

# APPLIED BIOLOGY

Faculty of Land and Food Systems

PROGRAM OVERVIEW



## APPLIED BIOLOGY

In UBC's Bachelor of Science in Applied Biology, you will explore the real-world application of the life sciences to the management of land, animals and food production. Applied Biology at the Faculty of Land and Food Systems is different from other biological sciences programs: you can customize it to learn about what's most interesting to you. The program is built around practical learning experiences, critical thinking, and a systems approach that integrates technical knowledge with sustainability and ethics. You'll graduate with the skills and knowledge to take a leadership role in sustainable food production and the responsible use of land, water and animals.



# PROGRAM OPTIONS

- Applied Animal Biology
- Sustainable Agriculture and Environment
- Honours, Minors, Co-op, Exchange



# APPLIED ANIMAL BIOLOGY REQUIREMENTS



*AABI provides students with fundamentals of animal behaviour, animal physiology and related fields as applied to farm, companion and other animals. It also exposes students to the role of animals in human society and the ethical, environmental and other issues that arise.*

# APPLIED ANIMAL BIOLOGY REQUIREMENTS

- 123 credits total
- At least 45 credits must be upper level (300 and 400)

## Year 1

LFS 100

LFS 150 or ENGL 112, WRDS 150

BIOL 112 & 121

BIOL 140

CHEM 121 (or 111)

CHEM 123 ( or 113)

MATH 102 or equivalent

PHYS 101, 107 or 117

Restricted Electives – 3 credits

Unrestricted Electives – 3 credits

## Year 2

LFS 250

LFS 252  
(or FRST 231 or BIOL 300)

BIOL 200 & 201

CHEM 233 & 235

MICB 201

Restricted Electives –9 credits

## Year 3

Restricted Electives –24 credits

Unrestricted Electives –6 credits

## Year 4

Restricted Electives –15 credits

Unrestricted Electives –15 credits



# EXPLORE CAREER POSSIBILITIES IN AABI

Career opportunities vary widely across a range of fields including:

|                           |                                  |                                |  |                                   |
|---------------------------|----------------------------------|--------------------------------|--|-----------------------------------|
| <i>animal welfare</i>     | <i>animal nutrition</i>          | <i>aquaculture</i>             | <i>animal handling</i>                                     | <i>dairy industry</i>             |
| <i>veterinary service</i> | <i>animal regulatory bodies</i>  | <i>wildlife rehabilitation</i> | <i>wildlife conservation</i>                               | <i>education of animal issues</i> |
| <i>farming</i>            | <i>Companion animal industry</i> | <i>resource management</i>     | Other roles in non-profit, government and private industry |                                   |

There are many career paths that can combine your academics, skills, and experience with your different interests. Note that some career options may require further education or training. Visit the [National Occupational Classification](#) website to research basic requirements and responsibilities of jobs in your field.

Registration with a professional organization may be important. Review the requirements for [Professional Agrologists](#) or [Registered Professional Biologists](#)



# SUSTAINABLE AGRICULTURE AND ENVIRONMENT REQUIREMENTS



*SAGE focuses on the application of soil, plant and agro-ecological sciences to enhance the sustainable production of food, and other agricultural products, while simultaneously conserving land and enhancing ecological services.*

# SUSTAINABLE AGRICULTURE AND ENVIRONMENT REQUIREMENTS

- 123 credits total
- At least 45 credits must be upper level (300 and 400)

## Year 1

LFS 100

LFS 150 or WRDS 150

BIOL 112 & 121

BIOL 140

CHEM 121 OR 111

CHEM 123

MATH 102 or equivalent

PHYS 101, 107 or 117

Restricted Electives –  
3 credits

Unrestricted Electives –  
3 credits

## Year 2

LFS 250

LFS 252, (or FRST 231,  
BIOL 300, STAT 200)

APBI 200

APBI 210

APBI 244

APBI 260

BIOL 200

Restricted Electives –  
3 credits

## Year 3

LFS 350

APBI 314

APBI 327 or 328

APBI 351

APBI 360

ECON 310

BIOL 200

Restricted Electives –  
9 credits

Unrestrictive Electives –  
3 credits

## Year 4

APBI 402

APBI 460 or LFS 450

Restricted Electives –  
18 credits

Unrestricted Electives –  
6 credits



# EXPLORE CAREER POSSIBILITIES IN SAGE

Career opportunities vary widely across a range of fields including:

|                                 |                                |                              |  |                                 |
|---------------------------------|--------------------------------|------------------------------|--|---------------------------------|
| <i>Natural resource planner</i> | <i>Agroforestry consultant</i> | <i>Food security advisor</i> | <i>Farm manager</i>  | <i>Environmental Consultant</i> |
| <i>Ecosystem restoration</i>    | <i>Community educator</i>      | <i>Horticulturalist</i>      | <i>Plant, soil, water, researcher</i>                      | <i>Resource management</i>      |
| <i>Food production auditor</i>  | <i>Non-profit manager</i>      | <i>Urban restoration</i>     | Other roles in non-profit, government and private industry |                                 |

There are many career paths that can combine your academics, skills, and experience with your different interests. Note that some career options may require further education or training. Visit the [National Occupational Classification](#) .

Registration with a professional organization may be important. Review the requirements for [Professional Agrologists](#) or [Registered Professional Biologists](#)



# HOW DO I KNOW WHICH MAJOR IS RIGHT FOR ME?

## Do Your Research

- Review the course calendar and the program pages on the LFS website
- Connect with the LFS Student Services, your program advisor or the APBI program assistant with any questions you have

## Attend LFS and APBI Events

- LFSUS's Discover Your Major and other faculty events (view events here <https://www.landfood.ubc.ca/lfs-undergrad-calendar/> )
- Meet working professionals during the APBI workshop series (<https://blogs.ubc.ca/lfsapbi/>)
- Follow [@UBCLFS](#) and [@LFSUSUBC](#) for event updates

## Explore Your Own Interests

- Write down activities, tasks or hobbies that bring you joy
- Explore required courses and potential career options
- Find places where your interests overlap with job or course descriptions



# How Do I Declare My Major?

Choose the major best suited to your interests

## Declare your major on the SSC

- SSC will prompt you to select a major when logging into register for your second year
- Select your major from the list and continue with registration according to the course calendar

## Don't fret, you can change your mind after selecting a major

- Making a change may impact your course selection and degree progression
- Changes cannot be made mid year
- Consult with an Academic Advisor

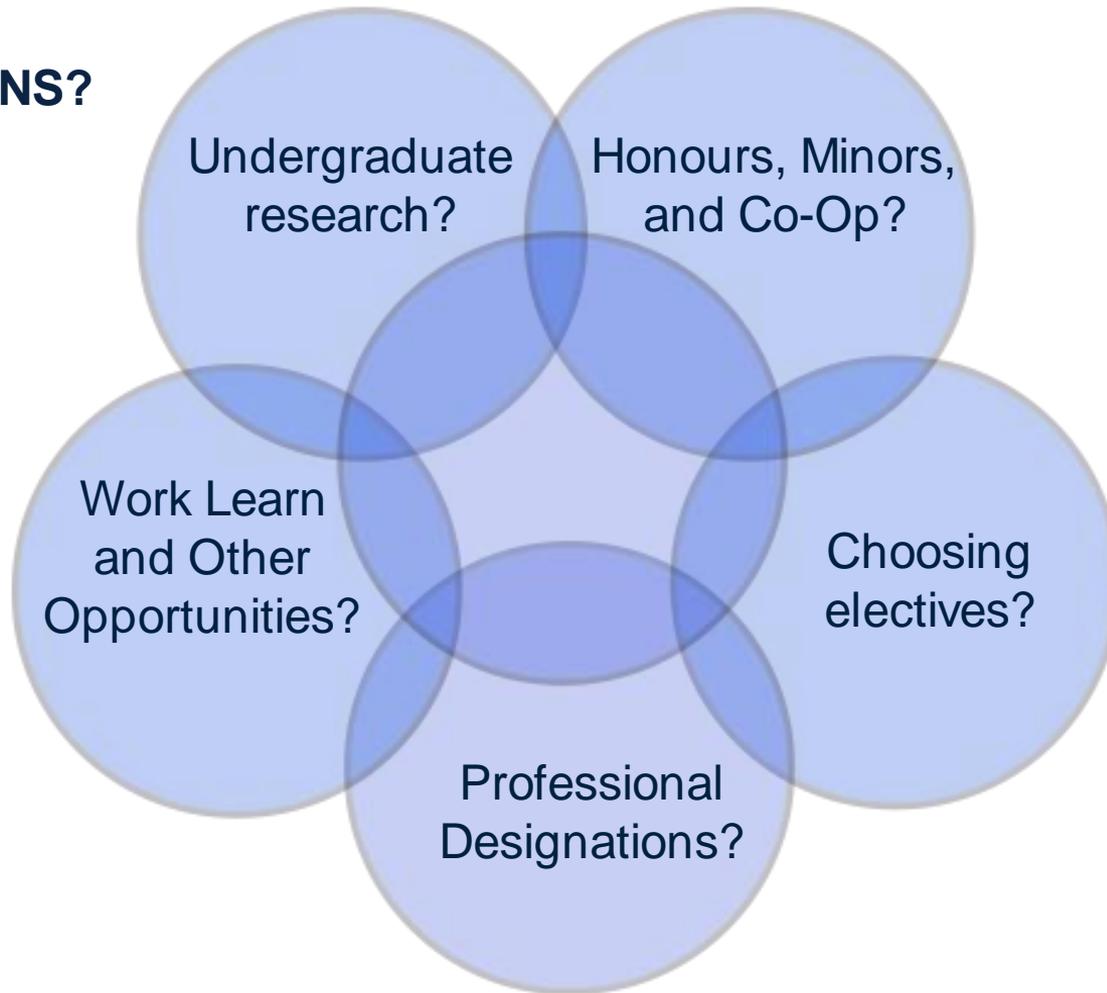


# GET INVOLVED

- Volunteer
- Join a club
- Undergraduate research
- Work learn



## QUESTIONS?



# THANK YOU FOR COMING

CONNECT WITH US: [APBI.ADVISING@UBC.CA](mailto:APBI.ADVISING@UBC.CA)

