UBC Vancouver

ACADEMIC CALENDAR

2018/19

www.calendar.ubc.ca/vancouver
The Faculty of Land and Food Systems

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Introduction

Faculty of Land and Food Systems

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The Faculty of Land and Food Systems is a world leader in integrated research, education and service that addresses critical global issues around sustainable agriculture, food safety and quality, and food, nutrition and health. To that end, the Faculty initiatives foster and support research excellence, innovative active learning environments to educate new generations of professionals, strong community connections, and global and local collaborations.

Admission

Application for admission to the Faculty of Land and Food Systems must be made through Enrolment Services. Procedures, policies, and admission requirements for the University of British Columbia and the Faculty of Land and Food Systems are specified in the Admissions (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,27,0,0#151) section of the UBC Academic Calendar.

Admission from Secondary School

Admissibility is determined on the basis of a number of factors including performance in specific high school courses, the overall academic rigor of the program, evidence of relevant learning and achievements both in and out of school, and other indicators of suitability for the Bachelor of Science programs offered through the Faculty of Land and Food Systems at UBC.

Admission as a Post-Secondary Transfer Student or With a Previous Degree

Students applying to the Faculty of Land and Food Systems by transfer from other post-secondary institutions or with a previous degree should note that, as per the University’s policy on Requirements to Receive a Degree or Diploma (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,40,0#19), they will be required to complete at least 50% of their program’s required course load while registered in their LFS program.
No more than 60 credits of transfer credits will be applied to a student's UBC academic record, and credit will be assigned as follows:

- For post-secondary transfer students, transfer credit from other post-secondary institutions will be assessed by the UBC Undergraduate Admissions Office at the point of admission and in accordance with articulation agreements between UBC and other post-secondary institutions.

Please note, not all transfer credit is necessarily applicable to a students’ degree program. As such, when students present in excess of 60 transfer credits, the Faculty will determine which 60 credits are most applicable to the degree program. Students can learn more at Maximum Allowable Transfer Credit (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,2,25,74,0#141).

Transfer applicants to the Faculty of Land and Food Systems must also present the required high school academic pre-requisites, as listed in Admission (http://www.calendar.ubc.ca/vancouver/proof/edit/index.cfm?tree=2,0,0,0). In some cases, university transferable coursework may satisfy these pre-requisites. These courses are critical to degree progression within the Faculty.

Students admitted to the Faculty of Land and Food Systems by transfer from other post-secondary institutions must have met the Communication Requirement of the Faculty or be eligible to enrol in first-year English at the time of admission. Students who do not meet the Communication Requirement at the time of admission should be aware that their registration may be blocked or restricted and they will not be promoted to higher year levels until this requirement has been met. See the Faculty’s promotion rules here.

Students admitted by transfer will be admitted to the year level that is appropriate according to the Faculty’s Promotion Requirement. The Promotion Requirements are based on the number of credits completed, and the degree of completion of required courses of the student's program.

**UBC Langara Aboriginal Transfer Partnership**

To be eligible to transfer to UBC into the Faculty of Land Food Systems through this partnership (http://transfer.aboriginal.ubc.ca/admissions/), Aboriginal students must meet the general requirements for admission as a post-secondary transfer student (http://you.ubc.ca/applying-ubc/university-college-transfer/) as well as the following specific requirements:

- Successful completion of at least 48 (and no more than 60) credits (within the last four years). Students who present at least 54 credits, and have completed all first-year requirements (with the exception of LFS 100), may be eligible for third-year standing;
- An academic average of at least 2.67\(^1\) or greater on the most recent 30 credits of transferable courses attempted, including failed and retaken courses;
- Completion of required high school academic pre-requisites. In some cases, university transferable coursework may satisfy these pre-requisites;
- Successful completion of the Transition Plan offered by Langara in collaboration with UBC;
- Consultation with the LFS Academic Advisor, Aboriginal Students (http://www.landfood.ubc.ca/academics/undergraduate/prospective-students/?login) on course selection while at Langara.

Applicants who do not meet these requirements may be considered for admission as a transfer student (http://you.ubc.ca/applying-ubc/university-college-transfer/) and can be considered through UBC’s Aboriginal Admissions Policy (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,14,0#14261).

For more information about the UBC Langara Aboriginal Transfer Partnership, please visit the website (http://transfer.aboriginal.ubc.ca/admissions/).

\(^1\)If in a particular year the competitive admission criteria is lower than 2.67, then the applicants in that year will be evaluated against the lower admission criteria.
Students Applying to LFS from Another Program at UBC

Students who are currently enrolled in another program at UBC and wish to transfer in to a program in the Faculty of Land and Food Systems must complete the ‘Change of Degree Program/Campus’ application available through their Student Service Centre (SSC). Students applying for admission from another UBC program are subject to the requirements noted above under "Admission as a Post-Secondary Transfer Student or With a Previous Degree."

Details can be found here (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,303,0,0#19133). Applications must be received by May 15.

Students Applying for Readmission

Students who have previously attended the Faculty of Land and Food Systems, left in good academic standing, have been away from their studies for more than one academic year and wish to return to their previous program of study should consult the Readmission (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,273,0,0#13984) section of the UBC Academic Calendar for details.

Students who have previously attended the Faculty of Land and Food Systems, left in good academic standing and have been away for one academic year or less, and wish to return to their previous program of study may do so without re-application. Students should consult the Academic Leave (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,289,0,0#16993) section of the UBC Academic Calendar.

Students who have previously attended the Faculty of Land and Food Systems, and were required to discontinue from the Faculty or withdraw from the University and wish to return to their previous program of study should consult the Faculty’s Guidelines for Readmission.

Students with questions about their status should consult with LFS Student Services (http://www.landfood.ubc.ca/academics/undergraduate/), prior to submitting an application.

Advising Office

The Faculty of Land and Food Systems Academic Advising Office (Student Services) is located in Room 344, MacMillan Building, 2357 Main Mall. The office can be reached by telephone at 604.822.2620 or by email at students@landfood.ubc.ca. For office hours, please visit us online (http://www.landfood.ubc.ca/academics/undergraduate/).

Email is the preferred means for the Faculty of Land and Food Systems administration and faculty members to communicate important messages to students. It is the responsibility of all LFS students to ensure their current email address is accurately recorded (http://www.students.ubc.ca/enrolment/records/change-personal-information) on the Student Service Centre (SSC) and to read emails sent to that account on a regular basis.

Registration and Program Approval

First-Year Students

Students are not required to select a program major until they register for their second year. Students planning to apply to second-year admission degree programs are still required to follow the course requirements for the program to which they were originally admitted. Students not meeting the minimum academic standing required for compulsory courses in a given program may
be required to withdraw from that program.

Credit/D/Fail

UBC permits students to take a limited number of percentage-graded electives as Credit/D/Fail (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,42,910,0#18786). In the Faculty of Land and Food Systems, students are permitted to opt for Credit/D/Fail for only those courses designated as unrestricted electives. It is the students’ responsibility to be mindful of their degree requirements and possible future implications before selecting this option for a course. Selecting Credit/D/Fail may impact students’ eligibility for awards, scholarships or financial support. In addition, professional programs or graduate schools may not allow pre-requisites to be completed through Credit/D/Fail. Students wishing to complete a course through Credit/D/Fail are strongly encouraged to contact their Program Advisor or LFS Student Services prior to registration.

Academic Regulations

Academic Regulations > Attendance and Examinations

1. Attendance

Regular attendance is expected of students in all their classes. Students who neglect their academic work and assignments may be excluded from the final examination. Students who are unavoidably absent because of illness, disability or unforeseen circumstances should report to their instructors or LFS Student Services as soon as possible. When appropriate, academic concession may be granted in accordance with the University’s policy found here (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,48,0,0#255).

2. Examinations

Students who are absent from examinations because of illness must submit a certificate obtained from a physician as soon as possible to the LFS Student Services Office. If injury or illness did not cause the absence, an explanation of the circumstances should be provided to the Student Services Office. Requests for special consideration should be made in accordance with the University guidelines (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,48,0,0#255).

Formal written examinations are normally required at the end of all courses and also in December for two-term courses. These are scheduled during the official examination periods at term end. Enrolment Services schedules these examinations and makes the information available to students through the Student Services Website (http://students.ubc.ca/enrolment/exams/exam-schedule) part way through the term. Students are expected to make travel plans after their last scheduled examination. In some courses passing the final examination is a requirement for passing the course but may not in itself be sufficient to pass. Students may be denied a passing grade for unsatisfactory work during the session or if their essays, reports, or examinations are notably deficient in English. Also, in any course which involves both laboratory work and written examinations, students must complete and pass both parts to pass the course.

Academic Regulations > Year Promotion and Academic Standing

Year Promotion

Students will be promoted according to the following criteria:

- to second year: successful completion of 24 or more credits of prescribed first-year courses.
- to third year: successful completion of 54 or more credits, and all the required first-year courses. Students who do not meet
this requirement will not normally be permitted to enrol in third-year or higher level courses in the Faculty.

- to fourth year: successful completion of a total of 89 or more credits, including completion of all first- and second-year courses.

At the end of the academic Winter Session, any student who has not followed the courses required for their program of study may be classified as being in Program Deficiency, and may be required to withdraw regardless of their Academic Standing, as described below.

**Academic Standing**

There are three categories of Academic Standing: Good Academic Standing, Academic Probation, and Failed Year Standing. The criteria for Academic Standing depends on the number of credits that a student is registered in during the Winter Session (September to April). Academic standing evaluations are called "Sessional Evaluations," and are completed at the conclusion of each Winter Session.

**A. Good Academic Standing**

To achieve Good Academic Standing, students must meet one of the following:

- If registered in 15 or more credits: pass a minimum of 60% of credits attempted and have a sessional average of 60% or greater.
- If registered in fewer than 15 credits: pass a minimum of 50% of credits attempted and have a sessional average of 60% or greater.

**B. Academic Probation**

Students will be placed on Academic Probation when one of the following conditions is met:

- If registered in 15 or more credits: pass a minimum of 60% of credits attempted and have a sessional average between 50% and 59.9% or;
- If registered in 15 or more credits: pass a minimum of 60% of credits attempted and have failed more than 6 credits or;
- If registered in fewer than 15 credits: pass a minimum of 50% of credits attempted and have a sessional average between 50% and 59.9% or;
- If registered in fewer than 15 credits: pass a minimum of 50% of credits attempted and have failed more than 6 credits or;
- If re-admitted to the Faculty after having been required to withdraw.

**C. Failed Year**

Students will be assigned Failed Year Standing when one of the following conditions is met:

- Their sessional average falls below 50% or;
- If registered in 15 or more credits: have not passed a minimum of 60% of attempted credits and have a sessional average between 50% and 59.9% or;
- If registered in fewer than 15 credits: have not passed a minimum of 50% of attempted credits and have a sessional average between 50% and 59.9%.

A student who is assigned Failed Year Standing may be required to discontinue from the Faculty for a period of at least one academic year, after which an application for readmission (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=2,273,0,0#13984) will be considered. See below for "LFS Guidelines for
If students present two or more years of Failed Year Standing, they may be required to permanently withdraw from the University.

LFS Guidelines for Readmission

Students who have been required to discontinue from the Faculty are permitted to apply for readmission only after successfully completing 30 transferable credits in another program offering courses transferable to UBC. This program must be applicable to the student's degree program.

Readmission is not guaranteed, but students are advised to achieve at least 60% ("C") on these 30 credits with no failures to be competitive for readmission. Normally, a student with Failed Year Standing will not be eligible for direct admission to another UBC program, and will be required to complete these 30 credits at another post-secondary institution.

Students should also consult the communication they receive from the Faculty of Land and Food Systems for additional requirements, and familiarize themselves with the University’s readmission guidelines.

Academic Regulations > Credit Load, Withdrawals and Academic Leave

1. Credit Load

Students interested in taking more than the recommended credits (per term or per session) for their Major should consult with LFS Student Services; this is not normally permitted. First-year students especially should note that taking more than the recommended number of credits per term may make the transition to university studies more difficult than necessary.

As per Campus-wide Policies and Regulations (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,47,0,0#254), students are not permitted to take courses for academic credit at other post-secondary institutions concurrently with their program in the Faculty without receiving prior consent from the Director, LFS Student Services. The Faculty is not obligated to grant transfer credit for students who do not receive permission in advance of attempting courses elsewhere.

2. Withdrawal

A student who decides to withdraw from a course should refer to Change of Registration (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,45,98,0#240).

A student who decides to withdraw from the University should refer to Withdrawal (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,46,102,0#251).

3. Academic Leave

Students in good academic standing after a Winter Session are normally eligible to register in the following Summer and Winter Sessions but may choose instead to take an Academic Leave (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,3289,0,0#169) of up to one academic year. In this case, students will retain eligibility to register in the next Winter Session. If away for more than one academic year, however, students must apply for readmission through Enrolment Services. Published deadlines (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,295,0,0#18955) will apply. Academic Leave is not an opportunity to take courses elsewhere.
Academic Leave will apply. Academic Leave is not an opportunity to take courses toward the students’ UBC degree at another institution. A student who wishes to study at another institution must consult with LFS Student Services in advance to determine whether or not they are eligible for a Letter of Permission. Students with student loans or scholarships are advised to consult with an Enrolment Services Professional before taking a leave, as there may be financial implications.

Academic Regulations > Requirements to Graduate

Requirements to Graduate from the Faculty of Land and Food Systems

In addition to the Campus-Wide Policies and Regulations for Requirements to Receive a Degree or Diploma (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,40,0,0#19) from UBC, LFS students must present a minimum of 45 upper-level (300- and/or 400-level) credits to meet graduation requirements. Most students will fulfill this requirement through the completion of their prescribed degree requirements, but it is the students’ responsibility to ensure this minimum upper-level credit requirement is met.

Academic Regulations > Communication Requirement

Graduates from the Faculty of Land and Food Systems are expected to collaborate and communicate effectively and professionally as members of diverse stakeholder teams. To develop this competency, students in the Faculty must complete LFS 150 or ENGL 112, SCIE 113, WRDS 150, ENGL 100, APSC 176, Science One, Arts One or Coordinated Arts can also be used to satisfy this requirement. These credits may not be earned through Credit/D/Fail standing. All students admitted to the Faculty of Land and Food Systems must take immediate steps to satisfy the Communication Requirement.

Satisfactory completion of the Language Proficiency Index Requirement for First-Year English (LPI) examination or exemption (http://www.english.ubc.ca/ugrad/1styear/faq.htm#1) is prerequisite to LFS 150 (score of 4 or greater on the LPI essay section required) and all first-year English courses at UBC (score of 5 or greater on the LPI essay section required). Students who have not successfully completed the LPI Requirement by the time they have completed 30 credits will normally have access to registration for the following academic session blocked, and may be prevented from taking additional courses in their program until the LPI Requirement has been met. Students unable to enrol in a first-year ENGL course because of an unsatisfactory LPI score are advised to take a non-credit writing course through the UBC Writing Centre (http://cstudies.ubc.ca/about-us/program-units/writing-centre).

Students admitted to the Faculty of Land and Food Systems on transfer from another post-secondary institution and receiving 3 or 6 credits of first-year English at UBC, may be permitted to meet the Communication Requirement if a minimum grade of 70% is achieved. Students who complete the International Baccalaureate program or Advanced Placement courses and are awarded 6 credits of first-year English by UBC Undergraduate Admissions have met the Communication Requirement. Students with questions about the completion of this requirement are encouraged to contact LFS Student Services.

Students who have not completed the Communication Requirement by the time they have completed 54 credits will normally have access to registration for the following academic session blocked, and may be prevented from taking additional courses in their program until the Communication Requirement has been met.

Opportunities to engage in, and improve reading, writing and oral communication exist in all courses.

Student performance on written work in all courses within the Faculty of Land and Food Systems may be evaluated in part on grammar and syntax.

Academic Regulations > Dean's Honour List
Students with a standing of A- or better in the previous Winter Session will receive the notation "Dean's Honour List" on their records. A program of at least 27 approved credits must have been completed during the session to receive this designation.

**Academic Regulations > Honours Standing**

Upon graduation, Honours Standing will be granted to those students who have averaged A- or higher in the best 45 credits of courses, which are selected by the program concentration, and which meet the requirements of third and fourth years.

**Academic Regulations > Part-time Students**

Students wishing to take less than a full course load should consult the appropriate Program Advisor or Student Services before registering. Some evening and distance education classes are available.

**B.Sc. in Agroecology**

**B.Sc. in Agroecology > Introduction**

The Bachelor of Science in Agroecology is no longer offered. Students interested in these areas of study are referred to the Bachelor of Science in Applied Biology program.

Agroecology is the science of applying ecological concepts and principles to the design and management of sustainable agroecosystems. This discipline brings together the elements of agricultural sciences, ecology, and environmental thought and is influenced by the experiences of people who manage land and water to produce food and other products. The Agroecology program is committed to providing an agricultural education that integrates disciplinary knowledge within a framework of ecological principles. It provides students with the flexibility to tailor their learning experiences to prepare for a wide range of careers with varying specializations, including animal studies, pre-veterinary medicine, horticulture, soils and environment, resource economics, and sustainable agriculture.

**B.Sc. in Agroecology > Advising Office**

The Bachelor of Science in Agroecology is no longer offered. Students interested in these areas of study are referred to the Bachelor of Science in Applied Biology program.

See the Advising Office.

**B.Sc. in Agroecology > Admission**

The Bachelor of Science in Agroecology is no longer offered. Students interested in these areas of study are referred to the Bachelor of Science in Applied Biology program.

This program is no longer admitting new students. Please refer to the B.Sc. in Applied Biology.

**B.Sc. in Agroecology > Degree Requirements**
The Bachelor of Science in Agroecology is no longer offered. Students interested in these areas of study are referred to the Bachelor of Science in Applied Biology program.

A minimum of 121 credits is required for the B.Sc. Agroecology Program. All students are required to take the following common core of 64 credits of coursework. The remaining credits depend on the student's program option. In third and fourth years, students must complete at least 12 credits of Agroecology (AGRO) courses numbered 300 or higher, in addition to AGRO core courses.

### B.Sc. Agroecology

#### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AGSC 100</td>
<td>1</td>
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<tr>
<td>ENGL 112</td>
<td>3</td>
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<tr>
<td>BIOL 112/121</td>
<td>6</td>
</tr>
<tr>
<td>BIOL 140</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 121/123 (111/113)</td>
<td>8</td>
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<tr>
<td>MATH 102/103 or equivalent²</td>
<td>6</td>
</tr>
<tr>
<td>Physics first year³,⁴</td>
<td>3</td>
</tr>
<tr>
<td>Elective⁴</td>
<td>3</td>
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<tr>
<td><strong>Total Credits</strong></td>
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#### Second Year

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<tr>
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<tr>
<td>AGSC 252</td>
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</tr>
<tr>
<td>AGRO 260</td>
<td>6</td>
</tr>
<tr>
<td>ECON 101 or 102⁵</td>
<td>3</td>
</tr>
<tr>
<td><strong>Concentration requirements and electives³,⁵,⁶</strong></td>
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</tr>
<tr>
<td><strong>Total Credits</strong></td>
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#### Third Year

<table>
<thead>
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<tbody>
<tr>
<td>AGSC 350</td>
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<tr>
<td>AGRO 360</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 361</td>
<td>3</td>
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<tr>
<td><strong>Concentration requirements and electives³,⁶</strong></td>
<td><strong>21</strong></td>
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<tr>
<td><strong>Total Credits</strong></td>
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#### Fourth Year

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
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<td>AGSC 450</td>
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<tr>
<td>AGRO 460</td>
<td>3</td>
</tr>
<tr>
<td>AGRO 461</td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Year Experience⁷</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td><strong>Concentration requirements and electives³,⁶</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

#### Overall four-year total

| Credits | 122 |

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¹ CHEM 111 is not for students with Chemistry 12.

² Students who have not completed Calculus 12 should take MATH 180 or 184 plus either MATH 103 or 105, to fulfill their first-year math requirement.

³ Pre-veterinary students are required to take PHYS 101 and 102 or PHYS 107 and 108, and MICB 202. In third and fourth years, pre-veterinary students follow an Animal Studies program.
Students in Resource Economics concentration take ECON 101 and ECON 102.

Students in Resource Economics concentration take ECON 301 and ECON 302.

Students in Agroecology may pursue their area of special interest in one of five options. The selection of all electives must be made in consultation with a Program Advisor.

At the beginning of their third year, Agroecology students will choose one of the following courses for their Fourth Year Experience: AGRO 497 (2-6), AGRO 499 (6), AGSC 496 (3/6), GRS 497B (3-6). Students in the Resource Economics stream have the option to substitute 6 credits of concentration requirements and electives for the Fourth Year Experience.

General Agroecology

Students taking this option select courses to meet their interests, in consultation with a Program Advisor.

Animal Studies

In second year, students are required to take BIOL 200 and 201, CHEM 205, 233, and 235. In third and fourth year, students are required to take AGRO 311, 312, FNH 350.

Horticulture

In second year, students are required to take BIOL 200 and 201, CHEM 205, 233, and 235. In third and fourth year, AGRO 322, 420, 421, and 423 are required, and one of AGRO 326, 327, 328.

Resource Economics

In second year, students are required to take ECON 301 and 302, and one of FRE 302, 306, or 340. In third and fourth year, students are required to take ECON 371 and 472, FRE 302, and 374, and one of 306 or 340.

Soils and Environment

In second year, students are required to take AGRO 244, GEOG 103, CHEM 205, and either PHYS 102 or 122. In third and fourth year, students are required to take AGRO 342, 401, 402, and 403 as restricted electives.

Pre-Veterinary Students

The Western College of Veterinary Medicine (W.C.V.M.) was established at the University of Saskatchewan to serve the four western provinces. A pre-veterinary course of study is required in preparation for admission to the four-year veterinary program at the W.C.V.M., and may be completed at UBC in the Faculty of Land and Food Systems.

The course requirements for admission to W.C.V.M. are 6 credits each of English, biology, biochemistry, chemistry, physics, and mathematics; 3 credits each of genetics, organic chemistry, and introductory microbiology; and additional electives to complete 60 credits.

Applicants without significant animal and veterinary experience are rarely successful in being admitted to W.C.V.M. For information and program approval, contact the Academic Advising Office.

B.Sc. in Applied Biology (APBI)
B.Sc. in Applied Biology (APBI) > Introduction

Students in the Applied Biology program explore the real-world application of the life sciences to the management of land, plants, animals and food production. The program emphasizes critical thinking, practical involvement, and a systems approach that integrates technical knowledge with sustainability and ethics. The program equips graduates with the skills and knowledge to become leaders in sustainable food production and the responsible use of natural resources.

1The Bachelor of Science in Applied Biology (offered by the Faculty of Land and Food Systems) is distinct from both the Bachelor of Applied Science and the Bachelor of Science degrees.

B.Sc. in Applied Biology (APBI) > Advising Office

See the Academic Advising Office.

B.Sc. in Applied Biology (APBI) > Admission

Students may gain admission directly from secondary school or transfer from a recognized university or college with a minimum of 24 credits, or as mature students. For admission to the Bachelor of Science in Applied Biology, students should consult the Faculty’s Admission section (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,793,0).

B.Sc. in Applied Biology (APBI) > Academic Regulations


B.Sc. in Applied Biology (APBI) > Applied Animal Biology Major

Applied Animal Biology Major

Applied Animal Biology is intended for students who want to study and/or work with animals. It 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. It offers training in research skills needed for graduate work, and (with appropriate selection of courses) prepares students for admission to veterinary and human medicine. Students have various options to gain practical experience on farms and in laboratories, animal shelters and wildlife rehabilitation centres.

Degree Requirements

<table>
<thead>
<tr>
<th>First Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LFS 100</td>
<td>1</td>
</tr>
<tr>
<td>LFS 150 or ENGL 112</td>
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</tr>
<tr>
<td>BIOL 112 &amp; 121</td>
<td>6</td>
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<tr>
<td>BIOL 140</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 121 (or 111)¹</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 123 (or 113)</td>
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</tr>
</tbody>
</table>

¹The Bachelor of Science in Applied Biology (offered by the Faculty of Land and Food Systems) is distinct from both the Bachelor of Applied Science and the Bachelor of Science degrees.
together agricultural sciences, ecology, and environmental thought to provide the background to issues surrounding the food, other agricultural products, and ecological services. Students can tailor their learning experiences to specific interests including resource economics, conservation, integrated agri-ecosystem management, water policy and water-related areas of study. Students can gain hands-on experience of the Centre for Sustainable Food Systems at UBC Farm. Degree Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 140</td>
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<td>BIOL 140</td>
<td>2</td>
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<tr>
<td>CHEM 121 or 111</td>
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<tr>
<td>CHEM 123 or 113</td>
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<tr>
<td>MATH 102 or equivalent2</td>
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Second Year | Total Credits |
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<tbody>
<tr>
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<td>LFS 250</td>
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<td>APBI 200</td>
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<td>BIOL 210 or APBI 210</td>
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<tr>
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<td>Total Credits</td>
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Third Year | Total Credits |
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Fourth Year | Total Credits |
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</thead>
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</tr>
<tr>
<td>Unrestricted elective</td>
<td>6</td>
</tr>
<tr>
<td>Total Credits</td>
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</tr>
</tbody>
</table>

Overall four-year total3

1 CHEM 111 is not for students with Chemistry 12.
2 Students who have completed Calculus 13 must take MATH 182 or 184 to fulfill their first year MATH requirement.
3 Students who have completed Calculus 13 must take MATH 182 or 184 to fulfill their first year MATH requirement.
ECON 101 or 102
3
LFS 250
6
LFS 252 (or FRST 231 or BIOL 300)
3
APBI 200
3
APBI 260
6
Restricted electives
6
Unrestricted electives
3
Total Credits
30

Third Year
LFS 350
3
APBI 360 & 361
7
Restricted electives
3
Unrestricted electives
3
Total Credits
31

Fourth Year
LFS 450
3
APBI 460
3
Restricted electives
3
Unrestricted electives
3
Total Credits
30

Overall four-year total
123

1 Students who have not completed Calculus 12 must take MATH 180 or 184 to fulfill their first year MATH requirement.
2 Some students may be advised to take first year Chemistry and/or Physics courses depending on their academic plans and interests. They should consult with an FENV advisor.
3 To be selected in consultation with a program advisor. Typically includes courses in APBI, BIOL and FNH. For suggested courses see the Faculty (http://www.landfood.ubc.ca/academics/undergraduate/apbi/environmental-sciences/)
4 A minimum of 45 credits of the 123 credits required for the Major must be from courses numbered 300 or higher.

Last updated: May 7, 2018

B.Sc. in Applied Biology (APBI) > Sustainable Agriculture and Environment Major

The Sustainable Agriculture and Environment major 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. Students can tailor their learning experiences to specific interests in agricultural production, integrated agro-ecosystem management, plant science, or soil science. A core resource of the program is the Centre for Sustainable Food Systems at the UBC Farm where students gain hands-on experience within a diverse managed landscape.

Degree Requirements

First Year
LFS 100
1
LFS 150 or ENGL 112
3
BIOL 112 & 121
6
BIOL 140
2
CHEM 121 (or 111)
4
CHEM 123
4
MATH 102 or equivalent
3
PHYS 101, 107 or 117
3
Restricted electives
3
Unrestricted elective
3
Total Credits
32

Second Year
LFS 250
3
LFS 252 (or FRST 231 or BIOL 300 or STAT 200)
3
APBI 200
3
APBI 210
4
APBI 244
3
APBI 260
6
BIOL 200
3
Restricted electives
3
Total Credits
31

Third Year
LFS 350
3
APBI 327 or APBI 328
3 or 4
APBI 351
3
APBI 360
3
ECON 310
3
Restricted electives
9
Unrestricted elective
3
Total Credits
30 or 31

Fourth Year
APBI 402
3
APBI 460 or LFS 450
3
Restricted electives
18
Unrestricted elective
6
Total Credits
30

Overall four-year total
123 or 124

1 Note CHEM 111 is not for students with Chemistry 12.
2 Students who have not completed Calculus 12 must take MATH 180 or 184 to fulfill their first year Math requirement.
Students may present more than the required total credits depending on electives selected.

Non-UBC students must apply online through Enrolment Services to enter the B.Sc. (FNH) program in UBC's Faculty of Land and Food Systems (LFS). External applicants are encouraged to contact LFS Student Services in advance of applying to ensure they have met admission requirements.

Dietetics Major

The main purpose of the interview is to assess oral communication skills (ability to convey information clearly and effectively), as strong oral communication is critical to practitioners in the field. A student's ability to express their thoughts and ideas clearly, as well as their ability to listen and understand others, is important in the field of dietetics. During the interview, the interviewer will ask questions to assess the candidate's knowledge of the profession, their understanding of the role of dietetics, and their ability to articulate their thoughts and ideas effectively.

The interview is conducted in person or via video conference, and the student is asked to present themselves in a professional manner. The interview assesses factors such as: 

- critical thinking skills (ability to analyze and evaluate information, and to make informed decisions)
- initiative/self-directedness (ability to independently initiate activities, seek new opportunities)
- leadership (ability to lead and inspire others)
- professionalism (ability to maintain a professional demeanor)
- time management skills (ability to effectively manage time and meet deadlines)
- written and oral communication skills (ability to communicate effectively in written and verbal formats)

The interview is conducted by a panel of faculty members and is typically conducted at the end of the application process. The interview is used to assess an applicant's interest in and suitability for the profession of dietetics. For more details, refer to the current Information Package (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,795,0) and Commerce (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,909,0).

Application

The annual application deadline is January 31 for September admission. All application components must be received by this date. Students who do not meet the requirements for admission will receive a notification to that effect.

Required courses:

1. demonstrated their
2. perseverance (ability to function effectively despite discouragement and setbacks)
3. learning abilities (ability to learn quickly and independently, quest for knowledge)
4. dependability (ability to work with minimal supervision, be consistently dependable)
5. initiative/self-directedness (ability to independently initiate activities, seek new opportunities)
6. critical thinking skills (ability to analyze and evaluate information, and to make informed decisions)
7. decision-making skills (ability to make sound, timely decisions)
8. written and oral communication skills (ability to communicate effectively in written and verbal formats)
9. interpersonal skills (ability to work effectively with others, build relationships)
10. intrapersonal skills (ability to understand oneself, manage emotions, and build resilience)

Applicants are admitted to the B.Sc. (FNH) program upon the basis of their performance in the interview. Interview scores are calculated and used to determine the final admissions score. The application components are weighted as follows:

- Academic Performance: 40%
- Cover letter/ resume: 25%
- Reference: 25%
- Interview: 30%

Applicants who meet the minimum admission criteria will be invited to participate in the interview process. The interview process is designed to assess an applicant's interest in and suitability for the profession of dietetics. The interview is used to assess an applicant's knowledge of the profession, their understanding of the role of dietetics, and their ability to articulate their thoughts and ideas effectively.

The interview is conducted in person or via video conference, and the student is asked to present themselves in a professional manner. The interview assesses factors such as: 

- critical thinking skills (ability to analyze and evaluate information, and to make informed decisions)
- initiative/self-directedness (ability to independently initiate activities, seek new opportunities)
- leadership (ability to lead and inspire others)
- professionalism (ability to maintain a professional demeanor)
- time management skills (ability to effectively manage time and meet deadlines)
- written and oral communication skills (ability to communicate effectively in written and verbal formats)

The interview is conducted by a panel of faculty members and is typically conducted at the end of the application process. The interview is used to assess an applicant's interest in and suitability for the profession of dietetics. For more details, refer to the current Information Package (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,795,0) and Commerce (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,909,0).

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- leadership (ability to lead and inspire others)
- professionalism (ability to maintain a professional demeanor)
- time management skills (ability to effectively manage time and meet deadlines)
- written and oral communication skills (ability to communicate effectively in written and verbal formats)

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prerequisite course requirements.

- Current UBC students who are not already enrolled in the B.Sc. (FNH) program must apply online through Enrolment Services to enter the program. In the event of an unsuccessful application, students in good standing have the ability to remain in their original program/faculty.
- All applicants must submit a paper Dietetics Major application package to the Faculty (prepared using forms and guidelines available online [http://dietetics.landfood.ubc.ca/prospective-students/how-to-apply/]). Each application package must include:
  - completed application form
  - transcripts (as required)
  - cover letter
  - resume
  - two completed reference forms in sealed envelopes
  - the Integrated Dietetics Program Application Fee (as listed here [Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,795,874]). Each application package must also meet the following program-specific advancement requirements: they must pass all courses, maintain an academic average at or above the minimum required level (70%) and achieve a minimum level of academic performance (68%) in each 300- and 400-level FNH course. The program reserves the right to require a student to change majors if they are not meeting these criteria.
- A currently full-time registered student in the Integrated Dietetics Program may apply for a part-time dietetic internship, with the approval of the program director, for a maximum of two semesters (Fall/Winter) during the fifth year of study.
- The Dietetics program, an Annual Dietetics Internship Fee (as listed here [Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=11,206,1218909]). Each application package must also meet the following program requirements.
- A criminal record check conducted according to Criminal Record Check Review Act procedures (Faculty to share application procedures at the time of admission; all program offers are considered conditional pending receipt of a satisfactory criminal record check).
- UBC student accident insurance [http://rms.ubc.ca/insurance/insurance-programs/student-insurance-optional/], required for each year of program enrollment.
- FoodSafe I certificate (prior to taking FNH 441).
- FoodSafe II certificate (prior to taking FNH 440).
- Proof of health authority-required immunizations, based on a review by UBC Student Health Service (prior to taking FNH 481).
- Respiratory mask fit testing (prior to taking FNH 481).
- Any other requirements established by placement agencies or UBC.

B.Sc. in Food, Nutrition, and Health > Food Market Analysis Major

Students admitted to the Dietetics Major, all students are required to abide by program-specific policies and maintain a good academic standing ([http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,156,735,974]). Students must also meet the following program-specific advancement requirements: they must pass all courses, maintain an academic average of or above the minimum for entry into the program (70%) and achieve a minimum level of academic performance (68%) in each 300- and 400-level FNH course. The program reserves the right to require a student to change majors if they are not meeting these criteria/Dietetics Major.

For current details.

Last updated: May 7, 2018

The Faculty of Land and Food Systems

2018/19 Vancouver Calendar

The Faculty of Land and Food Systems

Prerequisites:

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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BECC 302</td>
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<tr>
<td>FNH 340</td>
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<td>FNH 341</td>
<td>3</td>
</tr>
<tr>
<td>FNH 350</td>
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</tr>
<tr>
<td>FNH 351</td>
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</tr>
<tr>
<td>FNH 370</td>
<td>3</td>
</tr>
<tr>
<td>FNH 371</td>
<td>3</td>
</tr>
<tr>
<td>FNH 380</td>
<td>3</td>
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<tr>
<td>FNH 381</td>
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<td>FNH 382</td>
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<td>LFS 150</td>
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Social Science

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Food Market Analysis Major

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<td>FNH 482</td>
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<td>FNH 483</td>
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Food Market Analysis Major

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Total Credits

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<td>FNH 482</td>
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<td>FNH 483</td>
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<tr>
<td>Total Credits</td>
<td>12</td>
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</table>

Offered in: Fall/Winter

1. Offered in May.
2. Course that addresses normal human behaviour in a North American context. List of acceptable courses is posted on the Dietetics Major website ([http://dietetics.landfood.ubc.ca/prospective-students/how-to-apply/]).

3. Restricted electives are to be chosen from a list of approved electives ([http://dietetics.landfood.ubc.ca/current-students/restricted-electives/]) posted on the Dietetics Major website ([http://dietetics.landfood.ubc.ca/]), or by consultation with a Program Advisor.

4. FNH 481, 482, and 483 involve full-time internship placements at BC healthcare facilities between September and June.

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This document was generated on 8 Jun 2018 at 10:41 AM.
The Food and Nutritional Sciences Double Major provides students with the opportunity to build a solid foundation in both Food Science and Nutritional Sciences. Integration of the knowledge in these two complementary areas allows students to develop a better understanding of the principles of food sciences with respect to the manufacture, preservation, and quality of food products and the role of food and nutritional science in the development of healthy foods for healthy living.

The Food and Nutritional Sciences Double Major provides students with the opportunity to build a solid foundation in both Food Science and Nutritional Sciences. Integration of the knowledge in these two complementary areas allows students to develop a better understanding of the principles of food sciences with respect to the manufacture, preservation, and quality of food products and the role of food and nutritional science in the development of healthy foods for healthy living.

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Admission to the Food and Nutritional Sciences Double Major is based on a minimum academic standing of 70%, calculated based on the best 21 credits per year of post-secondary courses required in this program. The student must have completed ENGL 112 or equivalent. Elective courses and LFS 100, LFS 250, LFS 350, or LFS 450 are not included in the calculation.

To apply for admission after second year, the student should have completed at least 48 credits of listed first- and second-year courses (or their equivalent). Admission after third year or a subsequent year will be considered on a case-by-case basis. Meeting the minimum requirements for application to the major does not guarantee admission. Students who are not accepted into the major or do not maintain the required average would be eligible to complete the FNH general major, or select another program if appropriate.

Admission after third year or a subsequent year will be considered on a case-by-case basis. Meeting the minimum requirements for application to the major does not guarantee admission. Students who are not accepted into the major or do not maintain the required average would be eligible to complete the FNH general major, or select another program if appropriate.

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**Bachelor of Science in Food, Nutrition, and Health > Food and Nutritional Sciences Double Major**

<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Third Year</td>
<td></td>
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</tr>
<tr>
<td>LFS 250</td>
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<td>CHEM 233</td>
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<td>FINE 205 or ECON 301</td>
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<td>FINE 340</td>
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<tr>
<td>Unrestricted elective</td>
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<tbody>
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<td></td>
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<tr>
<td>LFS 350</td>
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<td>FNH elective</td>
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<td></td>
</tr>
<tr>
<td>FINE 274 or ECON 371</td>
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<td>One of FINE 302, FINE 340, FINE 385 or ECON 325</td>
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<td>Economics or Commerce elective</td>
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<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
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<tr>
<td>Total Credits</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

- 1 CHEM 111 is not for students with Chemistry 12.
- 2 Students who have not completed Calculus 12 should take MATH 150 or 154, plus either MATH 103 or 105, to fulfill their first-year mathematics requirement.
- 3 Students should review prerequisites for third-year FNH courses listed in footnote 4 (e.g., PHYS 101 FNH 300). One of MATH 200, 217, or 226 is recommended for students contemplating graduate studies or a special interest in quantitative/empirical analysis.
- 4 Select from: FNH 300, FNH 301, FNH 302, FNH 303, FNH 309, FNH 313, FNH 330, FNH 335, FNH 340, FNH 342, FNH 355, FNH 402, FNH 413, FNH 415.
- 5 Students contemplating graduate studies or with a special interest in quantitative/empirical analysis should select ECON 305.
- 6 Choose from COMM/COMR 329, 398, 457, 458, 465, 473, 493 (Note: COMM/COMR 457 is prerequisite for COMM/COMR 458, 465, 473, 493); any other FINE courses; and any 300- or 400-level economics courses. Students contemplating graduate studies or with a special interest in quantitative/empirical analysis should select ECON 305.
- 7 Select from: FNH 300, 340, 374, 385, 402, 420, 460, 465, 493.

Last updated: May 7, 2018
### B.Sc. in Food, Nutrition, and Health > Food Science Major

Food Science is a discipline encompassing food chemistry, food microbiology, physical, sensory, and nutritional properties of food, and food process science with respect to the manufacture, preservation, quality assurance, and development of food products. Students wishing to specialize in or concentrate on certain areas should consult the program advisor.

#### Admission

The first two years of the Food Science major are comprised of the standard core of the FNH program. Students may apply after completing at least 24 credits of the listed first-year courses (or their equivalent). The annual application date is March 31 for September admission. Application information is available on-line (http://www.landfood.ubc.ca/undergraduate/programs/fnh/food-science).

To apply for admission after second year, the student should have completed at least 48 credits of listed first- and second-year courses (or their equivalent).

Admission to the Food Science major is based on two components:

- **Academic Performance (85% of Admission Score):** Admission to the Food Science major is based on a minimum academic standing of 70%, calculated based on the best 21 credits per year of post-secondary courses required in this program. The student must have completed ENGL 112 or equivalent. Elective courses and LFS 100, LFS 250, LFS 350, or LFS 450 are not included in this calculation.

- **Letter of Intent (15% of Admission Score):** The student must submit a 500 word (maximum) Letter of Intent which addresses: a) why the student wishes to enroll in the Food Science major; b) the student’s career aspirations; c) any personal, volunteer, or work experience that demonstrates the student’s interest in food and/or nutrition, and; d) for students who have taken less than 24 credits per year, a brief explanation of why.

Admission after third year or a subsequent year will be considered on a case-by-case basis. Meeting the minimum requirements for application to the major does not guarantee admission. Students admitted to the Major will be required to maintain an average of at least 70% in required courses in each year, to remain in the program. Students who are not accepted into the major or do not maintain the required average would be eligible to complete the FNH general major, or select another program if appropriate.

#### Courses

<table>
<thead>
<tr>
<th>First Year</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFS 100</td>
<td>1</td>
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<tr>
<td>LFS 150 or ENGL 112</td>
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<td>CHEM 123 (or 113)</td>
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<td>MATH 100 &amp; 102 or equivalent</td>
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<td>FNH 200</td>
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<td>MCB 202</td>
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</table>
The Food, Nutrition, and Health (FNH) Major offers students the flexibility to tailor the program to reflect specific interests in food, nutrition, and health without the specialization depth afforded by the other majors. With suitable course selections, students may be prepared to enter the Home Economics Teacher Education Program at UBC once they have completed this major, a program that prepares graduates for employment opportunities in secondary schools as Home Economics teachers.

B.Sc. in Food, Nutrition, and Health > Food, Nutrition, and Health Major

<table>
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<tbody>
<tr>
<td>LFS 100</td>
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<td>Restricted electives^7</td>
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<td>FNH 320</td>
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<td>FNH 351</td>
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| Overall four-year total credits | 104 |

^1 Equivalent courses include BIOL 153, CAPS 201
^2 CHEM 111 is not for students with Chemistry 12.
^3 Students who have not completed Calculus 12 should take MATH 100 or 104, plus either MATH 103 or 105 to fulfill their first year Math requirement.
^4 Equivalent courses include BIOL 300, GPHY 402, FRST 231, STAT 200.
^5 Equivalent courses include BIOL 201, BIOC 202, BIOC 203
^6 Equivalent courses include BIOL 301, BIOL 302, BIOC 203
^7 To be selected in consultation with a program advisor. For suggested courses see the list (http://www.landfood.ubc.ca/undergraduate/restricted-elective-food-science-and-fnh-majors) posted on the Faculty website.
^8 A minimum of 45 credits of the 123 credits required for the Major must be for courses numbered 300 or higher.
B.Sc. in Food, Nutrition, and Health > International Nutrition Major

**Nutritional Sciences Major**

**International Nutrition Major**

The International Nutrition Major provides a strong foundation in human nutrition. All students take the same core, but students may use their elective courses to focus on an area of interest such as basic nutritional sciences, population and public health nutrition, and international nutrition.

Graduates of the Nutritional Sciences Major can pursue advanced degrees or work in research related to health sciences, nutrition, and in public and private organizations related to health promotion.

**Admission**

Students are admitted to the Major in Year Three. The Major involves two full-time years of study, including an international nutrition field studies course (FNH 460) that requires students to relocate for a minimum of 12 weeks.

Students may complete 12 credits of the nutritional sciences courses (FNH 200, FNH 250, CHEM 233, CHEM 235, BIOL 200, BIOL 201, restricted electives (6 credits), etc.) in the Year Three of their study. Students must complete a minimum of 12 credits of the nutritional sciences courses (FNH 200, FNH 250, CHEM 233, CHEM 235, BIOL 200, BIOL 201, restricted electives (6 credits), etc.) in the Year Three of their study.

Students who have completed Calculus 12 should take MATH 100 or 104, plus either MATH 103 or 105 to fulfill their first-year math requirement.

Students wishing to take FEEE courses, ECON 204, 205, 217, or 218 should take ECON 111 and ECOY 101 as their non-science or restricted electives.

Students admitted to the International Nutrition Major must complete a minimum of 12 credits of the nutritional sciences courses (FNH 200, FNH 250, CHEM 233, CHEM 235, BIOL 200, BIOL 201, restricted electives (6 credits), etc.) in the Year Three of their study.

To be eligible for the Major, students must have completed at least 60 credits by April 30 of the year in which they are applying. This must include the following pre-requisites (or their equivalents): LFS 100 (1), LFS 150 (3) or ENGL 112 (3), MATH 120/121 (2), CHEM 111/113 (2), CHEM 121 (2), BIOL 121 (3), FNH 200 (3), FNH 250 (3), CHEM 233 (3), CHEM 235 (3), BIOC 203 (3), BIOC 207 (3); restricted electives (9). CHEM 111/113 are not for students with CHEM 121.

**Application Procedures**

Non-UBC students must apply online by January 31 through Enrolment Services to enter the B.Sc. (FNH) Program in UBC's Faculty of Land and Food Systems (LFS). External applicants are encouraged to contact LFS Student Services (http://inmajor.landfood.ubc.ca/admissions/) for more information regarding potential funding.

To cover administrative costs of the Major, advising, pre-departure workshops, and post-departure debriefing sessions, a one-time administrative fee, listed under Program and Course Fees (Calendar page: Program Costs), is required. Students are responsible for ensuring that they have met all prerequisites for deepened restricted electives.

A list of restricted electives is available on the Faculty website (http://www.landfood.ubc.ca/undergraduate/restricted-electives). Students must consult the Program Coordinator for International Nutrition to propose other restricted electives. For local restricted electives, see the Faculty website (http://www.landfood.ubc.ca/undergraduate/restricted-electives). Students are responsible for ensuring that they have met all prerequisites for the Major.

**Academic Performance**

A minimum academic standing of 70% is required for eligibility to the Major. Achieving this minimum, however, does not guarantee admission.

**Non-academic Component**

The objective of the interview is to assess communication skills, qualifications, and preparedness for the Major. The admissions committee will consider student eligibility for placements with current partner organizations. The interview will be conducted in person or via telephone or Skype.

To be eligible for the Major, students must have completed Calculus 12 and have met all pre-requisites (or their equivalent): LFS 100 (1), LFS 150 (3) or ENGL 112 (3), MATH 120/121 (2), CHEM 111/113 (2), CHEM 121 (2), BIOL 121 (3), FNH 200 (3), FNH 250 (3), CHEM 233 (3), CHEM 235 (3), BIOC 203 (3), BIOC 207 (3); restricted electives (9).

Students wishing to take SOCI 301A, 302A, 360B, 361A, 430, or 383B should take SOCI 100 as their non-science or restricted electives.

Students wishing to take ANTH 330, 360, 407, 425 or 429 should take ANTH 100 as their non-science or restricted electives.

Students wishing to take BIOC 404, 405, 406, 407 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.

Students wishing to take BIOC 408, 409, 410, 411, 412, 413 should take BIOC 301 as their non-science or restricted electives.
MATH 103 3
PHYS 101 3
Total Credits 3

Second Year
LFS 250 6
LFS 252 3
FNH 250 3
CHEM 233 3
CHEM 235 3
CHEM 205 3
BIOC 230 3
BIOC 201 3
BIOC 234 3
Total Credits 31

Third Year
LFS 350 3
BIOC 302 3
FNH 350 3
FNH 351 3
FNH 370 3
FNH 358 3
MICB 302 3
Unrestricted electives 3
Restricted electives 3
Total Credits 30

Fourth Year
FNH 451 3
FNH 477 3
ECON 310 or LFS 101 3
Unrestricted electives 12
Restricted electives 3
Total Credits 30

Overall four-year total credits 124

1 Equivalent courses include BIOC 153, CAPS 301
2 CHEM 111 is not for students with Chemistry 12.
3 Students who have not completed Calculus 12 should take MATH 180 or 184 to fulfill their first-year MATH requirement.
4 Equivalent courses include PHYS 107 or 117. Students without credit for Physics 12 must take PHYS 100 before taking other 100-level PHYS courses.
5 Equivalent courses include BIOC 300, EPSE 482, FRST 231, STAT 200
6 Equivalent courses include BIOC 201, BIOC 202, BIOC 203
7 For suggested course see the list (http://www.landfood.ubc.ca/academic/undergraduates/unrestricted-electives/) posted on the Faculty website
8 A minimum of 45 credits required for the Major must be for courses numbered 300 or higher.

B.Sc. in Food, Nutrition, and Health > Dual Degree Program in Food, Nutrition and Health and Education

The Dual Degree Program in Food, Nutrition and Health and Education offers qualified students the opportunity to earn a B.Sc. (Food, Nutrition and Health) and a B.Ed. (Secondary) in five Winter Sessions with some academic requirements in Term 1 of the Summer Sessions. After completing all of the requirements, students are normally eligible for a British Columbia Professional Teaching Certificate.

Admission

Admission to the Dual Degree Program requires application to the Land and Food Systems Student Services Office by January 31 of second year with approval by April in order to undertake a teaching practicum at the end of second year.

Application for admission to the program is made through the Land and Food Systems website (http://landfood.ubc.ca) by January 31 of second year and must receive approval from the Faculties of Land and Food Systems and Education. All students will initially be accepted on a provisional basis. Admission will be confirmed only after successful completion of year two and successful completion of the in-school practicum in May following second year. A criminal records check is required of all teacher candidates admitted to the B.Ed. program.

Admission at any time is conditional; maintenance of good academic standing and an average of at least 65% in each session are required throughout. Students who do not maintain a 65% average will be required to withdraw from Education, but may continue with the Food, Nutrition and Health major if their average is 50.0% or higher. In addition, students must participate in volunteer or work experience with youth aged 13-18 to meet the requirements of the Bachelor of Education program. Students must satisfy all of the degree and specialization requirements for both the Food, Nutrition and Health major in the B.Sc. Food, Nutrition and Health and the B.Ed. Secondary program. Some individual courses may be considered to satisfy requirements for both degrees.

Students must communicate with an advisor in the Food, Nutrition and Health Program and the Teacher Education Office annually after admission to the program to discuss their progress.

The Dual Degree Program is not open to students with a previous degree.
### Second Year (Winter)
- **LFS 250**
- **FNH 200**
- **FNH 250**
- **CHEM 223**
- **CHEM 235**
- **BIOL 200**
- **SOEG 200 or SOEG 240**
- **ENGL 110, 120 or 121**
- **BIOL 201**
- **Total Credits** 31

### Second Year (Summer)
- **EDUC 319**
- **Total Credits** 1

### Third Year (Winter)
- **LFS 350**
- **FNH 340**
- **FNH 341**
- **FNH 342**
- **EDST 401**
- **LLED 300**
- **EPSE 317**
- **Restricted electives\(^4\)**
- **Total credits** 30

### Third Year (Summer)
- **EDUC 399**
- **Total Credits** 1

### Fourth Year (Winter)
- **EDCP 491**
- **EPSE 308**
- **FNH 315**
- **FNH 350**
- **FNH 351**
- **FNH 403**
- **Health electives\(^7\)**
- **Restricted electives\(^6\)**
- **Total Credits** 33

### Fourth Year (Summer)
- **EDST 403**
- **EDST 404**
- **EDUC 440**
- **LLED 301**
- **Unrestricted Electives**
- **Total Credits** 11

### Fifth Year (Winter)
- **EDUC 315**
- **EDUC 421**
- **EDUC 430**
- **EDUC 435**
- **EPSE 310**
- **EPSE 311**
- **EDCP 391**
- **EDCP 492, 493, 494 or 498 (or alternate as advised)**
- **Total Credits** 31

### Fifth Year (Summer)
- **EDUC 452**
- **Total Credits** 3

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**Minimum Credits for Dual Degree**: 174

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\(^1\) Equivalent courses include BIOL 153, CAPS 301

\(^2\) CHEM 111 is not for students with Chemistry 12.

\(^3\) Students who have not completed Calculus 12 should take MATH 180 or 184.

\(^4\) Equivalent courses include BIOL 300, EPSE 482, FRST 231, STAT 200.

\(^5\) Equivalent courses include BIOL 201, BIOC 240, BIOC 243

\(^6\) To be selected in consultation with a program advisor. Must include 18 credits of approved family studies and/or clothing and textiles courses at the 300 or 400 level.

\(^7\) To be selected in consultation with a program advisor. For suggested courses see the list (http://www.landfood.ubc.ca/academic/undergraduate/restricted-electives/) posted on the Faculty website.
B.Sc. in Food and Resource Economics (FRE)

Introduction

This program is pending final approval by the Ministry of Advanced Education.

The B.Sc. in Food and Resource Economics (FRE) allows students to critically analyze a wide range of economic issues in food supply chains, including the resource and environmental impacts of food production. The program consists of interdisciplinary courses in land and food systems, math and empirical methods courses, restricted elective courses, primarily in economics and business, and unrestricted elective. Students with an interest in agri-business and resource management can choose the Food and Resource Management stream, or apply for the Master of Management Dual Degree Program Option. Students who complete the B.Sc. (FRE) program are well suited to pursue graduate studies within the Faculty of Food and Resource Economics (UBC), the School of Public Policy and Global Affairs (UBC) and various applied economics M.Sc. programs outside of UBC.

Students can specialize or mix-and-match from the three topic areas:

- Food Markets and Trade
- Land, Resources and Environment
- Food and Resource Management

Advising Office

This program is pending final approval by the Ministry of Advanced Education.

See the Academic Advising Office (http://www.calendar.ubc.ca/vancouver/proof/edit/index.cfm?tree=12,194,793,0#10175).

Admission

This program is pending final approval by the Ministry of Advanced Education.

Students can apply to the Food and Resource Economics program after completing 24 credits of post-secondary level courses, including LFS 150 or ENGL 100-level (see note 1 below), MATH 104 (see note 2 below), ECON 101 and either MATH 105 (see note 2 below) or ECON 102.

To be considered, students are required to have a minimum academic standing of at least 70% (or 2.80 on a 4-point scale). Achievement of this minimum, however, does not guarantee admission. Due to receipt of many more qualified applicants than there are spaces available in most programs, a higher average is often required.

To help assess suitability students must submit with their application a 500 word (maximum) Letter of Intent which addresses the following: a) why the student wishes to enroll in the Food and Resource Economics program; b) the student's professional aspirations; and c) any relevant personal, volunteer, or work experience. The letter of intent is to be submitted to the Faculty of Land and Food Systems Student Services at the time of application (instructions are provided at http://www.landfood.ubc.ca/academics/undergraduate/ug-admissions/).

While not required, students interested in applying to the Bachelor of Science in Food and Resource Economics are strongly encouraged to follow the first-year requirements of the Food and Resource Economics Degree.

Degree Requirements and Program Options

This program is pending final approval by the Ministry of Advanced Education.

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<th>Degree Requirements</th>
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<tr>
<td><strong>First Year</strong></td>
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<td>ECON 101 &amp; 102</td>
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<td>ECON 301 and three of ECON 221, 234, 255, 320, 339, 340, 360, 365</td>
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<tr>
<td><strong>Fourth Year</strong></td>
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<td><strong>Overall 4 Year Total Credits</strong></td>
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B.Sc. in Global Resource Systems

B.Sc. in Global Resource Systems > Introduction

The Bachelor of Science in Global Resource Systems program recognizes that resource problems are complex and require solutions that are global and interdisciplinary in scope, and draw on a range of skills. It offers a comprehensive and flexible undergraduate degree program in which students are given the opportunity to customize their degree by selecting both a resource area and region of the world to focus their studies.

Students are eligible to apply to the Bachelor of Science in Global Resource Systems undergraduate program after completing first-year. They can begin the program at the beginning of second year or third year. In third and fourth years, students pursue a double major, a resource specialization, and a regional specialization.

For the resource specialization, students focus on one discipline or choose courses from different disciplines that relate to a resource theme. Options include, but are not limited to: environment, food and resource economics, First Nations resource systems, food security, global health, and nutrition, horticulture, human ecology, international development, and sustainable agriculture.

For the regional specialization, students choose Africa, Asia Pacific, Europe, or the Americas. Within the regional specialization, the program requires a relevant language other than English, a relevant international experience, and relevant coursework. The international experience requirement is met through a period of learning in the region via academic exchange, field study, or work-based learning (internships).

B.Sc. in Global Resource Systems > Advising Office

See the Academic Advising Office.

B.Sc. in Global Resource Systems > Admission

Students can apply to the GRS program after completing 24 credits of first-year university-level courses. To be considered, students are required to have a minimum academic standing of at least 75% (or 3.0 on a 4-point scale). Achievement of this minimum, however, does not guarantee admission. Admission is limited by the Faculty’s capability to accommodate students in this global program. Admission is based on grades, preparation, experiences, and commitment to a global education. When applying to GRS, students must submit a letter of intent (500 words or less) conforming to guidelines specified by GRS. The letter of intent is to be submitted to Enrolment Services at the time of application.

Students are advised to complete first-year requirements listed in Degree Requirements.

Transfer from the Environmental Studies Diploma, Langara College

Students who successfully complete the Environmental Studies Diploma program at Langara College, and gain admission to the Faculty of Land and Food Systems and the Global Resource Systems (GRS) undergraduate program, will receive transfer credit for 60 credits into the GRS program if they have:
1. satisfied first-year requirements of the GRS program in Biology, Chemistry, Economics, English, and Mathematics;
2. completed UBC course AGGC 250 or equivalent; and
3. completed 6 credits of language relevant to the regional specialization.

They will be able to finish the GRS program with the further 62 credits required.

B.Sc. in Global Resource Systems > Academic Regulations

Please see Academic Regulations (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,795,0).

B.Sc. in Global Resource Systems > Degree Requirements and Program Options

Bachelor of Science in Global Resource Systems

<table>
<thead>
<tr>
<th>First Year</th>
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<tbody>
<tr>
<td>LFS 100</td>
<td>1</td>
<td>1</td>
<td></td>
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<tr>
<td>BSSL 111/112 or 121</td>
<td>3</td>
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<tr>
<td>CHEM 121 (111)</td>
<td>4</td>
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<td>ECON 101 or LFS 101</td>
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<tr>
<td>LFS 150 or ENGL 300-level</td>
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<tr>
<td>Language</td>
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<tr>
<td>MATH 120, 152, 154, 155, 180, or 184</td>
<td>3-4</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Program Electives</td>
<td>9/8</td>
<td>9/8</td>
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<tr>
<td>Total Credits</td>
<td>32</td>
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<table>
<thead>
<tr>
<th>Second Year</th>
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<tbody>
<tr>
<td>LFS 250</td>
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<tr>
<td>LFS 252</td>
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<tr>
<td>GRS 255</td>
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<tr>
<td>Language</td>
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<td>6</td>
<td></td>
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<tr>
<td>Program Electives</td>
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<td>15/10</td>
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</tr>
<tr>
<td>Unrestricted Electives</td>
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<td></td>
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<tr>
<td>Total Credits</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
</tbody>
</table>
All courses must be acceptable for a B.A. major in the proposed subject area or field, although the student is not bound by other requirements of the Faculty of Arts.

An acceptable Arts Minor must comprise courses in the Faculty of Arts that are for credit toward a Bachelor of Arts degree and must consist of 18 upper-level credits in a single subject or field of specialization.

**Minor in Arts**

Continuation in a Minor requires that the student maintain Good Academic Standing. In addition, space in many courses is limited. Therefore, acceptance to a Minor does not guarantee access to courses agreed upon for the Minor. Where space in courses required for a Minor is limited, a student must be pre-approved by a program advisor.

Of the 18 credits required for the minor, a maximum of 6 can be double-counted towards the elective requirements of the major. Therefore students should be prepared to complete 12 credits in addition to those required of their major.

Application forms for minors may be obtained from the Land and Food Systems website (http://www.landfood.ubc.ca/undergraduate/programs/fnh) or a

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**Master of Management Dual Degree Program Option**

Interested students may apply for the Bachelor of Science (Global Resource Systems) – Master of Management Dual Degree Program Option. For details regarding this Dual Degree Program Option and application see the Faculty of Commerce and Business Administration section of the Academic Calendar.

**Minor Options**

Global Resource Systems students are eligible to apply for a Minor in Arts, Minor in Commerce or a Minor in Science.

**B.Sc. in Global Resource Systems > Credit/D/Fail**

Students in the Bachelor of Global Resource Systems program are permitted to take electives to satisfy degree requirements in compliance with the University’s Credit/D/Fail policy.

Courses selected for Credit/D/Fail cannot be used to satisfy Regional or Resource specialization requirements. See Credit/D/Fail Calendar (page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=3,42,910,0#18786).

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**Dual Degree and Minor Options**

**Master of Management Dual Degree Program Option**

This dual degree program option offers qualified students the opportunity to earn, in one year of study, an undergraduate degree from the Faculty of Land and Food Systems and a Master of Management degree from the Faculty of Commerce and Business Administration (also known as the Sauder School of Business). This dual degree program option can be completed in four and one half years through intensive study and scheduling that includes one summer following fourth year. The Business Career Centre in the Sauder School of Business will also provide extensive professional development and career preparation throughout the dual degree program option of study.

Due to the fixed scheduling requirements of the Dietetics Major, it is typically not possible for students in this major to do the Master of Management through the dual degree route.

Students admitted into this program can use COMM 120 (3), COMM 220 (2) towards their unrestricted elective requirement and COMM 320 (1.5), COMM 321 (1.5), COMM 420 (1.5), and COMM 421 (1.5) towards their restricted elective requirement.

Students who are in the Food Market Analysis Major as part of the Dual Degree Program Option cannot take COMM 326, COMM 340, COMM 457, COMM 458, COMM 465, COMM 473 or COMM 493, due to significant content overlap with the Masters of Management required courses.

Students admitted into this program can use COMM 120 (3), COMM 220 (3) towards their unrestricted elective requirement and COMM 320 (1.5), COMM 321 (1.5), and COMM 420 (1.5) towards their restricted elective requirement.

Students who are in the Food Market Analysis Major as part of the Dual Degree Program Option cannot take COMM 326, COMM 340, COMM 457, COMM 458, COMM 465, COMM 473 or COMM 493, due to significant content overlap with the Masters of Management required courses.

Students admitted into this program can use COMM 120 (3), COMM 220 (3) towards their unrestricted elective requirement and COMM 320 (1.5), COMM 321 (1.5), and COMM 420 (1.5) towards their restricted elective requirement.

Students who have not completed Calculus 12 should take MATH 180 or 184 to fulfill their first-year Math requirement.

**Minor Options**

The Faculty of Land and Food Systems offers several minor options for students. Some minors are restricted to specific programs. For details please refer to the minor specific content below. Enrolment in a Minor is limited to students eligible for third-year standing with an average of at least 68% in each of the previous two years. Meeting the stated minimum requirements does not guarantee admission into the Minor.

An acceptable Minor must consist of 18 upper-level credits. Students should design a coherent and academically sound course of studies for their Minor, which must be submitted at the time of application. For guidelines on appropriate course selection, please refer to the minor specific content below. Students with questions should consult with an Academic Advisor in LFS Student Services.

Application forms for minors may be obtained from the Land and Food Systems website (http://www.landfood.ubc.ca/undergraduate/programs/fnh). Completes applications must be submitted no later than March 31st of the students’ second year.

Of the 18 credits required for the minor, a maximum of 6 can be double-counted towards the elective requirements of the major. Therefore students should be prepared to complete 12 credits in addition to those required of their major.

Continuation in a Minor requires that the student maintain Good Academic Standing. In addition, space in many courses is limited. Admission to a Minor does not guarantee access to courses agreed upon for the Minor. Where space in courses required for a Minor is limited, a student must be pre-approved by a program advisor.

Students might encounter difficulty/filling the courses for their Minor into their program timetable; careful planning is essential, and completion of the Minor will usually require an additional period of study beyond four years.

**Minor in Arts**

An acceptable Arts Minor must comprise courses in the Faculty of Arts that are for credit toward a Bachelor of Arts degree and must consist of 18 upper-level credits in a single subject or field of specialization.

All courses must be acceptable for a B.A. major in the proposed subject area or field, although the student is not bound by other requirements of the Faculty of Arts.
Minor in Commerce

Students wanting a foundation in business management are encouraged to consider the Minor in Commerce. Enrollment in this minor is limited.

Meeting the stated minimum requirements does not guarantee admission into the Minor.

Due to the fixed scheduling requirements of the Dietitians Major, it is typically not possible for students in this major to do a Commerce Minor.

Due to the significant overlap in coursework, students in the Food Market Analysis Major are not normally permitted to complete a Commerce Minor.

Applicants must have successfully completed one of MATH 100, 102, 110, 120, 180, or 184 and one of ECON 101, LFS 101, ECON 310, and one of ECON 102, ECON 311. In addition, a statement of intent is required as part of the application.

The Minor will consist of COMM 329 (3), COMM 457 (3), COMM 458 (3), COMM 473 (3), COMM 493 (3), and one of COMM 360 (3) or COMM 458 (3) for a total of 18 credits.

Upon successful completion the notation “Minor in Commerce” will be on the student’s transcript.

Minor in Fermentations

Courses from both the UBC Vancouver and Okanagan campuses can be used to complete the Fermentations minor. Students interested in applying credits earned at the Okanagan campus to Vancouver campus programs should be aware of the Requirements to Receive a Degree or Diploma on the Vancouver campus (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,202,320,157).

An acceptable minor must comprise:

- At least 3 credits of the following courses: FNH 415 (UBC Vancouver) or BIO 360 (UBC Okanagan)
- One of BIO 301 (UBC Vancouver) or BIO 282 (UBC Okanagan)
- At least 6 credits of the following courses: FNH 335, CHEM 311, BIOC 307 (UBC Okanagan)
- At least 6 credits from the following courses: BIO 322, CHEM 311, CHEM 312, FNH 335, FNH 411, FNH 412, APBI 442 from UBC Vancouver, BIO 316, BIO 362, BIO 480 from UBC Okanagan.

Upon successful completion of the Minor, the notation “Minor in Fermentations” will be on the student’s transcript.

Minor in Kinesiology

Only students enrolled in the Bachelor of Science in Food, Nutrition, and Health degree may undertake a Minor in Kinesiology. Enrollment in this minor is limited.

Due to the fixed scheduling requirements of the Dietetics Major, it is typically not possible for students in this major to do a Kinesiology Minor.

Admission to the minor is competitive and will be based on a cumulative grade-point average of 5A credits of required first- and second-year courses for the Bachelor of Science in Food, Nutrition, and Health degree.

The Kinesiology Minor will consist of 18 credits selected from the following:

- At least 6 credits of KIN 202, 203, 204, 205, 206, 207, 208, 209, 210, 325, 326, 327, 329, 335, 341, 342, 343, 344, 345, 346, 347, and 348.

Students who wish to pursue a minor in Kinesiology should be aware of the 300-level prerequisites for 400-level Kinesiology courses. 100- and 200-level prerequisites for KIN courses may be waived for students taking the minor; however, students are required to take either BIO 155, BIOL 153, CAPS 301 or KIN 190 and 191 in lieu of the KIN course prerequisites. Space is very limited in the Kinesiology courses.

Upon successful completion of this minor, the notation “Minor in Kinesiology” will be on the student’s transcript.

Minor in Science

An acceptable Science Minor must comprise courses in the Faculty of Science that are for credit towards a Bachelor of Science degree and consist of at least 18 credits numbered 200 or higher in a single subject (see Biochemistry, Chemistry, Environmental Sciences, and Oceanography Minor listings for exceptions).

Upon successful completion of the Minor, the notation “Minor in Science” will be on the student’s transcript.
The Land One program is limited to direct-entry students in their first-year of study in either the Bachelor of Science in Applied Biology or the Bachelor of Science in Food, Nutrition and Health. Students must be admitted to LFS in order to be eligible for the Land One cohort option. Students interested in applying to the program, please consult the following link for information on applying to the Faculty of Land and Food Systems at UBC. As Land One integrates five courses, in addition to the Faculty’s admission requirements, students must meet the pre-requisites of these courses as listed below (or the equivalent in the students’ home curriculum):

- FRST/LFS 121: Biology 11 or 12, or FRST 111
- MATH 102: High-school calculus and one of (a) a grade of 66% or higher in BC Principles of Mathematics 12 or Pre-calculus 12, or (b) a satisfactory score in the UBC Mathematics Basic Skills Test.
- FRST/LFS 150: First-year level of LS 253.
- FRST/LFS 150: Completion of LFS 110, an academic profile or LS 253.
- FRST/LFS 150: Total of 60 semesters.

Students must submit a separate application for the Land One program, via an online application by May 31. Students are required to submit a Letter of Intent (500 word maximum) addressing why they would like to join Land One.

Additional information about the Land One cohort option and the application process are available on the Land One website (http://landone.ubc.ca).

Co-operative Education Program

Co-operative Education is a process of education which integrates academic study with relevant, supervised and paid work experience in co-operating employer organizations.

An optional Co-operative Education Program is available for students in all Land and Food Systems programs, with the exception of students in the Bachelor of Science in Food, Nutrition and Health. The Program is intended to help prepare interested and qualified students for career within the private or public sectors with at least four work terms (i.e. each work term is normally 8 months long) supervised by qualified professionals. Faculty advisors or Co-op Coordinators also conduct site visits at the student’s work place and provide advice and support for the placement.

To be eligible, students must be in at least second year of an undergraduate program in the Faculty of Land and Food Systems (other than the Direct-Major). Admission is by application to the Co-operative Education Office. Selection of students will be based on academic performance and general suitability to the work environment as determined by the Co-op intake interview. The total enrollment will be subject to the availability of appropriate work placements. The work placements are arranged by mutual agreement between students and employing organizations. Participating students register for LFS 358, 399, 499, or 499A as appropriate, and pay the Co-operative Education program fee per course and Co-op Workshops fee as listed under Program, Course and Faculty Fees (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,793,0). Graduation in the Co-operative Education Program for Land and Food Systems requires a student to complete LFS 358, 399, 499, 499A, and 499B, in addition to the normal academic requirements.

Exchange Programs

Formal exchange programs facilitate the exchange of undergraduate students with other universities in Canada and abroad. These exchanges allow students to experience a different cultural and academic life, and receive credit for courses successfully completed. Undergraduate students normally in their first year of studies are eligible to spend a semester or two on exchange. Graduate students are also eligible. Interested students should see Go Global (http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,793,0) for further information.

Canadian Exchange Programs

Opportunities for student exchanges at Canadian universities exist at McGill University, University of Toronto and Université de Montréal. Opportunities also exist at University of Guelph, which has an exchange agreement with the Faculty.

International Exchanges

Go Global (Calendar page: http://www.calendar.ubc.ca/vancouver/index.cfm?tree=12,194,793,0) offers eligible students the opportunity to spend one or two semesters at a variety of partner universities throughout the world, including the University of California, University of Melbourne and Queensland University (Australia), University of Auckland (New Zealand), University of Copenhagen (Denmark), Wageningen University (Netherlands) and Swedish Agricultural University.

BC Institute of Agrologists

Agrology is the profession of applying science and scientific principles to the business and art of agriculture. In British Columbia, agrology is recognized by the provincial statute of 1948, the BC Institute of Agrologists (BCIA) (http://www.bcia.com) is incorporated.

Admission is by application to the BCIA. A graduate of the Faculty holding a Bachelor of Science in Agrology, Bachelor of Science in Applied Biology, Bachelor of Science in Food, Nutrition, and Health, or a Bachelor of Science in Global Resource Systems meets the educational requirements for membership in the BCIA.

Dr. and Mrs. A. S. Dekaban Foundation

A foundation was established by Dr. and Mrs. A. S. Dekaban primarily to permit graduate students from the Polish agricultural and land based universities to the Faculty. The students are selected by the Polish agricultural universities. The students are selected by the Polish agricultural universities. The students are selected by the Polish agricultural universities. The students are selected by the Polish agricultural universities.

Academic Staff

Academic Staff > Applied Biology

Professors

T. A. Black, B.Sc. (Br.Col.), M.Sc., Ph.D. (Mcg.)
A. Feeley, B.Sc. (Br.Col.), M.Sc., Ph.D. (Mcg.)
D. Fraser, B.A. (Tor.), Ph.D. (Glas.)
M. S. Ijant, B.S. (Br.Col.), M.Sc. (Br.Col.), Ph.D. (Coll.)
R. Thompson, B.Sc. (Br.Col.), Ph.D. (Coll.), M.A. (Coll.)
F. K. Kupchyski, B.S. (Ag.) (L. N. Agric.), M.S. (Ag.) (L. N. Agric.), Ph.D. (Mich.), Ph.D. (Coll.), M.A. (Coll.)
D. von Keyworth, B.Sc. (Br.Col.), M.Sc. (Mcg.), Ph.D. (Br.Col.)

Professors Emeriti

T. M. Galant, B.S., M.F., Ph.D. (Mich.)
K. M. Chang, B.Sc.(Forestry.), M.S. (Br.Col.), Ph.D. (Mich.)
C. Kerkevort, B.S. (Br.Col.), Ph.D. (Br.Col.)
D. J. Myers, B.S. (Br.Col.), M.S. (Br.Col.), Ph.D. (Mich.)
S. Owen, M.Sc. (Br.Col.), Ph.D. (Mich.)
R. G. Ryan, B.S., M.S. (Br.Col.), Ph.D. (Mich.)
G. T. Stand, B.S. (Br.Col.), Ph.D. (Mich.)
E. J. Taylor, B.Sc., Ph.D. (Br.Col.)
The Faculty of Land and Food Systems

2018/19 Vancouver Calendar

Academic Staff > Food, Nutrition, and Health

Professor

R. R. Barcicki, B.Sc. (Ap.), M.A., Ph.D. (Chic.)

B. D. Kille, B.Sc., M.A., Ph.D. (Br. Col.)

J. J. Van Vuuren, B.Sc., M.Sc., Ph.D. (Clem.)

J. J. Vairavas, B.Sc., M.Sc., Ph.D. (Belf., Berkley)

J. F. Yaou, B.Sc., M.Sc., Ph.D. (Br. Col.)

Professor Emeriti

W. Arora, B.Sc., M.A., Ph.D. (Que.)

S. B. Bar, B.E., B.Tech. (Br. Col.), M.Eng. (Minn.)

R. Black, B.Sc. (Eng.), Ph.D. (Chic.), M.Sc. (Br. Col.), Ph.D. (Que.)

A. D. Doucette, B.SC. (McG.), M.Eng. (Ala.), Ph.D. (Br. Col.)

E. Li-Chan, B.Sc., M.Sc., Ph.D. (Mich.)

W. D. Poole, M.A. (Br. Col.), Ph.D. (Tor., Br. Col.)


D. S. Chapman, B.Sc., M.Sc., Ph.D. (Tor.)

Associate Professor

S. Gatz, M.S. (Wayned.)

K. Lu, B.Sc. (Ocean.), Ph.D. (Chic.)


Y. Meunier, B.Sc. (Mich.), M.S., Ph.D. (Mich.)

K. B. Rezai, B.Sc., M.Sc., Ph.D. (Ala.)

R. Willson, B.A. (Wash.), M.Sc., Ph.D. (Loma)

D. Yu, B.Sc. (Jiangsu), M.Sc., Ph.D. (Que.)

Associate Professor Emeriti

G. Kennedy, B.A. (Br. Col.), M.Sc., Ph.D. (Br. Col.)

B. J. Steur, B.Sc., M.Sc. (Agra.), Ph.D. (Br. Col.)

J. Brandstaetter, B.A. (Art.), B.Ed. (Q."

J. Vanderstep, B.S., M.A., Ph.D. (Br. Col.)

Affiliate Associate Professor

L. Newman, B.Sc., M.E.S., Ph.D. (Ohio, Va.)

Assistant Professor

K. Allen, B.Sc., M.Sc. (Que.)

J. Black, B.Sc. (tor.), M.Sc. (Mich.), Ph.D. (Br. Col.)

J. Foote, B.Sc. (Wash.), Ph.D. (Cf., S. Bar.)

C. Kemnitz, B.Sc. (Br. Col.), M.Sc., Ph.D. (Br. Col.)

Lamers, W.S., Ph.D. (B.R.)

R. Ronan, B.Sc. (Wash.), Ph.D. (Br. Col.)

S. Wing, B.Sc. (Pueblo), Ph.D. (Br. Col.)

Senior Instructor

W. L. Wos, B.Sc., Ph.D. (Q."

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