



UNIVERSITY
OF ALBERTA

FACULTY OF AGRICULTURAL, LIFE & ENVIRONMENTAL SCIENCES

VIEWBOOK
2027
2028



WE ARE

Dedicated to people,
the land and the lab

Educating the next
generation of
problem-solvers

Addressing
global challenges

Territorial Acknowledgement

The University of Alberta respects the sovereignty, lands, histories, languages, knowledge systems and cultures of all First Nations, Métis and Inuit nations.

The University of Alberta, its buildings, labs and research stations are primarily located on the territory of the Nêhiyaw (Cree), Niitsitapi (Blackfoot), Métis, Nakoda (Stoney), Dene, Haudenosaunee (Iroquois) and Anishinaabe (Ojibway/Saulteaux), lands that are now known as part of Treaties 6, 7 and 8 and homeland of the Métis.



#1 IN CANADA AND
#14 IN THE WORLD
FOR AGRICULTURAL
SCIENCES



#2 IN CANADA
FOR FORESTRY



#3 IN CANADA
FOR FOOD SCIENCE
& TECHNOLOGY



#3 IN CANADA
FOR ENVIRONMENTAL
SCIENCES



#7 GLOBALLY
FOR IMPACT ON
UNITED NATIONS
SUSTAINABILITY GOALS



\$2.2M IN
FINANCIAL
SUPPORT
AWARDED ANNUALLY



1 IN 3
ALES STUDENTS RECEIVE
A SCHOLARSHIP



SMALL
AVERAGE
CLASS SIZES

The Agriculture/Forestry Building (AgFor)
on U of A's North Campus.



OUR PROGRAMS

ALES students in the
Agriculture/Forestry
Building lounge area.

Pursue a degree that makes a difference.
Programs in Agricultural, Life & Environmental
Sciences (ALES) span everything from the food
we eat and the clothes we wear to the animals,
people and world around us.

Explore our degrees:



Pg 06-07 Society + People

- BSc Fashion Business Management
- BSc Human Ecology



Pg 08-09 Health + Food

- BSc Dietetics Specialization
- BSc Food Science & Technology Specialization
- BSc Nutrition & Food Science (General)
- BSc Honors in Food Science or Nutrition



Pg 10-15 Environment + Sustainability

- BSc Environmental & Conservation Sciences
- BSc Environmental & Conservation Sciences / BA Native Studies
- BA Environmental Studies
- BSc Forestry
- BSc Forest Business Management



Pg 16-19 Animals + Agriculture

- BSc Agriculture
- BSc Agricultural / Food Business Management
- BSc Animal Health



Family science students facilitate a mock-counseling session.

CAREERS

Data Analyst
Digital Commerce Specialist
Fashion Marketer / Buyer
Global Sourcing and Supply Chain Manager
Operations Manager
Product Developer

DID YOU KNOW?

Our four-year BSc in Fashion Business Management is the only one of its kind in Canada.

BSc in Fashion Business Management



Do you see yourself entering the world of fashion, pursuing a career in management or even starting your own business? Achieve your goals with a competitive edge in the Fashion Business Management degree jointly offered with the Alberta School of Business.

This multidisciplinary program covers the theoretical, scientific and ethical processes of textiles and clothing, as well as the analytics, management tools and leadership skills needed to excel in the increasingly business-oriented and growing fashion industry.

COURSE EXAMPLES:

HECOL 241: Fashion Industries
HECOL 250: Design Studies and Practices

FASHION BUSINESS MANAGEMENT EXPERIENCES

Co-op Program: Students can access the School of Business Co-op Program, which includes a 12-month paid work placement.



“

I loved the blend of Human Ecology and Business classes in my degree program; it was the best of both worlds! Getting to be a part of two different faculties is rare in university. I loved being a part of both the Human Ecology and Business communities at the U of A.”

VANESSA

Recent graduate, BSc Fashion Business Management, from Edmonton, AB

BSc in Human Ecology



Human ecology explores the relationship between humans and their natural, social and built environments. It's a fascinating, multidisciplinary, applied field of study that provides you with the tools necessary to understand and enhance everyday life.

Clothing, Textiles & Material Culture

Learn how textiles and clothing are designed, produced, distributed and used. You'll develop skills within garment design and construction, study textiles' latest technological advances and examine quality assurance, sustainability and fair labour practices. This program can also involve the design of the places we live and work, such as environments for older adults or persons with disabilities.

COURSE EXAMPLES:

HECOL 333: Cross-Cultural Textiles
HECOL 470: Advanced Materials for Protective Clothing

EXPERIENCES:

Anne Lambert Clothing and Textile Collection: Students have access to this leading teaching collection of fashion and textiles. It's one of the biggest in Canada, with over 23,000 garments and accessories spanning over 350 years.

Family Science

No other environment affects people as profoundly as family. Learn about family strengths, issues and intervention techniques. Develop skills in areas that include parent-child relationships, couple relations, program planning and evaluation, community diversity and development, sexuality, family challenges, policy development and analysis and family finances.

COURSE EXAMPLES:

HECOL 210: Intimate Relationships
HECOL 211: Human Sexuality

HUMAN ECOLOGY PRACTICUM PLACEMENT

Our 200-hour for-credit placements allow students to gain hands-on knowledge and skills under the guidance of a practicing professional. Graduates frequently secure full-time employment from their placements. Recent placements include: Edmonton Community Legal Centre, Edmonton Garrison Military Family Resource Centre, Government of Alberta's Ministry of Arts, Culture & Status of Women, gravitypope, Royal Alberta Museum, The Family Centre and many others.

Studying human ecology will prepare you to contribute to the United Nations' Sustainable Development Goals, such as #10 Reduced Inequalities and #5 Gender Equality.

CAREERS

Interior Decorator
Fashion Marketer / Buyer
Museum Curator
Product Development Specialist
Theatre Costume Designer

Graduates of this BSc degree (the only one of its kind in Canada) are eligible for accreditation as a Professional Human Ecologist (P.HEc).

CAREERS

Community Developer
Professional Human Ecologist
Public Servant
Social, Community and Correctional Services



The Dietetics Specialization offers great networking opportunities and a wide range of career paths after graduation. Connections made during classes and internship with peers and future employers are so valuable, and the flexibility to choose a career that suits you makes finding work after graduation less daunting!”

THADDAEUS

4th year, BSc in Nutrition and Food Science,
Dietetics Specialization



Thaddaeus working as the Food Service Supervisor in Patient Food Services at the Sturgeon Community Hospital as part of the Dietetics Internship.

Students in this program can choose a minor:

- Food Markets & Policy
- Food Safety & Quality
- Food Service Management
- Global Health
- Human Ecology
- Nutrition Communication & Education
- Physical Activity

BSc in Nutrition and Food Science



Develop fundamental knowledge in chemistry, physics, biology, physiology, microbiology and behavioural science. Learn how these subjects are applied to nutrition, health, food science, engineering, preservation and product development. Students become qualified for careers in the public or private sector ranging from nutrition-health education and promotion to the food industry and related sectors.

COURSE EXAMPLES:

NU FS 356: Nutrition Across the Lifespan

NU FS 450: Food Product Development

Dietetics Specialization

This professional program specializes in how the body processes and uses nutrients and how food choices can promote good health and manage disease. This health science specialization trains students in the knowledge and practical skills to become a Registered Dietitian.

COURSE EXAMPLES:

NU FS 310: Teaching and Communication in Nutrition

NUTR 477: Advanced Population and Public Health Nutrition

DID YOU KNOW?

Our Dietetics Specialization is the only program in Alberta to be accredited by the Alberta College of Dietitians and incorporates internships in various professional health practices!



Human nutrition student Yelyzaveta and postdoctoral researcher Anissa prepare meals of specific nutritional value for research participants in a dietary intervention study.

Stand out from the crowd

Our Food Science programs are the only ones in Alberta that meet the program outcomes for the Institute of Food Technologists, the largest professional organization in food science!

Food Science and Technology Specialization

Apply chemistry, microbiology and food processing to the manufacturing, preservation, storage and distribution of food. Students gain scientific understanding of how to develop and produce high-quality foods, as well as sensory analysis, food safety, quality assurance and nutritional content analysis. Students can also take an internship in the food industry for credit.

COURSE EXAMPLES:

NU FS 283: Introduction to Food Engineering

NU FS 430: Principles of Sensory Evaluation of Foods

Honors in Nutrition or Food Science

These programs are designed for highly-motivated achievers with a keen interest in pursuing research. Honors programs offer specialized academic and research training and can prepare students for entry to other programs and graduate studies.

COURSE EXAMPLES:

NU FS 407 and NUTR 401: Independent Research Project —

Tackle a nutritional science topic of your interest with a research project supervised by a professor.

NUTRITION AND FOOD SCIENCE EXPERIENCES

Human Nutrition Research Unit (HNRU): This world-class facility is home to elite clinical nutrition research and technology. Did you know our whole body calorimetry unit is one of two in Canada? It can measure energy consumption to inform wellness plans for individuals with medical conditions.

CAREERS

Community Educator

Food Inspector

Food Market Researcher

Food and Nutrition Policy

Food Product Developer

Food Quality Assurance Officer

Food Safety Specialist

Food Scientist

Nutrition Consultant

Nutrition / Food Science Researcher

Nutrition Research Coordinator

Registered Dietitian
(Graduates of Dietetics
Specialization only)

Public Health Inspector



ALES students participating in Renewable Resources field school in the North Saskatchewan River in Edmonton.

BSc in Environmental and Conservation Sciences



Conservation Biology

Apply the principles of biology, ecology, social science, economics and statistics to species and landscape conservation, promoting ecological well-being for the benefit of all.

COURSE EXAMPLES:

REN R 205: Wildlife Biodiversity and Ecology
REN R 462: Parks, Ecology and Society

Environmental Economics & Policy

Develop skills in the economic analysis and policy process by considering the economic, social, political and legal background associated with environmental concerns.

COURSE EXAMPLES:

ENCS 352: Natural Resource and Environmental Law
R SOC 355: Rural Communities and Global Economies

Human Dimensions of Environmental Management

Learn how to use collective action, institutions, policy and management approaches to address challenges in environmental and natural resource management.

COURSE EXAMPLES:

R SOC 375: Public Participation and Conflict Resolution
R SOC 443: Resilience and Global Change

Land Reclamation

Combine the natural and social sciences to understand, assess and minimize the impacts of human activities on natural resources. Students learn how remediation, soil reclamation, re-vegetation and other conservation measures restore and maintain quality environments.

COURSE EXAMPLES:

REN R 305: Principles and Practices of Land Reclamation and Restoration
REN R 440: Disturbance Ecology Fundamentals

Northern Systems (Yukon University)

Protect Canada's northern systems! Explore factors in climate change, such as non-renewable energy resources, land use, changes in water quantity and quality and wildlife conservation. This unique major is entirely offered at Yukon University, but students are taking University of Alberta courses.

COURSE EXAMPLES:

REN R 465: Environmental and Conservation Field Studies
REN R 491: Land-use Planning in Canada's North

Wildlife & Rangeland Resources Management

Students learn to manage soil, plant and animal relationships on both private and public lands. They will also gain a better understanding of multiple-use issues including grazing, intensive agriculture, forestry and recreational activities.

COURSE EXAMPLES:

REN R 474: Utilization of Wildlife Resources
REN R 376: Fisheries and Wildlife Management

ENVIRONMENTAL AND CONSERVATION SCIENCES EXPERIENCES

SWAMP Laboratory: Take part in research right on campus at the Soils, Water, Air, Manures and Plants Laboratory – an ultra-clean research facility focused on environmental quality.

Field trips and Field School: Many courses offer field trips for experiential learning and all ENCS students participate in a 10-day field school. For example, REN R 205: Wildlife Biodiversity and Ecology includes observing wildlife in their natural habitat in the North Saskatchewan River Valley.

Graduates may be eligible for accreditation as a Professional Biologist (P.Biol), which has an average yearly salary of \$94,886.

CAREERS

- Agrologist
- Conservation Officer
- Environmental Consultant
- Environmental Interpreter
- Environmental Impact Assessor
- Environmental / Indigenous Relations Advisor
- Land Reclamation Specialist
- Land Use Planner
- Park Manager
- Policy Analyst
- Soil Scientist
- Sustainability Coordinator
- Wildlife / Conservation Biologist



Native Studies students participate in a classroom discussion.

BSc in Environmental and Conservation Sciences / BA Native Studies (Combined 5 Year)



Obtain two degrees in the combined program offered in partnership by the Faculty of ALES and Faculty of Native Studies. Learn how Indigenous history, politics and cultural values influence natural resource management. Students promote Indigenous land stewardship within the context of government policies and industrial development.

Human Dimensions of Environmental Management

Learn how to use collective action, policies, institutions and management approaches to influence environmental and natural resource conflicts, with consideration for Indigenous history, politics and cultural values.

COURSE EXAMPLES:

- R SOC 460:** Perspectives on Traditional Knowledge
- REN R 260:** History and Fundamentals of Environmental Protection and Conservation

“My experience studying abroad at the U of A’s school in Cortona allowed me to travel to the Island of Elba in the Tyrrhenian Sea, where I fell in love with scuba diving. After that, I decided to transfer into Environmental Studies, where I could study the world I loved to explore. Finally, I feel I am exactly where I am meant to be.”

QUINN
3rd year, BA Environmental Studies student, from Leduc, AB



BA in Environmental Studies



Take an interdisciplinary approach to the study of the environment, and explore how interactions between science, society, culture and the economy influence environmental management decisions. This degree is jointly offered with the Faculty of Arts and allows access to courses from many faculties to tailor your degree!

Culture, Society & Peoples of Canada

Understand environmental challenges facing Canadians, including Indigenous perspectives and issues in environmental stewardship.

COURSE EXAMPLES:

- NS 115:** Indigenous Peoples and Technoscience
- PHIL 368:** Topics in Social Justice

Food & Society

Explore sustainable food and agriculture by applying social, political, cultural, economic, ethical and feminist perspectives to issues of contemporary food production.

COURSE EXAMPLES:

- ANTHR 372:** Anthropology of Food
- PL SC 200:** Urban Plants: Gardening and Sustainability

Politics, Society & the Global Environment

Learn about political and social methodologies relevant to understanding environmental issues from a global perspective.

COURSE EXAMPLES:

- HGEO 252:** Human Dimensions of Environmental Hazards
- REN R 364:** Principles of Managing Natural Diversity

ENVIRONMENTAL STUDIES EXPERIENCES

AREC 173: The Plate, the Planet and Society is a popular cornerstone course in this program that introduces students to social perspectives on everything from what we eat for breakfast to how we protect endangered species and agricultural landscapes.

DID YOU KNOW?

Many Environmental Studies students pursue law after graduation. It’s an ideal program for a career as an environmental lawyer!

CAREERS

- Communications Officer
- Community Engagement Specialist
- Community Relations Advisor
- Environmental Education Specialist
- Environmental / Indigenous Relations Advisor
- Non-Profit Organization Administrator
- Policy Analyst
- Public Servant
- Sustainability Consultant
- Sustainability Coordinator
- Writer

Experiential learning:

Students can take part in various opportunities outside of the classroom, such as Campus as a Living Lab and the Undergraduate Research Initiative. These experiences help students thrive in a diverse and increasingly complex workplace.



ALES students participating in a forestry class, learning how to identify different types of trees on North campus.

“

The idea of making a living while working in the forest and learning about the intricate works of nature was mind-blowing. I’ve made incredible memories, like hitting the pith on my first tree core, eating the best moose meat through field school and travelling to Newfoundland for the 2024 Canadian Institute of Forestry Conference. Every moment has increased my passion for forestry and connection to the land.”

HYERIN

4th year, BSc Forestry student, from Korea



High demand in forestry means graduates are often employed in middle management positions directly after graduation — with an average starting wage of \$40/hour! (Source: ALIS)

CAREERS

Conservation Professional
Forest Health Specialist
Forest Resource Policy Analyst
Land Use Planner
Operations Forester
Registered Professional Forester
Silviculture Forester
Urban Forester
Water Resources Scientist
Wildland Firefighter

BSc in Forestry



Do you love the outdoors? Do you want to take care of the environment and sustainably manage forests? Top 2 in Canada and Top 25 globally, this program prepares students to manage natural resources through sustainable forest management practices based on our ecological, social and cultural values. Courses include forest management, silviculture, forest policy, conservation and ecology.

COURSE EXAMPLES:

REN R 340: Wildland Fire Science and Management

REN R 345: Wood Science and Utilization

EXPERIENCES:

Forest Industry Lecture Series: Attend this annual collaborative event for members of Alberta’s forestry community to enrich your experience – it’s free for current students!

RESEARCH IN FORESTRY

Students can get involved in various projects while still in their undergraduate studies, such as:

- **Resilient Forests (RES-FOR) Project:** a study that applies genomics to improve the health of Alberta’s forests.
- **Ecosystem Management Emulating Natural Disturbance (EMEND) Project:** a large-scale harvest experiment in a northern Alberta boreal mixed wood forest.

BSc in Forest Business Management



This program is designed for students wanting to pursue forestry and develop business management skills. Students build analytical, scientific and broad educational foundations in business and forestry. The forestry component includes courses within ecology, forest biology and management, while business management consists of introductory and advanced courses in business, including accounting, finance, marketing and human resources.

COURSE EXAMPLES:

REN R 335: Forest Harvesting and Transport

REN R 430: Forest Resources Management

FOREST BUSINESS MANAGEMENT EXPERIENCES

Co-op Program: Students can access the School of Business Co-op Program to develop a diverse skill set in a 12-month paid work experience.

Graduates of either accredited program are eligible for registration as a Registered Professional Forester (RPF), which has an average yearly salary of \$97,726.

CAREERS

Forest Ecologist
Forest Economist
Forest Operations Manager
Interpretive Naturalist
Policy Analyst
Registered Professional Forester
Silviculturist



ALES students Savannah and Ashley working at West Gimlet Yak Farm as part of the ALES Mini-internship Program.

BSc in Agriculture

Agricultural & Resource Economics

Learn how to apply economic tools to production, processing, marketing, financing and consumption in the agri-food sector and other resource industries. Students develop analytical techniques to understand and assess a wide variety of policy and market issues.

COURSE EXAMPLES:

- AREC 200:** Current Economic Issues for Agriculture and Food
- AREC 384:** Food Market Analysis

Animal Science

From the field to the fork: Gain an understanding of the scientific disciplines of animal science including physiology, genetics, biochemistry, nutrition and behaviour. Students learn how to integrate problem-solving skills in animal production systems including dairy, swine, beef, poultry and diversified livestock while also taking agronomy courses such as soil and plant sciences.

**Students may complete all pre-veterinary course requirements in this major.*

COURSE EXAMPLES:

- AN SC 310:** Physiology of Domestic Animals
- AN SC 485:** Animal Genetics and Breeding



Crop Science

Develop an in-depth understanding of plant growth, soils and factors affecting plant production. Students learn about plant biotechnology, breeding and production management techniques used to develop, grow and market high-quality and high-yielding crops.

COURSE EXAMPLES:

- PL SC 210:** Exploring Field Crop Agronomy
- PL SC 365:** Genetic Improvement of Crop Plants

Sustainable Agricultural Systems

Maintain and enhance the performance of agricultural systems (including people, plants, animals, soil, water and other resources) for maximum efficiency and sustainability. Key areas of study include natural resource management and its relationship to social and economic systems.

COURSE EXAMPLES:

- ENCS 356:** Principles of Rangeland Conservation and Habitat Management
- REN R 450:** Environmentally Sustainable Agriculture

AGRICULTURE EXPERIENCES

Did you know 40% of the world's population works in agriculture?

Prepare to join this exciting network by learning with your hands in our plant and animal research facilities:

- **South Campus:** Houses some of North America's leading agricultural research. In addition to 240 acres of farmland, you'll find dairy, swine and poultry research facilities, including our Heritage Chicken Program.
- **Agri-Food Discovery Place:** Links our research in food safety, AgTech and functional foods with industry collaborators.
- **Mattheis Research Range:** 12,000 acre ranch located near Duchess, AB that supports U of A research and teaching in rangeland and grassland ecology, wildlife management and impacts of climate change on rangeland and land reclamation.
- **ALES Mini-Internship (AMIP):** Many students opt to take a donor-funded mini-internship — truly getting their boots and hands in the mud!

Graduates may be eligible for accreditation as a Professional Agrologist (P.Ag), which has an average annual salary of \$85,644.

CAREERS

- Agricultural Inspector or Consultant
- Animal Nutritionist
- Biotechnologist
- Crop Producer
- Entomologist
- Geneticist
- Livestock Producer
- Market Gardener
- Soil Scientist
- Technical Services and Consulting

DID YOU KNOW?

Students often have summer jobs lined up by late October because there is so much demand for expertise in this field.



“

I love how diverse the course material is in the Food Business Management program, from learning the science behind the food we take for granted every day to business practices that will equip me to enter the workforce one day.”

CAROLINE

Recent graduate, BSc Food Business Management, from Calgary, AB

CAREERS

Business Development Officer

Commodities / Stock Trader

Food Manufacturing /
Processing Supervisor

Management Consultant

Market Development Specialist

Market Research Analyst

Policy Analyst

Elevate your skills by taking a variety of business courses, including finance, accounting, strategic management and marketing.

BSc in Agricultural / Food Business Management



Agricultural Business Management

Discover the significance of scientific and economic relationships within the agri-food sector. Courses cover agricultural and resource economics, as well as animal, plant and soil sciences. Learn business management skills needed to manage organizations effectively and efficiently within this global industry.

COURSE EXAMPLES:

AN SC 101: Principles of Animal Agriculture

INT D 303: Economics of World Food and Agriculture

Food Business Management

Work to understand the scientific and economic relationships that influence activities in the food industry. Courses in food chemistry and microbiology, combined with agricultural economics and business, build skills that can be applied to careers in the food processing and grocery retailing sectors.

COURSE EXAMPLES:

NU FS 374: Food Fundamentals and Quality

AREC 484: Strategic Management in Food and Resource Businesses

AGRICULTURAL / FOOD BUSINESS MANAGEMENT EXPERIENCES

Co-op Program: Students can access the School of Business Co-op Program, which includes a 12-month paid work placement.

BSc in Animal Health



Companion & Performance Animals

Develop an understanding of the physiology, nutrition, behaviour and evolving role of companion and performance animals. This major emphasizes physiology, nutrition, immunology, welfare and behaviour (including animal learning). Courses focus on the animals found in our homes, search and rescue, sports, animal-assisted therapy and service.

COURSE EXAMPLES:

AN SC 310: Physiology of Domestic Animals

AN SC 325: Equine Science

Food Animals

Learn how livestock, poultry and food industries interface by studying animal and human disease, animal nutrition, microbiology, physiology, behaviour and production. Students work closely with agricultural animals and have many opportunities for industry interaction. This major includes courses in immunology, One Health and animal welfare.

COURSE EXAMPLES:

AN SC 377: Food Animal Behaviour

AN SC 312: Reproductive Physiology of Domestic Animals

ANIMAL HEALTH EXPERIENCES

Research at South Campus: You can get involved in research, including areas like beef (meat processing), dairy (nutrition and milk processing), swine and chickens.



ALES student Kayesyl working at Stony Plain Veterinary Clinic as part of the ALES Mini-internship Program.

Students may complete all pre-veterinary course requirements in this degree and go on to complete veterinary programs in Canada and around the world!

CAREERS

Animal Behaviour
Consultant / Trainer

Animal Nutritionist

Animal / Pet Sector Sales
and Marketing Manager

Animal Welfare Officer

Feed / Ingredient Sales
and Technical Services

Livestock Production

Pharmaceutical Researcher

Policy Analyst



ALES Human Ecology student Tanna working in the Mactaggart Art Collection at the University of Alberta Museums as part of her 200-hour Human Ecology practicum placement.



Israt Jahan Ima, a conservation biology student, during her visit to a logging site near Hinton, AB as part of her ALES Mini-Internship with the Alberta Ministry of Forestry and Parks.

WORK EXPERIENCE DURING YOUR DEGREE

ALES Mini-Internship Program (AMIP)

Get industry experience during fall and/or winter reading weeks! Students are matched with an industry-specific host organization for three days of volunteering and take part in the program as many times as they like during their degree, even if it's not related to their area of study.

Students get first-hand career experiences in the following areas:

- Agriculture
- Animal health
- Environment
- Food science
- Museum and textiles

Program benefits:

- Test a career you're interested in before you pursue it.
- Make connections and build your professional network.
- Experience unique out-of-province opportunities (some fully subsidized).

What can you do during your degree?
uab.ca/ALESExp

Human Ecology Practicum

Required for students in Human Ecology, this practicum formally integrates a student's academic study with work experience in community organizations and agencies.

RECENT PLACEMENTS:

- Alberta Health Services
- Lululemon Athletica
- Government of Canada
- Royal Alberta Museum
- The Family Centre
- YETI
- YMCA Northern Alberta

Dietetics Internship

Students in the Dietetics Specialization are required to participate in professional practice during their fourth year.

During this year, students work in various community settings (including rural areas). These placements fulfill several of the requirements to qualify as a Registered Dietitian in Alberta.

Business Co-op

Students in any ALES Business Management Program can access the School of Business Co-op Program — an exciting opportunity for companies to take on your skill set in a 12-month paid work experience.

Science Internship Program (SIP)

Invites ALES students to apply knowledge gained in academic studies to the workplace through a full-time, paid 4, 8, 12 or 16-month internship experience.

RECENT PLACEMENTS:

- **PepsiCo:** This student helped product development by testing new products, preparing them for production, and assisting with ingredient research and quality improvement.
- **Government of Canada - Lacombe Research and Development Centre:** This student helped with agricultural research by preparing and processing seed and plant samples, assisting plot maintenance, collecting research data and operating field equipment (under supervision).
- **City of Edmonton:** This student helped Edmontonians to learn more about waste reduction and composting by hosting workshops, delivering presentations and composing outreach materials.



Students taking part in the Northern Systems field course co-hosted with Yukon University.

FIELD WORK OPPORTUNITIES

Introductory Forestry Field School

REN R 101: Join other first-year forestry and forest business management students in August for this six-day course that will introduce you to the broad field of forestry through experiential learning.

You'll travel through the forested areas of west-central and northern Alberta, learning about forest plants, animals and ecology, field operations (including harvesting and silviculture) and forest protection. You'll even visit manufacturing facilities.

Learn basic field skills and meet forest practitioners and professionals, many of whom participated in field school themselves! You'll also get to know your "cohort" of students and feel well-prepared for your upcoming classes!

Field Skills in Environmental, Conservation & Forest Sciences

REN R 290 & REN R 295/ENCS 299: After completing second year, you'll have the opportunity to take part in this immersive 10-day program to learn field skills on location and to help solve current and future landscape management issues. You'll apply the academic knowledge you've gained so far in practical and experiential environments alongside your fellow students.

REN R 465: Explore Yukon's natural and cultural history with this week-long field studies course! Discuss environmental, social and economic challenges in this region, and identify ecologically and culturally-appropriate research and management approaches for Canada's northern systems.

CERTIFICATES

Set your degree apart with an embedded certificate on a topic that interests you. Popular certificates that pair well with our programs are:

- Certificate in Sustainability
- Certificate in International Learning
- Certificate in Innovation and Entrepreneurship
- Certificate in Community Engagement and Service-Learning

STUDY ABROAD

Imagine taking courses somewhere else in the world... and having them count for credit towards your degree! Planning with our advisors is recommended to ensure options fit into your program and maximize your ALES experience.

Wageningen University & Research Experiential Learning (Netherlands)

ALES students have an opportunity to study, research and work in a wide variety of fields at the historic Wageningen University and learn the leading-edge agricultural practices that have made the Netherlands the world's second-leading agricultural exporter.

Semester in the North – Yukon University (Whitehorse, YK)

Students in environmental-related programs can spend a semester in the Yukon to learn about protecting Canada's northern systems and to help develop solutions to global climate change, all while earning credit towards their degree.

Bangor University (Wales)

Get credit for specialized coursework in forestry or environmental and conservation sciences programs.



Students participating in ALES 391: Mexico Tour.

During this field school program, students travelled throughout the state of Jalisco to experience small and commercial farms, markets and grocers, and food processing operations with trade linkages to Canada and Alberta.

Students get the Spotlight

In addition to sustainability-focused research and the pursuit of environmentally-friendly campus operations, it was student-led initiatives that boosted us to top ranks in sustainability. Students pursuing the Certificate in Sustainability turned ideas to reality with their campus-wide initiative DishZero, a reusable takeout container program.



ALES students Brittney and Danial in the Agriculture/Forestry Building rooftop greenhouse.

HANDS-ON OPPORTUNITIES DURING YOUR DEGREE

There's always something to do in our community!

- **Volunteer at South Campus in our Green & Gold Garden.** Whether you're new to gardening or have a seasoned green thumb, get dirty to learn!
- **Join the Hands-on a Holstein Program.** At the Dairy Research and Technology Center on South Campus, you can apply your learnings in the classroom to a practical environment. Students volunteer in daily operations and special projects centred around animal welfare and management.



The U of A Ag Club in Quad.

DID YOU KNOW?

The Ag Club is one of the oldest student clubs (established in 1911!) still in existence at the U of A.

ALES STUDENT CLUBS

- Agriculture Club
- **Environmental and Conservation Sciences Students' Association (ECSA)**
- Environmental Studies Students' Association (ESSA)
- Faculty of ALES Undergraduate Students' Association (FAUnA)
- **Forest Society**
- **Human Ecology Students' Association (HESA)**
- Multi-Species Judging Club
- Nutrition and Food Science Students' Association (NUFSSA)
- Poultry Research Centre Student Club
- Pre-Vet/Animal Health Club
- U of A Chapter of the Wildlife Society

ECSA hosts outdoorsy events right here on campus! You can organize plant sales, cook over a campfire and give back while you have fun. Many of these events also raise money for conservation efforts.

The Forest Society connects like-minded students in their favourite forestry and conservation activities like annual Christmas tree sales and logger sports!

HESA members volunteer for the Human Ecology Department's Clothing Repair Café, which teaches mending to increase the lifespan of garments and decrease waste in the fashion industry.



READY, SET, APPLY!

ACADEMIC REQUIREMENTS

Admission to the Faculty of Agricultural, Life & Environmental Sciences varies depending on applicant type (directly from high school or post-secondary transfer) and program.

Required Alberta Grade 12 Courses (or equivalents)

**Most programs share the same required courses:*

- English 30-1
- Chemistry 30
- Biology 30
- Math 30-1 (or Math 30-2 for select programs)
- Additional course:
 - Fine Arts
 - Humanities
 - Languages other than English
 - Math/Sciences
 - Options

Programs and admission requirements:

uab.ca/programs

Historical admission averages by faculty:

uab.ca/averages

Apply for scholarships and awards:

uab.ca/awards

University access program for Indigenous students – Transition Year Program:

uab.ca/typ

Important deadlines and to apply: uab.ca/apply

SEE YOURSELF HERE!

The sunny atrium in the Agriculture/Forestry Building is a popular spot to study and socialize.

ASK US

You've got questions
and we've got advisors.
ales.recruiting@ualberta.ca
uab.ca/advising

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