global career opportunities in management, marketing, business development and more.

Sample courses you may take*: Introduction to Marketing, Marketing Communications, Marketing Research, International Marketing, Product Management, Services Marketing and Strategic Marketing.

2+2 Business Technology Management

What you will learn: Management Information Systems examines the use, management, and impact of information technologies on individuals, organizations, industries, the economy and society. You'll combine industry knowledge, practical applications, and academic principles to examine new technologies and understand their impact on the business environment. You'll complete presentations, group projects and various case studies.

Career opportunities: Global career opportunities in marketing, finance, accounting, human resources and more.

Sample courses you may take*: Information Technology in Business, Data Management and Business Analytics, Enterprise Analysis, Issues in Business Technology Management and E-business.

*Courses offered vary from year to year.

2+2 Supply Chain Management

What you will learn: Supply chain management involves the management of materials and information across the entire supply chain. This program covers diverse topics such as service operations management, negotiation, regulatory economics, transportation planning, services marketing, and project management. You'll complete formal presentations, live projects, group projects and various case studies during the course of your degree.

Career opportunities: Global career opportunities in purchasing, logistics, consulting and more.

Sample courses you may take*: Introduction to Operations and Supply Chain Management, Production Planning and Control, Logistics Management, Procurement Management, Project Management and Operations Management.

*Courses offered vary from year to year.



Contact us

Program details:

ucalgary.ca/uci/collaborative-programs

To apply:

Contact your university's international office first. If eligible, they will provide you with the web link to apply

Sign up:

Ask questions and get answers at choose.ucalgary.ca or use our WeChat ID **UCalgary2500** to find us there

Admissions:

international.admissions@ucalgary.ca, +1.403.220.3822

Student services:

ucalgary.ca/iss



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