

 **FACTS 2017-2018**



**UNIVERSITY OF
ALBERTA**

The University of Alberta has had the vision to be one of the world's great universities for the public good since its inception. This university is dedicated to the promise made by founding president Henry Marshall Tory that:

*"...knowledge shall not be the concern of scholars alone.
The uplifting of the whole people shall be its final goal."*

This vision endures as the university strives to improve the lives of people in Alberta, across Canada, and around the world.

Motto

The university motto, quaecumque vera, means "whatsoever things are true" and is taken from the Epistle of St. Paul to the Philippians, Chapter 4, Verse 8, in the Latin Vulgate version of the Bible.

Mission

Within a vibrant and supportive learning environment, the University of Alberta discovers, disseminates, and applies new knowledge through teaching and learning, research and creative activity, community involvement, and partnerships. The U of A gives a national and international voice to innovation in our province, taking a lead role in placing Canada at the global forefront.

Vision

To inspire the human spirit through outstanding achievements in learning, discovery, and citizenship in a creative community, building one of the world's great universities for the public good.

GREEN & GOLD university colours

INSPIRATION: autumn colours of river valley;
prairie land flanked by deep spruce forests

Administration

President and Vice-Chancellor: David Turpin

Provost and Vice-President (Academic): Steven Dew

Vice-President (Research): Walter Dixon (interim)

Vice-President (Finance & Administration): Gitta Kulczycki

Vice-President (Facilities & Operations): Andrew Sharman

Vice-President (University Relations): Jacqui Tam

Vice-President (Advancement): Heather McCaw

Governance

The U of A is a board-governed public institution whose board members include representatives of the public, staff, faculty, and students, including representatives of the Students' Union and the Graduate Students' Association.

Senate

The senate is an independent advisory body of community leaders that plays a critical role in linking with the community and enhancing the reputation of the university. The senate also selects honorary degree recipients.

Senate Chair and Chancellor: Douglas Stollery



The U of A has an international reputation for excellence across the humanities, sciences, creative arts, business, engineering, and health sciences. Home to 38,000 students, the university ranks among the top five in Canada and the top 100 worldwide.

CAMPUSES

North Campus (original): Located in the province's capital of Edmonton, on the edge of the North Saskatchewan River valley, the campus covers about 50 city blocks, with abundant green spaces among its 150 buildings.

South Campus: Much of the university's agricultural research in areas such as food safety and crop use for food and industrial products takes place at the Edmonton Research Station. A prominent sight on this campus is the Saville Community Sports Centre, a 32,516-square-metre, multi-use recreation centre that is home to 14 varsity athletic teams, several community sports clubs, and the Canadian women's national basketball team.

Augustana Campus: An hour's drive from Edmonton in the rural community of Camrose, Augustana Campus offers degree programs in the liberal arts and sciences in an intimate residential learning environment. Specializations include a signature outdoor education program, nationally competitive sport programs, and international study opportunities.

Campus Saint-Jean: "The U of A en français"—is a one-of-a-kind gem in the heart of Edmonton's francophone community a short shuttle ride from the North Campus. A French-language campus, Campus Saint-Jean offers degree programs in arts, commerce, education, engineering (first year), science, nursing, and conservation and environmental sciences, as well as master's programs in education and arts.

Enterprise Square: Creating a vibrant hub in downtown Edmonton's historic former Bay Building, Enterprise Square is home to TEC Edmonton, the Faculty of Extension, the Alberta School of Business executive education and family business programs, and administrative units including Advancement and Alumni Relations.

Calgary: Though not technically a campus, the U of A's Calgary Centre houses staff from University Relations; Advancement; the Registrar's Office; the Faculty of Engineering; the Faculty of Agricultural, Life and Environmental Sciences; the Alberta School of Business; and the School of Public Health. Its purpose is to engage 20,000-plus Calgary-area alumni, as well as learners, prospective students, donors, and other university supporters.



NEW FACILITIES

Peter Lougheed Hall, which was opened in June of 2017, is the university's newest residence. As the centrepiece of the Peter Lougheed Leadership College, the hall includes spaces for meetings, presentations, as well as living space for more than 140 students and visiting experts. Along with future expansions planned for East Campus Village and Lister Hall, the new residences will help meet the U of A's goal of providing housing for all first-year undergraduate students.

Thanks to **\$149 million** in capital funding included in this year's provincial budget, the Dentistry/Pharmacy Centre will get a complete overhaul worthy of its 96 years as the "Pride of the Campus."

The Aga Khan Garden, made possible by a contribution in excess of **\$25 million** by His Highness the Aga Khan, will transform the University of Alberta Botanical Garden with forest paths, stepped terraces that change with the seasons, geometric water features that stream into wetlands, and a spectacular orchard of local plants. Completion is expected by summer of 2018.

The **\$57-million Physical Activity and Wellness Centre** opened in early 2015. The 17,000-square-metre facility includes a social street, student lounges, the two-storey Wilson Climbing Centre, and the Hanson Fitness and Lifestyle Centre on two floors.

The **\$134-million Donadeo Innovation Centre for Engineering**, opened in June 2015, provides nearly 28,400 square metres of exceptional space to support expanded educational and research activities in the Faculty of Engineering. Housing 1,700 people, the 14-storey facility is the tallest building on the U of A's North Campus.

BY THE NUMBERS

Students:

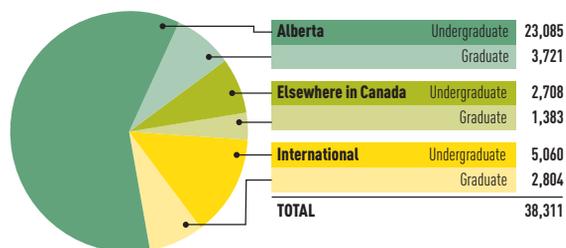
38,311
FROM **148**
Countries

388
Undergraduate
Programs

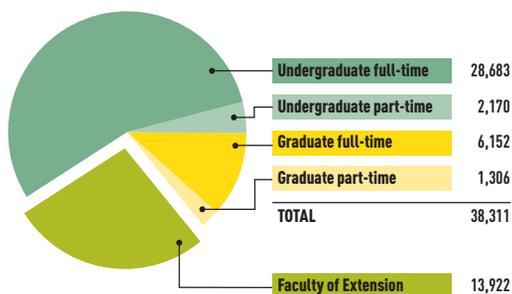
500
Graduate
Programs

18
Faculties

STUDENTS BY HOME ADDRESS 2016-17



Student Enrolment and Registrations 2016-17



Tuition and fees

\$6,923 per year (full-time arts, domestic)

\$22,612 per year (full-time arts, international)

FACULTIES

Agricultural, Life & Environmental Sciences • Alberta School of Business • Arts • Augustana • Campus Saint-Jean (French) • Education • Engineering • Extension • Graduate Studies and Research • Law • Medicine & Dentistry • Native Studies • Nursing • Pharmacy and Pharmaceutical Sciences • Physical Education and Recreation • Rehabilitation Medicine • School of Public Health • Science

TEACHING EXCELLENCE

41 National 3M Teaching Fellows
the most in Canada

Class sizes
AMONG
THE SMALLEST
at major Canadian universities

CENTRE FOR TEACHING AND LEARNING

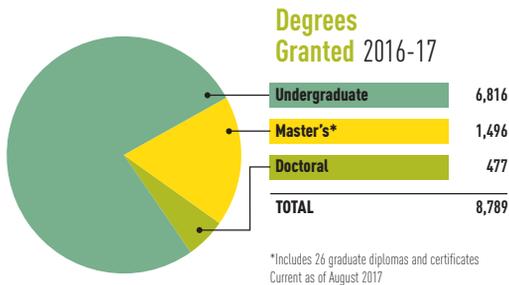
provides practical tools to help instructors excel

ANNUAL **FESTIVAL OF TEACHING** celebrates teaching and learning



72
Rhodes Scholars
third most in Canada

GRADUATION



Degrees, Diplomas, and Certificates Awarded by Faculty, 2016-17

Arts	1,164
Science	1,133
Education	984
Engineering	801
Business	627
Nursing	548
Medicine & Dentistry	350
Agricultural, Life & Environmental Sciences	333
Physical Education and Recreation	266
Augustana	171
Law	158
Pharmacy and Pharmaceutical Sciences	137
Campus Saint-Jean	79
Native Studies	35
Graduate Studies and Research*	2,055

* Includes degrees earned by students in the School of Public Health and Faculty of Rehabilitation Medicine

Number of parchments issued by the Faculty of Extension for June 2017 graduation: 674

STUDENT OPPORTUNITIES

Student Groups

Close to **450 student groups** are active on campus in nearly every area of student interest: academic, cultural, recreational, and political.

This diversity of interest includes outer space. Students from the faculties of science and engineering developed the first ever made-in-Alberta satellite, which was deployed from the International Space Station on May 26, 2017. Named Ex-Alta 1, the satellite was created to examine space weather.

Study Abroad

The U of A strives to enhance students' opportunities to study internationally at dozens of partner institutions. Exchanges are also possible with fellow members of the **Worldwide Universities Network**, a consortium of 18 top universities established to facilitate global research and teaching collaborations.

The U of A's **e3 summer program** provides an unparalleled blend of academics and real-life work experience. Offered in Berlin, Brazil, and Washington, D.C., this program allows students to combine language study, work or research internship, and academic coursework during their summer.

Undergraduate Research Opportunities

The Undergraduate Research Initiative was created in 2011 to develop discipline-specific and interdisciplinary skills for employment, research, and service in the community. Since it opened, the initiative has given 306 \$5,000 stipends to support undergraduate students.

Community Service Learning

In the **Community Service-Learning Program**, students gain hands-on experiences and draw real-life connections to social issues while giving back to the community. Since launching 12 years ago, the program has seen a 900 per cent increase in enrolment and a fourfold increase in community partners.

RESEARCH AND INNOVATION

University of Alberta research is helping advance knowledge, improve our world, and shape the future.

Health

In late 1921 and early 1922, biochemistry professor and alumnus James Collip played a key role in discovering insulin. He refined the crude pancreatic extract obtained by Frederick Banting, Charles Best, and John Macleod so it could be used in humans. U of A researchers picked up Collip's torch and in the 1990s created the revolutionary Edmonton Protocol, a method of implanting pancreatic cells that temporarily enables severe Type 1 diabetics to stop taking insulin. More recently, scientists developed an "under the skin" islet transplantation technique—an evolution of the Edmonton Protocol that offers less risk and greater patient benefit, and holds potential for regenerative medicine beyond diabetes.

A legacy of microbiology excellence at the U of A is headlined by Lorne Tyrrell's 1991 formulation of the first life-saving antiviral therapy for hepatitis B. In 2010, Tyrrell became the inaugural director of the Li Ka Shing Institute of Virology, which was made possible by a \$25-million gift from the Li Ka Shing (Canada) Foundation. Researchers at the institute include Michael Houghton, who co-led the discovery of the hepatitis C virus in 1989 and is now testing a vaccine.

A new U of A designed medical device will keep organs warm and supplied with oxygen—as if they were still in the body—so they are viable for transplant longer. The device also enables better resuscitation of dysfunctional organs, all of which has the potential to double or triple the number of available donor organs worldwide.

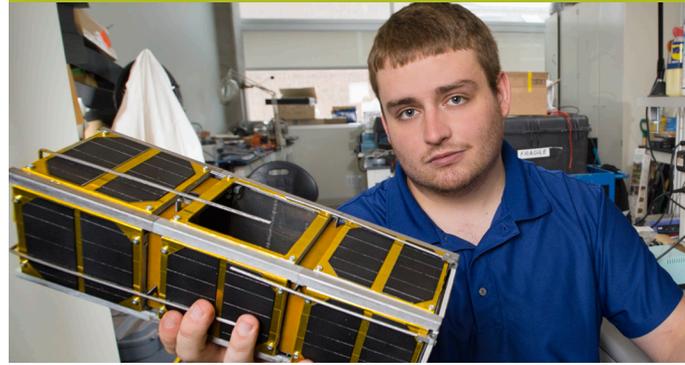
Food and Agriculture

Nutritional Canadian crops like canola and flax may soon have cancer fighting benefits too. U of A crop researchers isolated three genes from pomegranates and incorporated them into oilseed crops by adding a polyunsaturated fatty acid found to help slow the growth of skin, prostate, and breast cancer cells.

U of A researchers are examining how genetic improvements in cattle could affect production, profitability and greenhouse gas emissions as well as feeding, drinking, and other methane production parameters. Researchers believe breeding for lower methane production and low residual feed could reduce methane emissions by up to 45 per cent.

The U of A, along with local and German partners, designed a bio-refinery to turn agricultural waste into energy. The team is currently designing and prototyping a bioreactor that creates biodiesel from algae, treated waste, and carbon dioxide.

Ex-Alpha 1, a satellite built by U of A students to measure space weather, was launched into orbit earlier this year



Science and Technology

With U of A researchers having already solved checkers and heads-up limit Texas hold 'em, a group of U of A computing science grads working at one of the world's leading AI research companies, Google DeepMind, developed the first computer Go program capable of professional-level play. The U of A's significant AI expertise prompted DeepMind to open its first international research lab in Edmonton.

A U of A forestry researcher found a new clue in the fight against the invasive mountain pine beetle that has ravaged entire pine forests in western North America over the last decade. The research found that the pine tree's own chemistry contains chemicals toxic to the beetles. This finding could lead to breeding lodge pole seedlings to survive pine beetle attacks.

Early this year the U of A became the new home of the Canadian Ice Core Archive, an invaluable source of information on past climate change and the circulation of pollutants through the Earth's atmosphere. There are more than 1.7 kilometres of core samples in the collection, representing at least 10,000 years of ice accumulation. In some cases the cores include remnants of the last ice age.

Energy, the Environment, and Climate Change

In the 1920s, researcher Karl Clark devised the technique for liberating the 175 billion barrels of oil locked up in Alberta's oilsands. Today, more than 1,000 U of A researchers collaborate on the oilsands and its environmental impact, looking at carbon-capture sequestration, deep geothermal energy, emission reduction, land reclamation, and water conservation.

Biological Sciences researcher Keith Tierney showed that migratory fish can detect oilsands process-affected water and will leave an area with no long-term negative effects on their senses.

U of A ecologists led a review of lake studies conducted in Europe and North America, which showed that controlling phosphorus alone will reduce algae blooms in lakes. This is good news for municipalities because controlling phosphorus input into lakes is far less expensive than controlling nitrogen.



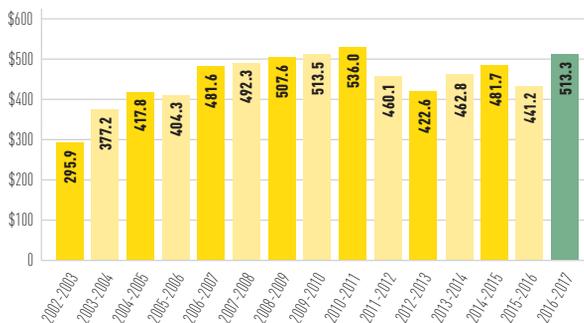
RESEARCH PARTNERS

The University of Alberta ranks among the top five Canadian universities in annual sponsored research funding, including clinical trials and related research funding.

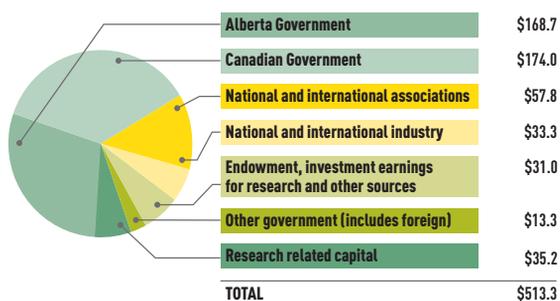
The U of A recently launched the new Future Energy Systems Research Institute, which was created out of a \$75-million federal grant to develop clean energy technologies and ways to integrate these new energy sources into our fossil fuel-based energy infrastructure, while tackling challenges presented by our current energy systems.

June 2016 marked the largest single gift in the U of A's history as the Stollery Children's Hospital Foundation (\$40M) and The Royal Alexandra Hospital Foundation (\$14.5M) gave \$54.5M to the Women and Children's Health Research Institute.

SPONSORED RESEARCH REVENUES in millions



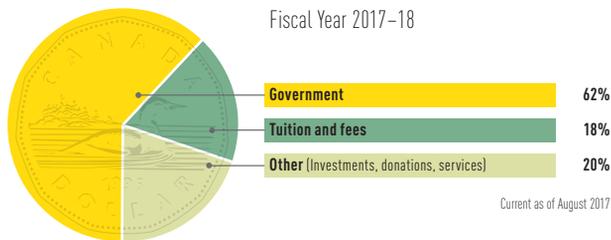
RESEARCH CONTRIBUTIONS BY SPONSOR in millions



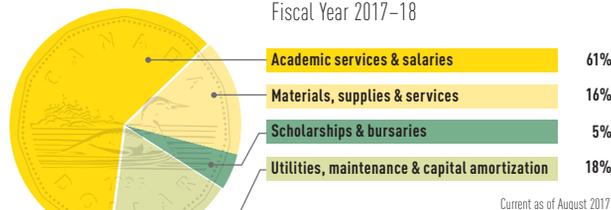
FINANCIAL

The university's consolidated budget—capital and operating—is \$1.919 billion.

Where the money comes from
PROJECTED BUDGET REVENUES
Fiscal Year 2017-18



Where the money goes
BUDGETED EXPENSES
Fiscal Year 2017-18



ECONOMIC IMPACT

Alberta's **4th** largest employer | **15,000** Employees | **\$12.3 BILLION** Impact on Alberta's economy

Tech transfer and commercialization

TEC Edmonton, a joint venture between the U of A and Edmonton Economic Development Corporation, fosters commercialization of research and brings the results of innovation to the benefit of Albertans.

In 2016-17, TEC Edmonton's clients launched 198 products and services, created nearly 400 jobs in 98 organization, and generated \$235 million in revenue. TEC Edmonton has assisted in the creation of 26 spinoffs from the U of A since 2011.

In 2014, TEC Edmonton was identified by Startup Canada as the **Incubator of the Year**, and by the Scandinavian UBI University Business Incubator Index as the **10th best university business incubator in the world**.

A portion of main-floor Enterprise Square location has been transformed into the TEC Innovation District, a 24-hour accelerator workspace to help tech entrepreneurs and companies grow and succeed with the help of TEC Edmonton's in-house team of experts.

DISTINCTIVELY U OF A

The **School of Public Health** is Canada's first fully accredited, stand-alone faculty dedicated to public health.

The **Faculty of Native Studies**, Canada's only such faculty, provides undergraduate programs specializing in the study of Aboriginal experiences and issues of language, culture, land, and resources.

The **U of A Libraries** is Canada's second largest research library, with a collection exceeding 5.2 million titles and over 8.7 million volumes across 10 locations.

The U of A continues to be a leader in the delivery of **massive open online courses**, or **MOOCs**, supplementing the wildly popular Dino 101 and Understanding Video Games offerings with Mountains 101, a MOOC jointly offered by Science and Physical Education and Recreation, in partnership with Parks Canada; and Indigenous Canada, which explores Indigenous histories and contemporary issues in Canada.

U of A Museums is a distributed network of **29 diverse collections**, totalling more than 17 million objects housed in 120 locations within departments across campus, from art and archeology to paleontology and zoology.

The **Peter Lougheed Leadership College** offers students an undergraduate leadership development program designed to forge leaders through formal and co-curricular learning, engagement, and mentorship. Headed by founding principal and former Canadian prime minister Kim Campbell, the college is part of an initiative between the U of A and The Banff Centre.

The **Medical Isotope and Cyclotron Facility** is revolutionizing how medical isotopes are manufactured, establishing the U of A as a centre of excellence in medical cyclotron research. The facility produces a safe, reliable supply of isotopes used in 80 per cent of nuclear medicine diagnostic procedures.

SUSTAINABILITY

The University of Alberta is just one of seven employers—and the only Canadian post-secondary institution—to be named one of Canada's Greenest Employers in each of the last nine years.

The university's renown in the area of sustainability is due in part to the work of the Office of Sustainability, launched in 2009, which was created to co-ordinate the sustainability initiatives of a number of groups on campus.

As part of its new sustainability plan, the U of A is aiming to keep 90 per cent of its waste out of the landfill by 2020—in alignment with the City of Edmonton's waste diversion target. Another one of the plan's most significant objectives is to reduce the university's greenhouse gas emissions to 17 per cent below 2005 levels by 2020, in line with Canada's pledge under the 2009 Copenhagen Accord.



ALUMNI

Our founders challenged students to think beyond themselves, to act, to uplift the whole people. Today, more than 275,000 alumni in 140 countries carry on this spirit as community and business leaders. They solve problems and take action to change lives. Collectively our alumni have founded more than 70,000 organizations globally, one-third of which are nonprofit or have a cultural, environmental or social mission. "Do Great Things" continues to be both the challenge and the promise of all U of A alumni.

\$348.5 BILLION Annual revenue of organizations founded by alumni

\$1.3 BILLION ENDOWMENT

GIVING

Philanthropic support is an integral and expanding part of the funding mix that supports the University of Alberta. Our donors support scholarships and bursaries, advance promising research, increase the university's ability to recruit and retain talent, and propel the institution to achieve its goals.

In 2016-17, 19,684 individuals, corporations and foundations committed \$176.7 million to the U of A

- 64% to advance the research needed to tackle society's biggest challenges
- 21% to enhance academic programs, including supporting student experiential learning opportunities and student research projects
- 9% for capital projects and facilities
- 6% for student awards and bursaries

The value of the university's endowment reached \$1.3 billion, with \$36.8 million made available in 2016-17 to support research, teaching and learning.



SPORTS



The University of Alberta Golden Bears and Pandas Athletics is one of Canada's premier intercollegiate programs. The U of A boasts 37 national championships in the past 17 years and sits third all-time with 75 national titles. As well, 49 coaches have won CIS Coach of the Year awards in the last 45 years. The man responsible for two of those coaching awards was hockey coaching legend Clare Drake, who was inducted into the Hockey Hall of Fame in 2017.

Perennial favourites, U of A teams have gone 24 consecutive years with at least one national championship win. No other school in Canada has an active streak that long. That streak was kept alive in 2016-17 thanks to a fifth national title for Golden Bears soccer and a record-setting eighth national crown for the Pandas hockey team.

U Sport National Titles by Sport

Sport	Men	Women	Total
Basketball	3	1	4
Cross-Country	1	0	1
Curling	2	2	4
Field Hockey	-	1	1
Football	3	-	3
Hockey	15	8	23
Rugby	-	6	6
Soccer	5	3	8
Track & Field	1	1	2
Swimming	0	3	3
Volleyball	8	7	15
Wrestling	4	1	5
TOTALS	42	33	75

*Totals don't include titles won by athletes competing in the non-U Sport affiliated sports of golf and tennis. The Pandas tennis team won the 2017 Canadian University Tennis Championship.

75 National Titles
3rd most in Canada

2,599 Academic All-Canadians
most in Canada

Sports are a big part of university life beyond the varsity ranks. Four alumni attended the 2016 Summer Olympics in Brazil: **Carline Muir (track and field)**, **Ben Saxton (beach volleyball)**, **Lynda Kiejko (pistol shooting)**, and **Tara Whitten (cycling)**.

The U of A's love of sport stretches to the classroom as well: the renowned Faculty of Physical Education and Recreation was the first university faculty of its kind in the Commonwealth when it was established in 1964.

INTERNATIONAL PARTNERS

The University of Alberta has close to 400 teaching and research agreements with governments and partner institutions in nearly 50 countries. Key examples include Ludwig-Maximilians University of Munich, Indian Institute of Technology Bombay, Indian Institute of Science Bangalore, Fudan University/Shanghai Medical College in China. Recently, the U of A and China's leading University, Tsinghua, launched a new China-based research centre—the first one with a Canadian university—to drive low-carbon, sustainable energy solutions to tackle pressing issues in energy, the environment, climate change, advanced power systems, and energy transport.

Earlier this year, the U of A announced a \$14-million research collaboration with Mexico that will see U of A researchers help with specific technical challenges that Mexican researchers have encountered in trying to transform a sagging energy sector.

The Helmholtz-Alberta Initiative is the U of A's largest international collaboration and was created to merge scientific and technical expertise between the U of A and German research centres to develop solutions for today's challenges in energy and the environment, terrestrial ecosystem and resource informatics, and health.

WORLD RANKINGS

The University of Alberta has once again pressed up the list of the world's elite universities, leapfrogging four spots to 90th, according to the 2018 **QS World University Rankings**.

The Center for World University Rankings listed the U of A among the world's best in five subject areas, including transplantation (6th), forestry (5th), geology (5th) and petroleum engineering (5th), and paleontology (3rd). Those results come on the heels of the QS World University Rankings by Subject 2017, which placed the U of A in the top 100 in an unprecedented 25 subjects, including 10th in the world for sports-related subjects, 16th for nursing and 18th in mining engineering.

Earlier in the year, Times Higher Education's listed the U of A as the 31st most international university, ahead of Harvard (33), Stanford (36), and Princeton (37).

CONTACTS

Country code: 1

Admissions (undergraduate)	780-492-3113	www.registrarsoffice.ualberta.ca
Admissions (graduate)	780-492-3499	grad.mail@ualberta.ca
Advancement	780-492-7400 or 888-799-9899	giving@ualberta.ca
Alumni Relations	780-492-3224	alumni@ualberta.ca
Ancillary Services	780-492-4281	housing@ualberta.ca
Board of Governors	780-492-4262	
Community Relations	780-248-1222	universityrelations@ualberta.ca
Gov't & Stakeholder Relations	780-492-1413	govrel@ualberta.ca
Graduate Students' Association	780-492-2175	gsa.frontdesk@ualberta.ca
President	780-492-3212	uofapres@ualberta.ca
Protective Services	780-492-5050	protectiveservices@ualberta.ca
Research	780-492-5353	vpresearch@ualberta.ca
Senate	780-492-2268	senate.office@ualberta.ca
Student Services	780-492-4145	dosdean@ualberta.ca
Students' Union	780-492-4236	info@su.ualberta.ca
Switchboard	780-492-3111	
Augustana Campus	780-679-1100	info@augustana.ca
Calgary Centre	403-718-6375	calgary@ualberta.ca
Campus Saint-Jean	780-465-8700	saintjean@ualberta.ca

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