FACULTY OF AGRICULTURE
OUTLINE

Here is what you’ll learn:

• Faculty overview
• Why study agriculture?
• Academic options at Dalhousie
• Student life at the Agricultural campus
• Residence options
• What are your next steps?
• How to stay connected with us
OVERVIEW

1,000+ students
20% international students
TOP 200 university for agriculture and forestry (QS World University Rankings, 2018)
4 JOBS for every agriculture graduate in Canada
$10M in funded research each year
$400K in donor-supported scholarships and bursaries each year
WHY STUDY AGRICULTURE?

Research in our Faculty aims to support the UN Sustainable Development goals, which for many, Agriculture is the root of the solution:
WHY STUDY AGRICULTURE?

More about the UN Sustainable Development Goals:

- The 2030 Agenda for Sustainable Development was adopted by all UN Member States in 2015
- It provides a shared blueprint for peace and prosperity for people and the planet, now and into the future
- There are 17 Sustainable Development Goals
- The goals are an urgent call for action by all countries - developed and developing
- They recognize that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests
- YOU are crucial leaders in the future health of our world!
ACADEMIC OPTIONS

There are four departments in the Faculty of Agriculture:

1. Animal Science and Aquaculture
2. Business and Social Sciences
3. Engineering
4. Plant, Food and Environmental Sciences

All departments contain 2 and 4-year program options.
ANIMAL SCIENCE & AQUACULTURE

Program options:

• Animal Science- BSc (Agriculture)
• Aquaculture- BSc (Agriculture)
• Bioveterinary Science- BSc
• Pre-Veterinary Medicine
• Veterinary Technology- DipTech
ANIMAL SCIENCE & AQUACULTURE

Hands-on learning opportunities:

• Animal nutrition
• Fish health
• Veterinary immunology
• Animal welfare
• Veterinary clinical pathology
• Animal-based food processing
• Vet Tech: 600+ hours practical work through 3 externships & internships
• And more!
Research in progress:

• Conservation and rearing wild Atlantic salmon to re-stock West River
• Feral cat & other companion animal rescue organizations
• Improving sheep breeding outside natural breeding season
• Insect-based protein products for fish and poultry
• The state of the North American ocean as evidenced by the feeding habits of the blue shark
ANIMAL SCIENCE & AQUACULTURE

Career Opportunities:
• Animal Nutrition Specialist
• Animal Welfare Inspector
• Aquaculture Manager
• Food Promotion and Inspection
• Pet Boarding, Training & Behaviour Services
• Aquaculture Manager
• Veterinarian or Veterinary Technician
• Wildlife Conservation Officer
BUSINESS & SOCIAL SCIENCES

Programs:

• Agricultural Business- BSc (Agriculture)
• Agricultural Economics- BSc (Agriculture)
• International Food Business- Bachelor of Agriculture
• Small Business Management- BTech
• Diploma in Business Management- DipTech
  • Dairy or Agriculture
BUSINESS & SOCIAL SCIENCES

Hands-on learning opportunities:

• Agricultural and food policy
• Issues in agribusiness sustainability
• Food safety and quality assurance
• New product development
• Advanced entrepreneurship
• Agribusiness value chain management
Research in progress:

- Food distribution and policy, food systems and supply chain
- Linking consumer lifestyle choices with sustainable agri-food system and food innovation
- Intensive investigation of decision making related to the Atlantic Dairy Industry
- Media analysis of agriculture, food, and conservation issues
BUSINESS & SOCIAL SCIENCES

Career Opportunities:
• Agribusiness Marketing Specialist
• Financial and Credit Advisor
• Farm and Business Entrepreneur
• Commodities Trader
• Economic Researcher
• Dairy Industry Sales & Service
• International Development Officer
• Marketing Manager
• Trade Specialist
• Business Owner & Operator
ENGGINEERING

Programs:

• Engineering (First 2 years of the Bachelor of Engineering)
• Integrated Environmental Management- BSc (Agriculture)
ENGINEERING

Hands-on learning opportunities:

• Engineering Design I and II
• Electric circuits
• Dynamics
• Bioresource processing
• Energy production and utilization
• Irrigation and drainage
ENGINEERING

Research in progress:
• Agricultural automation
• Biofuels development
• Agricultural soil and water studies
• Digital agriculture
• Innovative waste management (Composting)
Career Opportunities:

- **Engineer** (Mechanical, Civil, Chemical, Electrical, Industrial, Environmental)

OR

- Precision Agriculture Consultant
- Structural Design Consultant
- Production Supervisor
- Energy Efficiency & Renewable Energy Advisor
- Sustainability Officer
- Environmental Program Coordinator
- Wastewater Treatment Operator
PLANT, FOOD & ENVIRONMENTAL SCIENCES

Programs:

- Environmental Landscape Horticulture- B.Tech
- Environmental Sciences- BSc (Agriculture)
- Landscape Architecture- B.Tech
- Managed Landscapes- DipTech
- Plant Science- BSc (Agriculture)
- Plant Science Technology- DipTech
PLANT, FOOD & ENVIRONMENTAL SCIENCES

Hands-on learning opportunities:

• Entomology
• Air, climate & climate change
• Plant ecophysiology
• Soil fertility and nutrient management
• Tree fruit crops
• Design and construction of turf facilities
• Functional foods and nutraceuticals
PLANT, FOOD & ENVIRONMENTAL SCIENCES

Hands-on learning opportunities:

- State of art lab facilities to train in
- Central Instrumentation Facility
- Botanical Garden and field labs (orchard, demonstration garden)
- Plant propagation, horticulture, soil science, plant diagnostics, soil health
- Genetics, Molecular Techniques, Genomics
- Greenhouse gas emission and climate change
- Food and bioproducts
PLANT, FOOD & ENVIRONMENTAL SCIENCES

Research in progress:

- Organic & sustainable agriculture
- Soil health
- Greenhouse gas emission and climate change
- Insect ecology
- Ecophysiology
- Horticulture crops & cropping systems
- Geospatial informatics
- Green performance
- Nanomaterials and nanoscience
- Plant, microbial interactions and microbiome
PLANT, FOOD & ENVIRONMENTAL SCIENCES

Research currently in progress:

• Organic & sustainable agriculture
• Soil health
• Greenhouse gas emission and climate change
• Insect ecology
• Ecophysiology
• Horticulture crops & cropping systems
• Geospatial informatics
• Green performance
• Nanomaterials and nanoscience
• Plant, microbial interactions and microbiome
# Admission Requirements

For curriculum specific course requirements visit: **DAL.CA/UGCOURSEREQUIREMENTS**

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>English</th>
<th>Math</th>
<th>Science</th>
<th>Additional Academic Subjects</th>
<th>Minimum Average</th>
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<tbody>
<tr>
<td>Bachelor of Agriculture - International Food Business</td>
<td>✓</td>
<td>✴</td>
<td></td>
<td>+3</td>
<td>75%</td>
</tr>
<tr>
<td>Bachelor of Engineering***</td>
<td>✓</td>
<td>✴ **</td>
<td>Chemistry 12 and Physics 12***</td>
<td>+1</td>
<td>70%</td>
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<tr>
<td>BSc. Agriculture/Pre-Veterinary Medicine****</td>
<td>✓</td>
<td>✴ **</td>
<td></td>
<td>+3</td>
<td>75%</td>
</tr>
<tr>
<td>BSc. Bioveterinary Science****</td>
<td>✓</td>
<td>✴ **</td>
<td></td>
<td>+3</td>
<td>75%</td>
</tr>
<tr>
<td>Bachelor of Technology / Landscape Architecture</td>
<td>✓</td>
<td>✴</td>
<td>Biology 11</td>
<td>+3</td>
<td>70%</td>
</tr>
<tr>
<td>Diploma in Business Management*****</td>
<td>✓</td>
<td>Math 11</td>
<td>Biology 11 or Chemistry 11 or Agriculture 11 and Science 10</td>
<td>+4</td>
<td>60%</td>
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<tr>
<td>Diploma in Managed Landscapes</td>
<td>✓</td>
<td>✴</td>
<td>Biology 12 and Chemistry 11</td>
<td>+2</td>
<td>60%</td>
</tr>
<tr>
<td>Diploma in Plant Science Technology******</td>
<td>✓</td>
<td>Math 11</td>
<td>Chemistry 11 and Biology 10 or Science 10</td>
<td>+4</td>
<td>60%</td>
</tr>
<tr>
<td>Diploma in Veterinary Technology</td>
<td>✓</td>
<td>✴</td>
<td>Biology 12 and Chemistry 12</td>
<td>+1</td>
<td>60%</td>
</tr>
</tbody>
</table>
There are plenty of ways to get involved on campus to enhance your university experience!
Gain a larger knowledge outside of the classroom:

• Cultiv8- Agricultural innovation program
• AggieWIL- Work Integrated Learning
• Adopt a cow 🐮
• Study abroad
• Academic clubs and societies
• Internships & co-ops
On-campus support:
• Academic advisors
• Career support
• Indigenous Student Access Pathway
• IT Help Desk
• Math & Physics Help Centre
• On Track
• Academic Accommodations
• Student Success Program
• Writing Centre
STUDENT LIFE

Non-academic opportunities:
• Dalhousie Agricultural Students’ Association (DASA)
• Student Success Centre
• Financial Advising
• Health Services
• International Centre
• Multicultural Centre
• Mental Health Support
• Residence Support Staff
• SAIL Leadership Program
CAMPUS LIFE

• College Royal
• Aggies at Night
• Community Garden
• Volunteer Events
• Line Dancing
• Visiting Speakers & Workshops
• Residence Events/House Challenges
• Dalhousie Agricultural Students’ Association (DASA)

DALAGGIES.CA
ATHLETICS

- Langille Athletic Centre
- Fitness Classes
- Bike Loan Program
- Legge Health Clinic
- Woodsmen Weekend
- Club, Intramural, and Varsity levels
- Free admission to varsity home events (Go Rams!)

DAL.CA/RAMS
RESIDENCE LIFE
RESIDENCE LIFE

• Three residence buildings
  • Fraser House
  • Chapman House
  • Trueman House

• Three room options
  • Shared Double
  • Super Single
  • Single

• Special sections
  • Quiet sections
  • All gender sections
  • Single gender sections
  • Mature student housing
RESIDENCE LIFE

How to submit application:
1. Pay admission deposit online
2. Get Net ID
3. Visit Dal Online
   • Web for Students → Student tab
   • Select “Residence Application
4. Check your Dal email
   • Offers sent out mid-May
5. Accept your room offer!

New from high school students are guaranteed a room in residence if you apply by June 15!

Want to live off-campus?
DAL.CA/LIVINGOFFCAMPUS
RESIDENCE LIFE

Food Services:
- Continuous Dining Experience
- My Pantry - make your own meal!
- Visit different stations
- Accommodations for dietary restrictions
- Retail Outlets – Haley Snack Shop and Barley Café (not included in your meal plan)
WHAT’S NEXT?
SUMMER PREP COURSES

• MTHA 0050: Functions
• PHYS 0050: Preparatory Physics
• CHMA 0050: Preparatory Chemistry

Contact Extended Learning for more info:

• Phone: 1.902.893.4258
• Email: extended.learning@dal.ca
NEXT STEPS

Once accepted:

1. Visit **DAL.CA/CONGRATULATIONS**
2. Accept your offer of admission by paying your $200 admission deposit online
3. Set up and check your Dal email
4. Submit your residence application via Dal Onlin
5. Select your courses in June (Register On Track)
STAY CONNECTED

Facebook: /dalagriculture

Instagram: @dalagriculture

Twitter: @dalagriculture

Join the AC Incoming Class of 2020-21 Facebook group:
https://www.facebook.com/groups/dalacincoming2020/
Questions? Please Contact:

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