



nova scotia
agricultural
college

Science Applied to Life
101st Calendar
2006/2007

The Nova Scotia Agricultural College reserves the right to make changes to this Calendar without notice.

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Message from the Registrar

Welcome to the Nova Scotia Agricultural College (NSAC), where for over 100 years we have been educating and training talented and dedicated students like yourself. NSAC graduates have gone into scientific research, medicine, pharmacy, law, veterinary science, agrology, business and a hundred other respected and rewarding careers. There is no limit on where an NSAC education can take you.

Applied Education

NSAC is proud of its commitment to applied education and training in all of its programs, from science to business to agriculture to veterinary technology. Here you don't talk about

experiments, you put on your lab coat and get out the chemicals and chromatograph. You don't talk about how to run a business, you research the market, set up a model business and try to turn a profit. You don't talk about how to vaccinate a dog or cat, you protect an animal from a deadly disease by giving them a needle of vaccine. Applied. Not just hearing, but doing. That is the best way to learn.

Small Size And Welcoming Faculty And Staff

Twelve-to-one. That is the incredibly low ratio of students to faculty. It is so low that it guarantees your instructors will know your name and that you'll be able to actively participate in all of your classes, not just passively listen like you would at a larger university. It also means that your instructors will be able to adjust their teaching methods to your unique learning style, and if you need some extra help understanding a difficult concept it will be there for you. And since the NSAC strives to provide a warm and welcoming environment for all students, your instructors won't be the only ones who know your name. You might just walk into the Registry, Student Services or the Athletic Centre and be greeted by your first name.

Support Services

At NSAC, we work hard to deliver the support services that students like you need to be successful, both in and out of the classroom. Every single student is assigned an academic advisor, even before you get here. Our advisors are trained to assist students with the transition to university life and guide you throughout the academic process, whenever you need us. We also have a variety of other services such as peer tutoring, study skills programs, and health and career counselling. At NSAC we understand that you're more than just a student.

Research Intensity and its Benefit to Students

NSAC currently ranks number one in research intensity among Atlantic Canada's 16 universities, according to results recently released by Research Infosource Inc. in its Canada's Top 50 Research Universities List. Our faculty members are real-world researchers who are finding new and innovative solutions to some of the world's most troubling problems—like water quality, health and reproduction, and protecting the food supply—and they are bringing this research into their classrooms every day, further enriching the experience of NSAC students.

These are just some of the many reasons to join the NSAC family. Congratulations on making an excellent choice for your higher education.

Wayne Paquet
Registrar

Mission Statement

The Nova Scotia Agricultural College excels in education and the provision of new knowledge in agriculture, food, and the environment for the benefit of society.

Statement of Values

In support of their mission, the faculty and staff of the College espouse the following values:

Excellence

We seek to achieve excellence in all we do. Our evaluation of ourselves and our students should reflect this high standard. We seek continuous improvement in our teaching, research and

service and expect from our students, faculty and staff a dedication and commitment to these pursuits.

Leadership

We provide leadership in the pursuit of truth, innovation, and solutions to problems encountered by the agriculture and food industry and rural communities. We seek to provide our students with opportunities to develop leadership skills, wisdom, and independence.

Cooperation

We seek cooperation and partnership with industry representatives, government agencies, and other universities and colleges in Canada and around the world.

Accessibility

We strive to make our programs accessible to all.

Community

We are responsible for ensuring a safe, healthy, motivating environment for the entire College community. We also have a commitment to the wider human community to act with equity, charity, and responsibility both as an institution and as individuals comprising the institution.

Accountability

We cherish the ideals of academic freedom and individual rights while recognizing the importance of personal and professional integrity and accountability for our actions. We operate in a fiscally responsible manner with all funding groups.

Environmental Responsibility

We seek to act respectfully and responsibly towards the environment and to provide leadership in soil and water conservation.

Respect and Fairness

We are dedicated to our students and to their pursuit of skills and knowledge. We respect all persons without prejudice or discrimination. We respect the opinions of others and encourage open debate. We strive to deal fairly with all people.

2006/2007 Schedule of Dates

July 27, 2006	Open House
September 5, 2006	Student Services Orientation
September 6, 2006	Fall Registration and Academic Orientation
September 7, 2006	Classes Begin; Fall Semester Fees due
September 20, 2006	Last day to register for a course—Fall semester
October 9, 2006	Thanksgiving—No classes
October 20, 2006	Last day to drop a course without academic penalty

October 20, 2006	College Royal—No Classes in afternoon
October 21, 2006	Homecoming/Reunion Weekend
October 26, 2006	Autumn Assembly
November 13, 2006	In Honour of Remembrance Day—No Classes
November 17, 2006	Last day to apply for Drop Fail Status
December 1, 2006	Last day to apply to graduate from Master's program in May
December 1, 2006	Last day of classes (Fall semester)
December 4-12, 2006	Exams
December 15, 2006	Last day to apply to graduate from undergraduate or technical program in May
January 3, 2007	Classes begin; Winter Semester Fees due
January 16, 2007	Last day to register for a course—Winter semester
February 7, 2007	President's List Reception
February 14, 2007	Founding Day
February 16, 2007	Last day to drop a course without academic penalty
February 19-23, 2007	Mid-term Study Break
February 28, 2007	Last day to apply to the Veterinary Technology program
March 23, 2007	Last day to apply for Drop Fail Status
April 5, 2007	Last day of classes—Winter Semester
April 6, 2007	Good Friday—No Classes
April 9, 2007	Easter Monday—No Classes
April 10-18, 2007	Winter semester examinations
May 4, 2007	Convocation
June 30, 2007	Last day to cancel registration and residence application and receive refund
July 2, 2007	Last day to apply to graduate from Master's program in October.

General Information

Programs Offered

The Nova Scotia Agricultural College was formally opened in 1905 to assume and expand the work that for several years had been carried on by the School of Horticulture in Wolfville and the School of Agriculture in Truro. The College operates under the authority of an Act of the Legislature of Nova Scotia.

A wide range of programs is offered at NSAC, including:

- a four-year Bachelor of Science (Agriculture) program offered in association with Dalhousie University
- a two-year Master of Science program offered in association with Dalhousie University
- a two-year Engineering diploma program
- a two-year Pre-Veterinary Medicine program
- a two-year Bachelor of Technology program in Environmental Horticulture that requires prior completion of the NSAC Environmental Horticulture Technology program or a landscape-related program approved by the Department of Environmental Sciences
- a four-year Bachelor of Technology program in Applied Science
- a two-year Veterinary Technology Diploma program
- a two-year Environmental Horticulture Technology Diploma program
- a two-year Plant Science Technology Diploma program
- a two-year Enterprise Management Diploma program, with specializations in Dairy, Equine, Companion Animal, Farming and Food Retail
- a four-course Academic Certificate in Organic Agriculture.

Detailed information on these programs can be found in individual program sections in this calendar. Please consult the table of contents.

The NSAC reserves the right to make any necessary program revisions or additions.

International EXCHANGE PROGRAMs

NSAC is committed to being a leader in global food security. Opportunities are available for students to participate in this process by enhancing their global knowledge base and professional skill set. Students can participate in a variety of ways, from one week to one semester or one full academic year.

NSAC Formalized Student Exchanges

- One or two semesters abroad
- Tuition is paid at NSAC; Canadian students are eligible for Canada Student Loans
- Courses recognized for transfer credit by NSAC & partner institution
- Application deadlines are announced each semester via nsac.ca/international.

Norway Norwegian University of Life Sciences
Some courses taught in English: Norwegian not required. (Bursary available)

Finland Häme Polytechnique
Some courses taught in English: Finnish not required.

USA	Virginia Tech (<i>Bursary available: free travel and living stipend</i>)
	University of Iowa (<i>Bursary available: free travel and living stipend</i>)
Mexico	Universidad Autonoma de Baja California <i>Some Spanish language required (Bursary available: free travel and living stipend)</i>
	Institute Tecnico Agricola de Oaxaca <i>Some Spanish language required (Bursary available: free travel and living stipend)</i>
Canada	Université Laval <i>French language required</i>

NSAC Formalized Study Agreements

- One or two semesters abroad
- International student tuition fees apply; Canadian students are eligible for Canada Student Loans.
- Courses recognized for transfer credit by NSAC & partner institution.

Czech Republic	Czech University of Agriculture Prague
	<i>Some courses taught in English</i>
	Mendal University of Agriculture & Forestry
	<i>Some courses taught in English</i>

Korea	Cheonan Yonam College
	<i>Korean language skills required for study</i>
	Chungju National University
	<i>Korean language skills required for study</i>

Taiwan	National Chiayi University (Graduate Studies only)
	<i>Bursary available: tuition waived, living accommodation provided, free Mandarin language classes</i>

Thailand	King Mongkut's University of Technology Thonburi <i>Thai language skills required for study</i>
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International Course Credits

- One- to three-week course offerings where students travel abroad with NSAC faculty for the delivery of courses
- Tuition is paid at NSAC; Canadian students are eligible for Canada Student Loans
- Credit and non-credit options available

Cuba	Universidad de Cienfuegos
	Agro-Eco Tour

Jamaica	College of Agriculture, Science, & Education Food Systems in the Tropics
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Central Europe: Austria, Czech Republic, Hungary, Slovakia

Various university partners
Agricultural Systems of Central Europe

Other students can request consideration for credit, via a Letter of Permission, when participating in international study programs

For more information on international study, work, or internship opportunities for students, please contact NSAC International at www.nsac.ca/international.

Agricultural Colleges Exchange Program

This program provides an opportunity for technical students in several of the programs to enrol in another Canadian college for one semester of their second academic year. In this way they broaden their study program.

Other colleges participating with NSAC in this program are:

- Ontario Agricultural College, University of Guelph, Ontario
- Eastern College, Newfoundland & Labrador
- Olds College, Alberta
- Lakeland College, Vermilion Campus, Alberta
- University of Maine
- Writtle College, England

Arrangements may also be made for students who wish to complete a semester of study in Britain.

Students wishing to do a technical exchange program at another institution must have that program approved by the Registrar. The request should be submitted to the Registrar by the student's program advisor or the Department Head. Upon approval of the program, the student will be issued a Letter of Permission detailing which courses will be replaced in the student's program and which courses must be completed at the host institution. The programs must be laid out before the student leaves for the exchange institution.

Articulation Agreements

The NSAC works collaboratively with other universities to extend the educational experience of students by formalizing the study of a program at more than one educational institution.

2 + 2 FAFU/NSAC Program

Chinese students take the first two years of their B.Sc.(Agr.) from Fujian Agricultural and Forestry University (FAFU) and the final two years at NSAC.

NSAC/Brock Viticulture Program

Students study for one or two years at NSAC and then complete the Bachelor of Science in Oenology and Viticulture program at the University of Brock.

Professional Organizations for Agrologists and Engineers

Agrology is “the profession of applying science and scientific principles to the business and art of agriculture”. University graduates who are skilled in the science and business of agriculture are encouraged to join their provincial Institute of Agrologists. Provincial Institutes offer the opportunity to get to know and exchange ideas with other professional agrologists in the province and other parts of Canada through membership in the Agricultural Institute of Canada. Membership in an Institute of Agrologists provides an element of fellowship in the profession and the opportunity to attend scientific conferences and educational tours, and to receive newsletters and technical publications. Membership in an Institute is required by provincial statute to practice agrology in most provinces.

The practice of engineering in Canada is governed by independent and autonomous provincial and territorial associations of Professional Engineers, which serve as licensing bodies for the profession. Each association has been established under a Professional Engineering Act adopted by its provincial or territorial legislature. The Canadian Council of Professional Engineers (CCPE) is the national federation of those associations of Professional Engineers and assists them in coordinating and standardizing their work. One such standardization is the accreditation of all Canadian engineering programs to ensure that the academic content and teaching facilities are acceptable to allow graduates admission into all provincial and territorial associations.

Facilities

The Nova Scotia Agricultural College is located on a 165-hectare property at Bible Hill, a kilometre northeast of Truro, Nova Scotia. The College buildings—Cumming Hall, Harlow Institute, Banting Building, MacRae Library, Langille Athletic Centre, Collins Horticultural Building, Cox Institute of Agricultural Technology, Boulden Building, Hancock Veterinary Building, Haley Institute, the Dairy Building, MacMillan Show Centre, and a modern farm building complex—provide excellent teaching and research facilities, as well as offices and laboratories for faculty and staff and for some staff of the Nova Scotia Department of Agriculture. Fraser House, Trueman House, Chapman House, and Jenkins Hall provide excellent accommodation and dining facilities for male and female students.

E-mail Usage at NSAC

To improve communication at NSAC, e-mail is approved as one of the official means of communication for academic and administrative purposes, effective March 15, 2006. As with all official University communications, faculty, staff and students have a responsibility to ensure that e-mail is accessed, read, and acted upon in a timely fashion. Use of NSAC e-mail is bound by the guidelines set out in the official NSAC Code of Conduct, the NSAC Information Technology Services Policy, the NS Provincial Government e-mail policy and any relevant federal or provincial legislation.

Post Office Address

Nova Scotia Agricultural College
PO Box 550
Truro, NS B2N 5E3

Telephone

Registry Office: (902) 893-6722
Toll-free: 1-888-700-6722

Website

www.nsac.ca

College Colours

Royal blue and regular gold

Student Services

The Dean of Student Services is responsible for all non-classroom aspects of student life from initial acceptance to graduation. This includes areas such as residence and food services, medical/counselling services, career services, athletics and academic support services.

Athletics

Recreational activities. The Langille Athletic Centre provides an opportunity for students to choose a number of activities to enjoy during their leisure time. Racquetball, squash, and badminton are very popular racquet games. The spacious facility includes a power lifting room with free weights and a number of specific benches for the serious lifter. A fitness and muscle toning room contains individual weight machines, stair climbers, bikes, rowing machines, and other equipment for the individual who wants to maintain a level of fitness. Swimming, tennis, golf, and curling facilities are also available, off campus, to students during the academic year.

Intramural athletics. The intramural program includes competition in soccer, softball, volleyball, hockey, basketball, badminton, table tennis, racquetball, squash, flag football, and ultimate Frisbee.

Varsity athletics. NSAC is one of ten members in the Atlantic Colleges Athletic Association. Conference sports for both men and women include soccer, volleyball, and basketball. Winners from the ACAA advance to the national championships administered by the Canadian Colleges Athletic Association.

Also recognized as varsity teams are men's and women's woodsmen and rugby teams. Rugby teams compete with other postsecondary teams in the Maritimes. The woodsmen teams compete in Canadian Intercollegiate Lumberjacking Association (CILA) tournaments throughout the year against teams from New Brunswick, Quebec, Ontario, Maine, Vermont, and New York.

Career Services

The Nova Scotia Agricultural College provides facilities and personnel to assist graduates and undergraduates in obtaining part-time, summer, and permanent employment.

Career Services contacts representatives of the agricultural industry to arrange for on- and off-campus recruitment of student employees. Individual counselling related to career planning and employment information associated with agriculture is also available. Students are informed of employment opportunities, which are posted on bulletin boards at various locations on campus. General information on career planning, potential employers, and exchange programs is also available at Career Services.

Health Services

The clinic is located in the Dairy Building with weekday hours being maintained from mid-August to late June. Students are assisted with physical, emotional, and lifestyle issues. In that process, Peer Educators share current lifestyle and personal health advice with fellow students.

General health concerns and referrals to community specialists are also made through the Assistant Dean, Health Services. Physician-attended clinics are held weekly, and topical clinics held during each semester.

Residence and Food Services

Accommodation and dining facilities are available for up to 350 students in co-educational and single-sex arrangements. Three residences—Chapman, Fraser and Trueman—are equipped with private and shared accommodation, modern laundry facilities, mail delivery, and student lounge/games room. Each room is equipped with basic furnishings such as bed, mattress, desk, chair, closet, and drapes. Students are encouraged to develop their social and personal potential through participation in House Council, Student Union, and Student Services activities.

An alternative student accommodation is offered at Trueman House, which features apartment-like living in large, bright, recently renovated rooms. Each 11-bedroom section (apartment) includes a fully equipped kitchen, sitting room with cable TV, high-speed Internet, microwave, laundry room, storage area, and shared washrooms and showers.

Dining Services for on-campus students provide a balanced, healthy menu from which students may choose a variety of main-course and dessert items. Special meals are held to celebrate many special occasions such as Thanksgiving, Christmas, etc.

Academic Support Services

The Nova Scotia Department of Education provides support for postsecondary students with a permanent learning disability and/or physical/mental disability. NSAC students may seek assistance from a Department Disability Resource Facilitator located on campus. Documentation (a Psych Ed assessment for a learning disability; a letter from a doctor for a physical disability) must be provided with regards to the disability and its impact on learning. The Disability Resource Facilitator can assist Canadian students with funding applications for resources (e.g. Canada Study Grant). Students from other countries must apply to their respective home countries for similar funding.

If accepted by the Department of Education (Rehabilitation Programs and Services) as a client, such things as tutoring, note taking, interpreters (for hearing impaired) and FM systems may be funded.

Peer Tutoring Program

A peer tutoring program provided by Student Services is available for all NSAC students. To access the service, students meet with the program co-ordinator, sign a contract, and are matched with an appropriate tutor. Students may seek help for more than one subject area at a time. Each student normally receives two hours of tutorial each week for each course.

Student Government

Through a system of self-government, students are encouraged to accept the greatest possible degree of responsibility in connection with their own affairs. Only full-time students taking

regular programs are allowed to act as executive members of the Student Union or as members of student committees.

Faculty members, appointed by the Faculty, act in an advisory capacity with student committees on financial, literary, social, and athletic affairs so that every possible benefit may be derived from these activities.

Computing Services

Information Technology Services is responsible for managing the computing resources found on the NSAC Academic Network. The mandate of ITS is to:

- provide a consistent, state-of-the-art academic computing environment;
- provide broad and flexible access;
- provide an equitable distribution of academic computing resources to meet the demands of the College community;
- ensure that graduating students are equipped to meet the challenges of new communications technology; and
- provide efficient and effective management of academic computing resources.

ITS manages over 120 workstations running Windows environments. The workstations are distributed among five general-access labs and connected through a campus-wide network. Microsoft and Corel Suite applications, mathematical, statistical, and CAD software, as well as discipline-specific software, are available from any workstation. Students have full access to both Internet and e-mail services from any lab.

The ITS Media Centre provides students with access to digital cameras, multimedia projectors, scanners, imaging software, and colour printing.

The MacRae Library catalogue and library catalogues from other educational institutions are available through the campus network.

Internet and e-mail services are available to students living in residence. For further information about residence connections please contact Student Services at 893-6672.

For further information about any other computing question please contact the Helpdesk:

e-mail helpdesk@nsac.ca

phone (902) 893-6154

fax (902) 893-5449

The Policy Governing Access To and Use of NSAC Academic Computing and the Academic Computing Services User Policy govern the use of computing resources.

Library

All registered students have access to MacRae Library and Novanet collections. This comprises well over two million volumes in 10 university library collections. The MacRae Library's Electronic Resources (MLER) consist of an expanding collection of electronic databases, journals and other electronic resources that provide access to the world literature of the basic sciences, the agricultural and food sciences, and core collections in the social sciences and humanities. The Novanet catalogue—the main access point to both electronic and print collections—is available at saturn.novanet.ns.ca. MacRae Library electronic resources can be accessed from any computer workstation on the campus network, from the 32 computers in the Libraries Information Commons, and from remote locations for people authenticated by the campus proxy server. The Library subscribes to the main databases for the agricultural sciences, including indexing, abstracting, and aggregator databases (CAB Abstracts, AGRICOLA, FSTA,

AGRIS, BIO & AGR Index, Academic Search Premier), a growing number of which provide links to the full text online, and participates in the Canadian Research Knowledge Network (CRKN) national site-licensing initiatives. NSAC students also have access to approximately 1,300 full-text electronic journals (JSTOR, ScienceDirect, ASAE Technical Library, Web of Science, Wiley Interscience, Springer-Verlag, American Chemical Society, Royal Society of Chemistry, Institute of Physics) and approximately 400 NetLibrary e-books.

Continuing and Distance Education

NSAC students often benefit from learning opportunities offered through The Centre for Continuing and Distance Education (CDE). It offers short-term courses on specific topics, certificate programs for professional or personal benefit, and continuing education for members of agri-sector professional associations.

CDE is actively involved in the development of NSAC's distance education capacity and supports the use of WebCT for both on-campus and distance education courses. CDE coordinates the development and delivery of web-based credit courses. The following courses are currently available:

- AGRI1000 Agricultural Ecosystems
- AGRI1001 Food Security
- AGRI1002 Transition to Organic Agriculture
- AGRN0200 Potato Production
- AGRN1000 Organic Field Crop Management
- AGRN3002 Potato Production
- ANSC1000 Organic Livestock Production
- ECON1000 Principles of Microeconomics
- ENVS1000 Composting and Compost Use
- HORT2000 Vegetable Production
- HORT2001 Principles of Organic Horticulture

CDE administers non-credit courses offered to students who require upgrading to enter certain NSAC courses. The following university preparatory courses are currently available:

- CHEM0050 Preparatory Chemistry
- MATH0050 Functions
- PHYS0050 Introductory Physics

For descriptions of these courses, please see the Description of Courses section of this calendar.

Both credit and non-credit certificate programs are offered. Programs currently available are:

- Certificate of Specialization in Organic Agriculture
- Agricultural Equipment Apprenticeship Program
- Master Gardener Training Program

A number of credit courses are held in the spring/summer semester. These offerings are based upon student demand. Typically, these include:

- MATH1000 Calculus and Analytic Geometry I
- MATH1001 Calculus and Analytic Geometry II
- STAT3000 Introduction to Planned Studies: Surveys and Experiments

For updated information on CDE courses and programs, check the CDE website at www.nsac.ca/cde or contact (902) 893-6666. On campus, CDE's main office is Room 276 of the Haley Institute.

Churches

Churches representing a wide range of denominations are located in Truro and Bible Hill.

Day Care

The NSAC Day Care is a non-profit organization governed by a Board of Advisors appointed by the President. The day care is open five days a week from 7:30 am to 6:00 pm. It is licensed under the Department of Community Services for 33 children per day. A reduced rate is available for the children of students. Five subsidized spaces are also funded by the Department of Community Services. These spaces are available only to students whose income falls below a certain level. Remember to reserve early to ensure a space in September. The NSAC Day Care promotes quality child care.

Admissions Information

Admissions Status

Full-time

Students are admitted to a program of study as full-time (three or more courses per semester) students if they meet all current admission requirements of that program at the time of application and there is room in the program. The Registrar may admit full-time students on a probationary basis. Full-time students in good standing have the right to move through the program in the normal fashion.

Part-time

Students are admitted to a program of study as part-time (fewer than three courses per semester) students if they meet all the current admission requirements of that program at the time of application and there is room in the program. The Registrar may admit part-time students on a probationary basis. Part-time students in good standing have the right to move through the program in the normal fashion.

Mature

Students who are at least 23 years of age and who do not meet admission requirements may be admitted as either full-time or part-time students on the basis of being mature applicants. Mature applicants are considered on a case-by-case basis, and may be admitted on a probationary basis. Mature students who complete one full semester in good standing assume normal student status.

Visiting

Students are admitted as visiting students on the basis of a Letter of Permission from another postsecondary institution. Enrollment in specific courses is subject to availability of seats in the

course. Visiting students do not have student status beyond the semester to which they are admitted.

Unclassified

Students are admitted to a single course as unclassified students upon permission of the Registrar and the instructor. Unclassified students do not have ongoing student status and may not enrol in more than one course.

No Program

Students may be admitted to one or more courses on a "no program" basis. Admission is to specified courses on a case-by-case basis. No-program students have no ongoing status.

International

Students who do not have Canadian citizenship or permanent residence in Canada may be admitted as international students. These students must produce proof of a student visa before permission to register will be granted.

Admission

It is the responsibility of each applicant to ensure that the application file is complete. The following must be submitted by each applicant to the Office of the Registrar:

- a completed application form (forms not properly completed will delay processing)
- the application fee of \$25
- an official record of high school work
- an official transcript for work done at previous postsecondary institutions (if applicable)
- evidence of competency in English for applicants whose native language is not English (see information on English Language Tests)
- supplementary information as required for specific programs.

Response to Applications

NSAC will respond to your application as promptly as possible and will advise you of any documentation still required. When documentation is complete, applications are placed in the hands of the appropriate admissions committee. Although every effort is made to have decisions made quickly, there will be some delay at times, particularly in programs where competition for places is keen.

As soon as decisions are made, whether admission, deferral, or rejection, applicants will be advised.

Please note that admission to many programs is limited. Therefore, possession of minimum requirements does not guarantee admission.

Early Acceptance

Applicants currently attending high school who have good grades, i.e., a strong average, may be given early acceptance, conditional on satisfactory completion of work for which they are currently enrolled.

Final Acceptance

Applicants must successfully complete high school classes in the required subjects or leave their current postsecondary institution in good standing.

Academic Probation

Students may be admitted to NSAC on Academic Probation:

- (a) if the student is a mature student who does not meet admission requirements for the program, or
- (b) if the student's last full-time enrollment at any institution has resulted in dismissal or suspension for academic reasons, or
- (c) if the student meets most, but not all, of the requirements for admission.

When a student is admitted on probation, all regulations for probationary students apply.

English Language Requirements

If English is not your native language, you must provide official results from one of the following standardized tests:

- TOEFL—a minimum score of 550 OR a minimum computer-based TOEFL score of 213
- TOEFL IBT—a minimum score of 80
- MELAB—a minimum score of 80
- IELTS—a minimum score of 6.0.

Note: Students who meet all admission requirements except for the English Testing levels may be accepted to NSAC subject to completion of a University Preparatory English Program offered by the International Language Institute, in cooperation with NSAC. Please contact NSAC for more information.

Application Deadlines for Domestic Students

The application deadline for all programs for Fall semester is August 1 with the following exception:

Veterinary Technology—February 28.

The application deadline for Winter semester is December 1.

Application Deadlines for International Students

The application deadline for all programs for Fall semester is March 1. The application deadline for Winter semester is July 1.

Admission Requirements

NSAC Admission Requirements, by Program, 2006/2007

Possession of the minimum entrance requirements does not guarantee admission.

B.Sc. (Agriculture) and Pre-Veterinary Medicine

Admission into the B.Sc.(Agr.) or Pre-Veterinary program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects, including:

- English
- Pre-Calculus Math (or 70% in Academic Math)*
- any two of the following science requirements: Chemistry*, Biology, Physics*, Geology, Oceanography, or Agriculture
- one elective.

Note: Nova Scotia students who have successfully completed five Grade 12 university preparatory credits, including English and Math, are able to use NS Oceans 11 and/or NS Agriculture 11 to meet the above-noted science requirements.

Engineering Diploma

Admission into the Engineering program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects including:

- English
- Pre-Calculus Mathematics (or 70% in Academic Math)*
- Chemistry*
- Physics*
- one elective.

Bachelor of Technology (Env Hort)

Admission into the Bachelor of Technology in Environmental Horticulture program requires completion of the Environmental Horticulture Technology program (or its equivalent) with an average of at least 60%.

Bachelor of Technology (Applied Science)

Admission into the Bachelor of Technology in Applied Science program requires high school graduation with an average of at least 60% in five grade 12 university preparatory subjects including:

- English
- Pre-Calculus Mathematics (or 70% in Academic Math)*
- Physics*
- two electives, preferably Chemistry and Biology.

Technology Diploma (Enterprise Management)

Admission into the Diploma in Enterprise Management program requires high school graduation with an average of at least 50% in the following university preparatory courses:

- Grade 12 Academic English
- Grade 11 Academic Math
- Biology 11 or Chemistry 11 or Agriculture
- Integrated Science 10 or equivalent.

Note: Experience is required for the Dairy and Equine specializations. Please contact the Registry Office for more information.

Technology Diploma (Veterinary)

Admission into the Veterinary Technology program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects including:

- English
- Pre-Calculus Mathematics (or 70% in Academic Math)
- Chemistry
- Biology
- one elective.

Technology Diploma (Environmental Horticulture)

Admission into the Environmental Horticulture Technology program requires high school graduation with an average of at least 60% in five university preparatory subjects including:

- Grade 12 English

- Grade 12 Mathematics
- Grade 12 Biology
- one Grade 12 elective
- Grade 11 Chemistry.

Technology (Plant Science)

Admission into the Plant Science Technology program requires high school graduation with an average of at least 50% in four university preparatory courses including:

- Grade 12 English
- Grade 11 Mathematics
- Grade 11 Chemistry
- Grade 10 Biology or Integrated Science.

*Applicants who are otherwise qualified but do not have the appropriate physics, chemistry and/or math courses may be admitted with the requirement that they take the relevant non-credit introductory studies course(s) in their first year prior to registering in the degree level counterpart(s). The non-credit introductory studies courses include CHEM0050 Preparatory Chemistry, PHYS0050 Introductory Physics, and MATH0050 Functions.

Admission Requirements For B.Sc.(Agr.) Program for Students Graduating From High Schools in the United States of America

Students must have achieved a "B" average in five Grade 12 university preparatory subjects, including:

- English
- Pre-Calculus Mathematics
- any two of the following science requirements: Biology, Chemistry, Physics, Geology, Oceanography, or Agriculture
- one other Grade 12 university preparatory subject.

Students must have achieved average SAT I scores of at least 500.

Students who are not U.S. citizens, or whose mother tongue is other than English, may be subject to additional requirements.

*Note: Students who do not have Grade 12 Chemistry or Grade 12 Physics will be required (depending on the major selected) to take non-credit prerequisite courses in Chemistry and Physics in their first year.

Financial Information

Note: At the time of printing the 2006/2007 NSAC Calendar, fees for 2006/2007 were unavailable. The rates shown below are the rates for the 2005/2006 academic year. The rates for 2006/2007 will be posted on the website (www.nsac.ca/reg) when available.

The College reserves the right to make changes without notice in its published scale of charges for tuition, accommodations and meals, and other fees.

All fees are due and payable as of the first day of classes (September 7, 2006 for the Fall semester and January 3, 2007 for the Winter semester). Payment must be by cash, money order, certified cheque, Visa, MasterCard, or debit card. Any student with an unpaid account at the end of the second week of classes will be permitted to continue only upon settlement of the outstanding account.

Tuition Fees (Canadian Citizens and Permanent Residents)

Program	Price per Course (2005/2006 rates)
Degree level	\$529
Technical level	\$327
Animal Health (Veterinary) Technology Courses	\$439
Audit (Degree level)	\$529
Audit (Technical level)	\$327
Introductory Studies (non-credit)	\$207
Distance Education Course Fee	\$25*

* Off-site non-program Distance Education students are charged a \$40 DE Course Fee, but no student fees.

For information on Graduate Program fees, contact the Research & Graduate Studies Office.

Undergraduates are permitted to register for graduate-level courses only with the approval of the Graduate Coordinator. In cases where undergraduates are permitted to register for graduate courses, the graduate tuition fee will be applied.

Tuition Fees (International Students)

Program	Price per Course (2005/2006 rates)
Degree level	\$1058
Technical level	\$1058

BOOKS (2005/2006 rates)

Full-time students (approx./year)	\$1200
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Student and Technology Renewal Fees

A full-time student fee is applicable to students registered in three or more courses in a semester. It is compulsory covering Caution/Development Fund and non-academic student activities and support programs. A per-course student fee is applicable to part-time students. A technology renewal fee is charged to all full- and part-time students.

Full-time Students (per semester)	(2005/2006 rates)
Student Fees	\$147
Technology Renewal	\$50
Health/Dental Fees*	(begins 2006/2007)

Part-time Students (per course)	(2005/2006 rates)
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This fee is applicable to students who are registered in one or two courses in a semester. It is compulsory and non-refundable. Part-time students receive a student card.

Part-time Student Fee	\$31
Technology Renewal	\$15

*** Extended Health and Dental Plan**

In 2005/2006 students voted to implement a new health and dental plan. This will begin in September 2006. All full-time students at NSAC are automatically enrolled in the Student Health and Dental plans when they register for classes. The premium for each plan is an annual one; therefore the process for opting out must be done prior to the specified deadline. The deadline each year coincides with NSAC's last date to register for a course. More information regarding your Student Health and Dental plans can be found at www.gallivan.ca or by visiting your on-site Student Benefits Plan Office, opening in Fall 2006.

Caution/Development Fund

Full-time students, at the beginning of each semester, must make a payment to cover the cost of damages to College property, breakage in labs, etc.

In residence, damage to floors, walls, doors, windows, lighting, the sprinkler system, or furniture in any bedroom will be charged to the occupants of the room in equal shares, and damage to the common parts of the College and residences will be charged to the entire student body if the offender is not charged.

All students are subject to a general levy through the office of the Dean of Student Services for deliberate breakage and damage to buildings and equipment that cannot be traced. The balance of monies collected and not required to cover damages/breakages will be placed into funds to support student residence development, study abroad, and broad-based student development activities and services.

Program-related Fees (2005/2006 rates)

Students may be required to pay specific program-related fees not shown in the calendar. These may include fees for items such as laboratory coats, steel-toed boots, hard hats, etc.

Full-time students in the Veterinary Technology program are charged an additional Materials and Service Fee, which is payable at registration. In 2005/2006 this fee was \$75 per

semester. For a complete list of supplies and services that are provided to Veterinary Technology students in return for this fee, contact the Department of Plant and Animal Sciences.

NSAC requires that all students entering the Veterinary Technology program be vaccinated against rabies and show proof of vaccination prior to beginning the program. This is required as a result of the increasing possibility that animals in this region may be infected. The HDVC is required in three doses—one on each of days 0, 7, and 21. Veterinary Technology students will be required to have their serum tested for rabies antibodies two years following the vaccination and those with inadequate levels of protection will be required to get an additional dose of HDVC.

Students in the Diploma in Enterprise Management program are required to pay an additional \$75 fee for workplace readiness training such as First Aid and OH&S.

Residence and Meal Plan Fees

(2005/2006 rates)

Plan	Price per Term	
	Fall 2005	Winter 2006
Shared room and 19 meals	\$2817	\$2817
Shared room and 14 meals	\$2769	\$2769
Private room and 19 meals	\$3074	\$3074
Private room and 14 meals	\$3026	\$3026
Large private room and 19 meals	\$3296	\$3296
Large private room and 14 meals	\$3248	\$3248

Please note that students may choose either 19 meals or 14 meals per week. Once the option has been selected no plan changes during the semester are permitted. A change of plan can be made at the end of the Fall semester for the Winter semester.

Other Residence Fees (per year)

House Fee	\$30
Laundry Fee	\$60

Please note that residence students will be charged the following fees for lost keys: \$50 for a room key; \$100 for a front door key.

Graduate/Mature Student Housing

NSAC offers alternate student accommodation on the ground floor of Trueman House.

This program features apartment-style living with peers. It includes a fully equipped kitchen with lots of cupboard space. The furnished sitting area includes cable TV and a computer with high-speed Internet; students share these common areas from eleven private rooms. Each student room is furnished and includes local phone service, cable, and high-speed Internet service. The washroom and shower rooms are shared.

Rates for 2005/2006 were \$546 and \$577 monthly, payable at the first of each month. This includes access to the laundry room, cleaning of common areas, garbage removal, parking, utilities, high-speed Internet, cable, and local phone service.

Students wishing to apply should forward an application and deposit of \$250 to reserve space in this program. This deposit will be applied to the first month's rent. The deposit will be refunded up to, but no later than, one month prior to your arrival date. Students are required to notify the residence office in writing of their intent to terminate their residence agreement.

Students participating in this program may, but are not required to, purchase a meal plan from Food Services in Jenkins Hall.

Note: Phones, TVs, computers, and connection cables are the responsibility of the student.

Refunds

Withdrawal from the College and/or residence is not effective until the student has completed the appropriate documentation as specified in the Calendar and the Residence Handbook, and has returned their ID Card to Student Services.

Student fees will be refunded to students who withdraw during the first two weeks of the semester. After the second week, there will be no refund except in the case of a withdrawal for health or other compelling compassionate reasons.

Tuition Fees

Refunds for students who withdraw from the College will be as follows:

Until the end of 10th class day	100%
Until the end of 15th class day	80%
Until the end of 20th class day	50%
Until the end of 25th class day	25%
Beyond 25th class day	No refund

Residence Fees

Students who accept a place in residence and fail to cancel their residence application prior to August 20 for the Fall semester and December 20 for the Winter semester will forfeit their residence deposit or be levied a \$300 cancellation fee. Room fees are charged from the first day that residences are officially open. Students who withdraw from residence will be charged room fees as follows:

1st week (or any part thereof) residences are open	\$300
2nd week (or any part thereof) residences are open	\$650

3rd week (or any part thereof) residences are open \$1200

From the end of the third week 100% of the room fee for the semester will be charged.

Meal fees are charged on a per-week basis for each week or part week prior to the student's official withdrawal from residence.

Non-payment of Fees

If fees are owing, you must arrange with Financial Services to pay outstanding fees before registration will be permitted.

Transcripts will not be issued to students with outstanding accounts.

Application to Graduate

Students intending to graduate in May must submit an "Application to Graduate" to the Registrar by the previous December 15. Students who apply by November 15 to graduate will receive confirmation from the Registrar prior to the start of the winter term. There is no fee charged for an application to graduate submitted by the deadline. Applications that are submitted after December 15 must be accompanied by a \$50 late fee.

Transcripts

Students' academic records, including their official NSAC files, are the property of NSAC. Students' records are privileged information and to that end transcripts will not be released by the Registrar to those outside the University without the prior written permission of the student. As required by their appointment, academic administrators within NSAC have access to students' complete academic records.

To request a transcript, students must complete the appropriate form, obtainable from the Registrar's Office, or mail or fax a signed letter of request to the Registrar's Office. It is not possible to accept a transcript request over the telephone. Transcript requests are processed strictly in the order in which they are received. Although the normal processing time is approximately five working days, additional time will be required at peak periods.

Official transcripts are forwarded directly from the Registrar's Office to an official third party.

Students whose accounts are in arrears will be denied transcripts until the debt is paid.

Registration Deposit

New Students

The final admission step for new students is to submit the \$200 Registration Deposit to the Office of the Registrar. When this deposit is received, the student is granted a Permit to Register and will receive a package guiding him or her through the registration process. The registration deposit will be refunded up to but not after June 30, for students who submit written notice of cancellation by that time. No deposits received after June 30 will be refunded.

Returning Students

Students with outstanding balances will not be permitted to register for the Fall or Winter semester without making arrangements to settle their accounts with Financial Services.

Residence Deposit/Cancellation Fee

New students wishing to apply for accommodation in residence must submit the \$190 Residence Deposit by June 1. However, this may be submitted at the same time as the Registration Deposit. Deposits are applied to total residence fees. The residence deposit will be refunded, up to but not after June 30, for students who submit written notice of cancellation by that time. No deposits received after June 30 will be refunded.

Returning Students Registered for Residence Room Draw

Returning students wishing to take part in the March Room Draw should contact the Office of the Dean of Student Services for details. A cancellation fee of \$300 will be levied against any students failing to cancel their application in writing by August 20. Note: students with outstanding balances on their accounts will not be permitted to enter the room draw.

Early Arrivals to Residence

Accommodating early arrivals in residence is normally not possible, but in extenuating circumstances, early arrivals may be accommodated. A written request documenting why alternative arrangements cannot be made must be provided to the Residence Manager no later than August 15 for the Fall semester, or December 1 for Winter. Those granted permission to arrive early will be charged a per diem rate.

Canada Student Loans Program

Eligible students enrolled in the degree and technical programs can apply for Government of Canada student loans and bursaries. Application for a Certificate of Eligibility must be made to the issuing authority of the applicant's province of residence.

Application forms are available as follows:

Nova Scotia
Department of Education
PO Box 2290
Halifax Central
Halifax, NS B3J 3C8

New Brunswick
Department of Advanced Education and Labour
PO Box 6000
Fredericton, NB E3B 5H1

Prince Edward Island
Department of Education
PO Box 2000
Charlottetown, PE C1A 7N8

Newfoundland & Labrador
Department of Education
Student Aid Division
St. John's, NL A1C 5R9

The application should be completed and filed with the issuing authority during the early summer, so that an eligibility form can be issued before Registration Day. The applicant then presents the Certificate of Eligibility at registration time. Once it is signed, the student may take it to the lending agency to arrange for funds.

International Student Information

Application Deadlines

September admission March 1

January admission July 1

Costs (in Canadian dollars)

Note: At the time of printing the 2006/2007 NSAC Calendar, tuition fees for the 2006/2007 were unavailable. The rates shown below are the rates for the 2005/2006 academic year.

Tuition Fees (based on 10 credits)	2005/2006
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Degree	\$10,580
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Technology	\$10,580
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Estimated Expenses	2005/2006
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Books and instruments (per semester)	\$600
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Health insurance (single coverage, per semester; required for all non-Canadian students)	\$210
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Compulsory Fees	2005/2006
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(Compulsory fees include athletic, caution/development fund, \$240 student union, technology renewal, laundry, house fees, non-academic student activities, and support programs) per semester

Residence Plus Meal Plans

(per semester)	\$2769-3296
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For more details see 'Schedule of Fees'

Off-campus Accommodations

One-room apartment:	\$300-500/month
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Boarding	\$200-300/month
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Information regarding off-campus housing and leases can be found on the Student Services website: www.nsac.ca/stuserv/

Personal Expenses

Clothing and amusement (approx., per year): \$1,600

Student Visa and Health Insurance

International students must have proof of a student visa and health insurance before permission to register will be granted.

Regulations and Procedures

All students are under the charge of the President and are responsible to him at all times for their conduct. The President is authorized to make any additional regulations found necessary for the discipline of the College and to impose fines or other penalties for any infraction of rules and regulations. The President has delegated responsibility for student discipline to the Dean of Student Services. College rules with respect to student behaviour and the process for dealing with student discipline are contained in the Community Standards section of the NSAC Student Handbook.

Every student is expected to show, both within and outside the College, such respect for order, morality, and the rights of others, and such sense of personal honour, as is demanded of good citizens. Students found guilty of immoral, dishonest, or improper conduct, violation of rules, or failure to make satisfactory progress shall be liable to College discipline. Students should make themselves familiar with detailed regulations and procedures, which are published in the NSAC Student Handbook under Community Standards and the Residence Handbook, available at www.nsac.ca/stuserv/.

Students are encouraged to participate in approved College orientation activities. Hazing as a part of initiation is forbidden.

FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY

The Freedom of Information and Protection of Privacy (FOIPOP) Act provides for the protection of an individual's right to privacy but also requires that certain records be disclosed upon request unless they are exempted from the disclosure. The Act requires that the College not disclose personal information if that information would constitute an unreasonable invasion of personal privacy. Applicants to NSAC are advised that information they provide along with other information placed in a student file will be used in conjunction with College practices for internal use and will not be disclosed to third parties except in compliance with the FOIPOP Act or as otherwise required by law.

Advising

NSAC is committed to providing students with assistance in the transition to university life and guidance throughout the academic process. Advisors are assigned to all students, assisting them with a wide variety of issues, from time management to program selection. It is important to note that the final responsibility for program success rests with the student.

Academic Standing

- Academic records are reviewed after every term.
- Academic Probation can be assessed after each term. Students on Academic Probation can continue to register on their own while on probation.
- At the end of the academic year (after the Winter semester) academic records will be reviewed and students with poor academic records may, at that time, be placed on Academic Probation or Academically Dismissed (Required to Withdraw) for a full semester (normally the Fall semester, applying to return in the Winter semester).

Academic Probation

Academic Probation is assessed each term. Students are placed on Academic Probation if they take two or more courses and:

- they have a sessional average less than 50%, or
- they have failed 50% or more of their courses (including Drop Fails), or
- their cumulative average is less than 60% (less than 55% for Tech students).

Students on Academic Probation need to work with their advisors to ensure that they have a plan in place to assist them in improving their academic performance. Students on probation are limited to a maximum workload of 5 credit courses for degree students and 6 credit courses for technical students.

Removal From Academic Probation

Students will not be removed from Academic Probation until their cumulative average is at least 60% (at least 55% for Tech students).

Academic Dismissal (Required To Withdraw)

Academic Dismissal is assessed only after the Winter semester. Students will be Dismissed for a full semester if they have two consecutive terms (normally Fall/Winter) of two or more courses where:

- they have a sessional average below 50%, or
- they have failed 50% or more of their courses (including Drop Fails).

Note: Students returning from a period of Academic Dismissal are automatically placed on Academic Probation.

Academic Dismissal—Appeal Policy

Grounds for Appeal

The following are the only grounds that a student may use for appealing their Academic Dismissal status:

- medically documented/supported personal illness, injury or trauma
- documented/supported severe traumatic circumstances in immediate family such as death or serious illness.

Appeal Process Procedures and Deadlines

1. Students must submit a letter to the Registrar requesting that their status be appealed. The letter should clearly demonstrate that the appeal is in accordance with the Grounds for

Appeal in the section above. Documentation supporting any claims made must also be included. All information contained in the letter will be kept confidential.

2. Appeals relating to Winter semester performance must be received by 4:30 pm on June 15. The Registrar will meet with members of the Standards and Admissions Committee to review the appeal.

3. Students will be informed of the decision by letter only. All decisions are final.

Academic Responsibility

NSAC students are expected to display self-discipline and maturity throughout their period of study at the College. At times there may be considerable pressure to achieve high grades. Some students may be tempted to obtain grades in a dishonest manner.

Practices such as cheating, plagiarism, and other misrepresentation relating to academic work compromise the integrity of the College and the degrees and diplomas that the College awards. The College does not condone these nor other forms of academic misconduct under any circumstances and will take appropriate disciplinary action.

Regulations concerning Academic Misconduct can be found in the following documents: 1) NSAC Student Code of Conduct; 2) Guidelines for Dealing with Cases of Academic Dishonesty at NSAC. These documents are available at www.nsac.ca/stuserv/ and in the Community Standards Handbook.

Advanced Standing

Students who have completed courses at other postsecondary institutions may be eligible to receive credit for work done on the following basis:

- Each course must be at the same academic level as the one it is replacing.
- Each course must satisfy a requirement of the student's academic program.
- Students enrolled in a four-year degree program must complete a minimum of 15 courses at NSAC to graduate.
- Students enrolled in an Engineering Diploma program must complete a minimum of 11 courses at NSAC to graduate.
- Students enrolled in a technical diploma program must complete a minimum of one-half of the required courses at NSAC to graduate.

Students may be eligible for advanced credit standing based on the results of an Advanced Placement exam (AP) or an International Baccalaureate certificate (IB). Those wishing to apply for credit at NSAC based on AP or IB must supply an official transcript of test results to the Registrar's Office. The student will be notified once the assessment is complete.

Only credits that are relevant to the student's program will be considered. Transfer credits will be awarded based on equivalent NSAC courses. Elective credits may be awarded for courses that have no direct match in the NSAC curriculum. Credits will be awarded upon admission to the B.Sc.(Agr.) degree program for students with an AP national exam with 4 or 5, or Higher Level IB classes with 5, 6, or 7. A maximum of ten credits may be awarded.

Transfer credits are evaluated on an individual basis and will vary depending on each student's personal academic program. Please consult the Registrar's Office for information concerning your application and transfer credits.

Official transcripts must be submitted to the Registrar's Office before previous postsecondary work will be considered for advanced standing. Transcripts received after August 15 for the Fall semester, or after December 1 for the Winter semester, may not be evaluated before Add/Drop deadlines.

Athletics

All full-time students are eligible to play for teams representing the College, subject to conditions established by NSAC, the Atlantic Colleges Athletic Association, and the Canadian Colleges Athletic Association.

All teams or groups that represent the institution must be accompanied by a member of the College staff or senior leader (non-student) approved by the Athletic Director (athletics) or Dean of Student Services (groups or clubs).

Attendance in Class

All students are expected to attend all lectures and laboratory periods in the courses for which they are registered.

Specific courses have mandatory attendance requirements. In these courses, attendance requirements will be stated at the outset of the course. Absence from scheduled activities may be considered grounds for automatic failure.

Students wishing to absent themselves from classes for compassionate reasons must obtain permission from the Registrar or, in his absence, from the Dean of Student Services.

A student who arrives late for class may be refused admission.

Auditing Courses

A student may, with the permission of the instructor, audit a course. Terms and conditions of the audit will be set forth by the instructor at the outset. Students who do not fulfill the conditions may have their privileges revoked, and will not have the audit recorded on their transcript. Audit students are not entitled to evaluation of their performance.

Normal Course Load

A normal full-time course load for students registered in the degree program is considered to be five courses per semester. A normal full-time course load for students registered in the technical program is six courses per semester.

Course Overload

Students registered in the degree program who wish to take more than six courses in a single term must have the permission of the Vice-President Academic in consultation with the student's advisor. Students registered in the technical program who wish to take more than seven courses in a single term must have the permission of the Vice-President Academic in consultation with the student's advisor.

Challenge for Credit

Students who have acquired competence in material covered by an NSAC course may obtain credit for the course by means of a course challenge.

Procedures

- Application for Challenge for Credit is made to the Registrar. A Challenge for Credit is charged at 50% of the course fee.
- The department that is responsible for the course in question must be satisfied that there is a reasonable basis for requesting a Challenge for Credit, such as previous work experience or educational experience for which a credit cannot be obtained directly. The

department may designate courses that cannot be challenged. The academic basis of the department's decision is final and cannot be appealed.

- The Challenge for Credit will normally be in the form of a comprehensive examination, but for a course with an accompanying laboratory or project(s) the department may require the demonstration of appropriate skills as a prerequisite to, or as a part of, the Challenge for Credit examination. A Challenge for Credit examination is given at the discretion of, and is administered by, the department.
- The department and instructor concerned will determine the content and format of the Challenge for Credit examination.
- A Challenge for Credit examination will be given at a time arranged by the department, but must be completed and the grade submitted prior to the last date for adding a course for the term in which the particular course is offered.
- Challenge for Credit examinations will be graded as either Pass or Fail. This grade is final and cannot be appealed. If the Challenge for Credit examination is passed, the course will appear on the student's transcript indicating a "P" for pass. Challenge for Credit examination failures will not be recorded on the student's transcript.
- No student may Challenge for Credit a course that appears on the student's transcript. This includes courses assigned a Drop Fail (DF) or Audit status and courses offered at NSAC or courses attempted elsewhere for which a credit would normally have been granted by NSAC. The latter information can be obtained from the Registrar's Office.
- A student currently on Academic Probation or with a Required to Withdraw status may not Challenge for Credit.
- A student may not Challenge for Credit more than once in any course.
- A maximum of six credits may be accumulated by Challenge for Credit.

Dropping Courses

Deadline to Drop a Course Without Penalty

The last day to drop a course without academic penalty is 4:30 pm on the Friday of the seventh week of classes (October 20, 2006 for the Fall semester and February 16, 2007 for the Winter semester).

Drop Failure

A Drop Failure in a course is a grade assigned when a student drops the course at the Registrar's Office after "the last day for dropping a course without academic penalty" and no later than the last day permitted for a Drop Fail. A Drop Fail is counted as a failed subject when determining student standings. When determining averages a Drop Fail is not counted as a course (mark). It is recorded on the transcript as a "DF". Courses with "DF" will not be included in determining full-time status.

Deadline for Drop Fail Status

The last day to declare a Drop Fail status for a course is 4:30 pm on the Friday of the 11th week of classes (November 17, 2006 for the Fall semester and March 23, 2007 for the Winter semester).

If a student is registered for a course after the deadline date indicated for a Drop Fail, the mark earned will be entered on the record regardless of whether or not the examination is written.

Examinations

Examination Regulations

1. No student may leave the examination room until one-half hour after the beginning of the examination.
2. No student may be admitted to the examination room after one-half hour of the time allotted for the examination has passed.
3. Foreign language dictionaries, reported to and approved by the examiner, may be used by students whose native language is not English.
4. A student must not communicate with any other student in any manner whatsoever during the examination period.
5. All texts, handbooks, notes, tables, and other printed or written and loose paper must be deposited with the supervisor in charge of the examination, before the student takes his/her seat, unless provision as been made by the examiner for reference books and materials to be allowed.
6. A student who is found guilty of cheating in any manner by the Faculty Council Judicial Committee may lose credit for the course. The Judicial Committee may apply additional penalties including fines, suspensions, and/or a permanent notice of academic discipline on the student's transcript.
7. If an entire day of exams is cancelled (e.g. inclement weather) the exams on that day will normally be rescheduled to the day after the posted exam schedule.

Rereading of an Examination

A student may consult with the instructor for information on and interpretation of the evaluation of his/her examination paper. If the student is not satisfied after consultation, he/she may apply to the Registrar's Office for a reread. The application must be submitted within 30 days of the release of the original mark and be accompanied by a \$100 fee. The fee will be returned if the mark is raised, but will be forfeited if it is not. The reread is to be made by an appropriate person outside the institution and arranged by the head of the department concerned.

Supplemental Examination

Supplemental examinations are no longer offered, as of July 2005.

Deferred Examinations

A deferred examination is permitted only on extreme compassionate grounds and requires proper certification. Unless the student presents a further certification, each deferred examination must be written within two weeks of the day on which the regular examination in the course was scheduled. Permission to defer an exam and arrangements for the specific time and place of writing are to be made by the Registrar in conjunction with the instructor involved.

Grades

Basis of Marking

The evaluation of a course may be based on tests, laboratory exercises, other assignments and examinations, and attendance. In determining a final mark, instructors will take into consideration the total work of the course. The evaluation used by one instructor will not necessarily be the one used by another.

At the beginning of each course, professors are required to indicate to students, in writing, the attendance requirements and the workload for the course, together with the appropriate dates and values of tests, term papers, quizzes, other assignments, and final examinations. No credit is given for a course unless all requirements for it have been completed.

Grade Appeals

Wherever possible, the student should resolve differences over assigned grades with the course instructor. After consultation with the instructor, the student may still wish to appeal the grade. The appeal must be submitted in writing to the Registrar, along with the \$25 non-refundable fee, after release of final marks and no later than 30 days after the release of final marks. The Registrar may waive the 30-day deadline in exceptional circumstances.

Appeals of grades will be considered by a committee convened by the Registrar and consisting of the Vice-President Academic, the Department Head, the Chair of the Standards and Admissions Committee, and one member of Faculty Council selected by the student. In the case where one of the committee members is the instructor of the course in question, the Vice-President Academic will appoint an alternate. The committee will consider written submissions from the student and the instructor, and may request to meet with either of them. An appeal may be based on questions of process or content. In the case of the latter, any grade changes must be based on a reread. If the committee does not recommend a reread, the student may ask for one. In that case the student must pay a \$100 fee, which will be refunded if the resulting grade is higher. Grades resulting from rereads may be higher or lower than the original grade and are final. The Department Head for the course in question will recommend to the appeals committee an external person or persons who will be selected to conduct the reread. In the case where the Department Head is the instructor of the course in question, the Vice-President Academic will recommend the external reader to the committee.

All decisions of the grades appeals committee are final. In the case where a grade is changed, the instructor will be provided with a written explanation for the change.

Release of Final Grades

Official records of grades, transcripts, degrees, or diplomas will be withheld pending full payment of all outstanding balances owing to the College.

Graduation

Application for Graduation

Students intending to graduate in May must submit an "Application to Graduate" to the Registrar by the previous December 15. Applications are available at the Registrar's Office.

Late Application for Graduation Fee

An application to graduate that is submitted after December 15 must be accompanied by a \$50 Late Fee.

Graduation Requirements

Graduands may opt to fulfill the program requirements in place at the time they entered the program or those in place at the time of graduation. The graduand must completely satisfy the syllabus he/she chooses. In the event that courses are no longer offered, the College will prescribe appropriate substitutes.

Diplomas Granted in Absentia

Unless the Registrar has been notified 24 hours prior to the commencement of graduation exercises that a candidate for graduation is to be absent, a fee of \$10 must be paid to the Registrar's Office before a diploma is released.

Academic Residency Requirements

B.Sc.(Agr.)

Students intending to graduate with a B.Sc.(Agr.) must successfully complete a minimum of 15 semester courses at NSAC, including 6 of the last 10 required courses.

B.Tech

Students intending to graduate with a B.Tech must successfully complete a minimum of 15 semester courses at NSAC, including 6 of the last 10 required courses.

Engineering Diploma

Students intending to graduate with an Engineering Diploma must successfully complete a minimum of 11 courses at NSAC, including 6 of the last 10 required courses.

Technical Diploma

Students intending to graduate with a Technical Diploma must successfully complete a minimum of one-half of the total required courses at NSAC, including 7 of the last 12.

Transfer Credits for Technical Graduates Admitted to the NSAC B.Sc.(Agr.) Program

Students who have graduated from an NSAC Technical diploma program, and who have been admitted to the NSAC B.Sc.(Agr.) program, shall be awarded a minimum of 10 credits toward the NSAC B.Sc.(Agr.) program, provided all other program requirements are met.

Applicants with Technical diplomas from other institutions will be evaluated on a case-by-case basis, and these applicants will normally be awarded the 10-course minimum if their technical program matches one of those offered by NSAC.

Minimum Cumulative Average Requirements for the B.Sc.(Agr.), B.Tech, and B.Eng.

Students are required to have a minimum cumulative average of 60% in all courses required for the program in order to graduate. Courses transferred from other institutions are not normally considered in calculating the cumulative average.

Graduation Standing (in effect until August 2006)

With High Honours

Cumulative average of 80% or higher

With Honours

Cumulative average of 75-79%

Standing on Graduation (effective September 2006)

With High Honours

Cumulative average of 90% or higher

With Honours

Cumulative average of 80-89.9%

Second Diploma

The minimum requirement for a second Technical diploma is 12 additional courses that include all of the required courses of the syllabus.

Advanced Standing

Students who successfully complete a Technical diploma program at NSAC and apply to the B.Sc.(Agr.) program will receive a minimum of 10 credits towards their degree.

Health Insurance Requirements

Students not covered by a Canadian provincial health insurance plan (i.e. those who are not Canadian citizens) are required to purchase a health insurance policy through the College. Once admitted, the student will be registered for coverage effective their date of arrival in Canada. The charge will be included on each student's account. Other insurance policies from home countries will not be accepted. International students who bring their immediate families to Canada must ensure they have appropriate health coverage.

Students who participate in varsity athletics are covered by a "sport" insurance policy. Details can be obtained through the Athletic Department.

It is the students' responsibility to ensure that they have adequate health and accident insurance. The College does not accept any responsibility for costs related to accident or sickness for students participating in programs of study, athletic, or College-related events.

Permission to Take Courses Elsewhere

NSAC students wishing to enrol in courses at other institutions for credit in an NSAC program must obtain, in advance, a Letter of Permission from the Registrar.

Courses that are taken without a Letter of Permission will not be credited towards a student's program.

Letter of Permission forms are available at the Registrar's Office.

Plagiarism

Copying someone else's work without giving him/her credit is plagiarizing.

The most common form of plagiarism is simply to copy word for word from a book, article or Internet site, omitting quotation marks and any mention of the original author.

A slightly more subtle form of plagiarism occurs when a writer's ideas are used by someone trying to pass them off as their own. Admittedly, in this second case, exact words used by the original writer may not be copied, but the essence of what the original writer wrote is. Therefore, it is plagiarism.

The fact that one is not copying from printed, published sources does not absolve one from the charge of plagiarism. One may be justly accused and convicted of it by copying unpublished term papers, essays, assignments, reports (including laboratory reports), and collections.

President's List

The top 10 percent of students within each program of study (Degree, Engineering, and Technology) will be included on the President's List. These students must have an average of 80% or higher, have been enrolled in four or more courses, and have no failures (including Drop Fails).

Readmission

Former students of NSAC must complete an Application for Admission to be readmitted.

Students who have been Academically Dismissed (required to withdraw) from NSAC must apply to the Registrar for readmission. Applications for readmission will be considered on

an individual basis. Applications must be accompanied by a letter outlining the factors that accounted for poor academic performance and explaining why the applicant feels ready to commence studies again.

Registration

Computerized Registration

NSAC uses Datatel's Colleague Student Information System (SIS) to enable students to register for courses via the web from anywhere in the world. Once students have paid their registration deposit, they will be issued a Permit to Register which includes login information (Username and Password) and instructions on how to register using this system. No-Program students will be registered by the Registry Office.

Course Registrations

It is the responsibility of the student to ensure that he/she is properly registered in courses. Students will receive credit only for courses in which they are registered by the deadline to add courses. Conversely, a student who does not properly withdraw from a course will receive a mark of "0" for that course and will be responsible for all tuition fees. Deadlines for adding and dropping courses are strictly enforced.

Prerequisites

Students may be removed from courses for which they do not have prerequisites. Prerequisite waivers can be granted only by the instructors and must be submitted in writing, with the instructor's signature, to the Registrar.

Residence

Residence Regulations are to be found in the NSAC Student Handbook under Community Standards, and in the Residence Handbook, available at www.nsac.ca/stuserv/.

Student Safety

Students must comply with all safety requirements of the College. This includes safety rules specific to programs and courses.

Student Status

Scholarship students are normally required to be enrolled in four or more courses per semester.

Full-time

Students who are taking three or more credit courses in a semester, are registered in a program, and have ongoing status are full-time students.

Part-time

Students who are taking fewer than three courses, are registered in a program, and have ongoing status are part-time students.

Visiting

Students who are admitted to one or more courses on the basis of a Letter of Permission from another bona fide postsecondary institution are visiting students. Visiting students do not have ongoing student status. That is, if they wished to enrol for another semester they would be required to go through the application for admission process again.

Unclassified

Students who are admitted to one course only with permission of the Registrar and instructor, are not registered in a program of study, and do not have ongoing student status are unclassified students.

No Program

Students may be admitted to one or more courses on a “no-program” basis. Admission is to specified courses on a case-by-case basis. No-program students do not have ongoing student status.

Transcripts

No transcript will be sent to any other institution, business, etc., without the student's authorization in writing.

Withdrawal

Students who wish to withdraw from NSAC must notify the Registrar's Office. Students will not be able to withdraw from all their courses using the Student Information System after the first two weeks of classes and must do this in person at the Registrar's Office. At the time of withdrawal, the student must return the Student ID Card.

Explanation of Terms and Codes

Each course is described by an alpha-numeric code. The alpha prefix identifies the main subject area, and the following digits identify the specific course.

Courses numbered 1000 or higher are taken for degree credit courses. Numbers up to 0999 are offered in Technical programs. Numbers up to 0099 are offered as non-degree requirements. Numbers 5000+ are offered in the Graduate Program.

Courses with an 'A' designation focus on one or more aspects of the agri-food system—the production, management, processing, and marketing of crops and livestock and their products. Other courses may use agricultural examples, but are not designated 'A' because their main focus is not on the agri-food system.

Some first-year core courses are offered by distance delivery in addition to or instead of traditional delivery. These courses are denoted by DE. For information on distance courses see page 12.

Program Codes

BSCAG	Degree (B.Sc.(Agr.))
BTECH	Bachelor of Technology (B.Tech)
ENG	Engineering
MSC	Masters
TY	Technology

Degree**Major****Minor**

AB	Agricultural Business	AB	Agricultural Business
AQ	Aquaculture	AC	Agricultural Chemistry
AS	Animal Science	AS	Animal Science
BSM	Bio-Environmental Systems Management	AEC	Agricultural Economics
AEC	Agricultural Economics	EV	Environmental Sciences
EV	Environmental Sciences	PM	Pest Management
PS	Plant Science	PS	Plant Science
PV	Pre-Veterinary		
NP	No Program, University		

Bachelor of Technology

APS	Applied Science
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EH Environmental Horticulture

Engineering

ENG Engineering

Technology

Major

Specialization

VT Veterinary Technology

AGR Agronomy

EH Environmental Horticulture

ED Edible Horticulture

PS Plant Science

OH Ornamental Horticulture

EMCA Enterprise Management—
 Companion Animal

EMDF Enterprise Management—
 Dairy Farming

EME Enterprise Management—
 Equine

EMF Enterprise Management—
 Farming

EMFR Enterprise Management—
 Food Retail

Undergraduate Degree Program

Bachelor of Science in Agriculture

The Nova Scotia Agricultural College in association with Dalhousie University offers a four-year (40-course) program leading to a degree in Agricultural Science, B.Sc.(Agr.). NSAC students in the Agricultural Sciences who successfully complete the prescribed courses with a Cumulative Grade Average at or above the minimum required (60%), and who are in good standing, will be granted the degree of Bachelor of Science in Agriculture, B.Sc.(Agr.). Graduates of this program

meet the formal educational requirements for Professional Agrologists in the provincial Institutes of Agrologists of the Atlantic Provinces.

Normally, students select a major during their first year at NSAC and continue in that field of study until they graduate.

Majors Offered at NSAC

Agricultural Business
Agricultural Economics
Animal Science
Aquaculture
Bio-Environmental Systems Management
Environmental Sciences
Plant Science

Minors Offered at NSAC

Agricultural Business
Agricultural Chemistry
Agricultural Economics
Animal Science
Environmental Sciences
Pest Management
Plant Science

Admission Requirements

Admission into the B.Sc.(Agr.) program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects, including:

- English
- Pre-Calculus Math (or 70% in Academic Math)*
- any two of the following science requirements: Chemistry*, Biology, Physics*, Geology, Oceanography, or Agriculture one elective.

* Nova Scotia students who have successfully completed five Grade 12 university preparatory credits, including English and Math, are able to use NS Oceans 11 and/or NS Agriculture 11 to meet the above-noted science requirements.

Syllabus

All Majors

Year 1

Semester I

AGRI1000 (IN100)	Agricultural Ecosystems (A) DE
BIOL1000 (B100)	Botany
CHEM1000 (CS101)	General Chemistry I
ECON1000 (EB110)	Principles of Microeconomics* (A) DE
MATH1000 (MP100)	Calculus & Analytic Geometry I

Semester II

BIOL1001 (B110)	Zoology
CHEM1001 (CS102)	General Chemistry II
ECON1000 (EB110)	Principles of Microeconomics* (A) DE
MATH1001 (MP105)	Calculus & Analytic Geometry II
	Elective**

and one of:

ENGL1000 (H113)	Composition
ENGL1001 (H101)	The Novel
ENGL1002 (H102)	Nature in English and American Literature
GEOG1000 (H170)	Introductory Human Geography
SOCI1000 (H160)	Introductory Sociology

* ECON1000 Principles of Microeconomics can be taken in either semester and should be alternated with the choice of ENGL1000, ENGL1001, ENGL1002, GEOG1000, or SOCI1000.

** Students planning to major in Agricultural Business or Agricultural Economics may wish to select ECON100 Principles of Macroeconomics.

Required Courses Past the First Year (required of all students)

STAT2000 (MP210) Introduction to Statistics
RESM4XXX* Project-Seminar I (A)
RESM4XXX* Project-Seminar II (A)
plus two Humanities electives, one of which must be at the 3000 or 4000 level.

* RESM4XXX: Project-Seminar I and RESM4XXX: Project-Seminar II represent the Project-Seminar courses, including RESM4004. Students may take their Project-Seminar courses from any department, but the research topic must be approved by the head of the department responsible for the major in which they are registered.

DE indicates that the course is offered by Distance Education in addition to or instead of by traditional methods of delivery.

Students must complete 12 'A' (Agricultural) courses to be awarded the B.Sc.(Agr.); four 'A' courses are in the College Core (including first year).

Courses with an 'A' designation focus on one or more aspects of the agri-food system—the production, management, processing, and marketing of crops and livestock and their products. Other courses may use agricultural examples, but are not designated 'A' because their main focus is not on the agri-food system.

The purpose of the project-seminar course sequence in the College Core is to give each student the opportunity to pursue independent research in the area of his/her interest. Each student will gain hands-on experience as well as experience in the preparation, design, and analysis of a project in written and oral formats.

Agricultural Business

In addition to the B.Sc.(Agr.) core, students must take the following courses to meet the requirements of this program:

Major

ECON1001 (EB255) Principles of Macroeconomics
ECON2000 (EB200) Intermediate Microeconomics
ECON2002 (EB220) Production Economics (A)
ECON3000 (EB260) Mathematical Economics
ECON3002 (EB320) Agricultural and Food Policy (A)
ECON3003 (EB325) Mathematical Programming
MGMT2002 (EB335) Marketing
MGMT2003 (EB340) Farm Management (A)
MGMT2004 (EB210) Financial Accounting I
MGMT2005 (EB215) Financial Accounting II
MGMT3000 (EB315) Management Accounting
MGMT4000 (EB410) Strategic Management
MGMT4001 (EB445) Advanced Entrepreneurship (A)
STAT3000 (MP211) Intro to Planned Studies: Surveys and Experiments
Electives must include four 'A' courses.

Minor

A minimum of six courses including:

MGMT2002 (EB335)*	Marketing
MGMT2003 (EB340)*	Farm Management (A)
MGMT2004 (EB210)*	Financial Accounting I

*and three of the following**:*

ECON1001 (EB255)	Principles of Macroeconomics
ECON2000 (EB200)	Intermediate Microeconomics
ECON2001 (EB305)	Intermediate Macroeconomics
ECON3002 (EB320)	Agricultural and Food Policy (A)
ECON4002 (EB441)	Topics in Advanced Farm Management (A)
MGMT2001 (EB230)	Introduction to Business Law
MGMT2005 (EB215)	Financial Accounting II
MGMT3000 (EB315)	Management Accounting
MGMT3001 (EB430)	International Marketing
MGMT3002 (EB435)	Consumer Behaviour
MGMT4000 (EB410)	Strategic Management
MGMT4001 (EB445)	Advanced Entrepreneurship (A)
SPEC2000 (EB221)***	Topics in Economics and Business Management (A)
SPEC4005 (EB421)***	Special Topics in Agric. Economics and Business I (A)
SPEC4006 (EB422)***	Special Topics in Agric. Economics and Business II (A)

* If this course is required for a student's major, then the student must substitute another course from the above list.

** Students cannot select courses which are required for their major.

*** Topics must relate to agricultural business.

Recommended Syllabus for a Major in Agricultural Business

Year 2

Semester III

ECON2000 (EB200)	Intermediate Microeconomics
MGMT2004 (EB210)	Financial Accounting I
STAT2000 (MP210)	Introduction to Statistics
	Elective
	Elective

Semester IV

ECON1001 (EB255)	Principles of Macroeconomics I*
ECON2002 (EB220)	Production Economics (A)
MGMT2005 (EB215)	Financial Accounting II
STAT3000 (MP211)	Intro to Planned Studies: Surveys & Experiments
	Elective

Year 3

Semester V

ECON3000 (EB260)	Mathematical Economics
MGMT2002 (EB335)	Marketing
MGMT2003 (EB340)	Farm Management (A)
MGMT3000 (EB315)	Management Accounting
	Elective

Semester VI

ECON3002 (EB320)	Agricultural & Food Policy (A)
ECON3003 (EB325)	Mathematical Programming
	Elective
	Elective
	Elective

Year 4

Semester VII

MGMT4000 (EB410)	Strategic Management
RESM4004 (EB425)	Research Methods for Economics & Business (A)
Elective	
	Elective
	Elective

Semester VIII

MGMT4001 (EB445)	Advanced Entrepreneurship (A)
RESM4005 (EB450)	Project-Seminar for Economics & Business (A)
	Elective
	Elective
	Elective

Electives must include two Humanities courses, one of which must be at the 3000 or 4000 level, and four 'A' courses. (See page Appendix I for a list of courses and their designations.)

Agricultural Economics

In addition to the B.Sc.(Agr.) core, students must take the following courses to meet the requirements of this program:

Major

ECON1001 (EB255)	Principles of Macroeconomics
ECON2000 (EB200)	Intermediate Microeconomics
ECON2001 (EB305)	Intermediate Macroeconomics
ECON3000 (EB260)	Mathematical Economics
ECON3002 (EB320)	Agricultural and Food Policy (A)
ECON3003 (EB325)	Mathematical Programming
ECON3004 (EB330)	Agricultural Markets and Prices (A)
ECON3005 (EB360)	Econometrics
ECON4001 (EB419)	Agri-food Policy Analysis (A)
MGMT2002 (EB335)	Marketing
MGMT2003 (EB340)	Farm Management (A)
MGMT2004 (EB210)	Financial Accounting I

Electives must include four 'A' courses.

Minor

A minimum of six courses including:

ECON2000* (EB200)	Intermediate Microeconomics
ECON3000* (EB260)	Mathematical Economics

*and four of the following**:*

ECON1001 (EB255)	Principles of Macroeconomics
ECON2001 (EB305)	Intermediate Macroeconomics
ECON2002 (EB220)	Production Economics (A)
ECON3001	Environmental Economics
ECON3002 (EB320)	Agricultural and Food Policy (A)
ECON3003 (EB325)	Mathematical Programming
ECON3004 (EB330)	Agricultural Markets and Prices (A)
ECON3005 (EB360)	Econometrics
ECON4000	Advanced Microeconomics
ECON4001 (EB419)	Agri-food Policy Analysis (A)
ECON4002 (EB441)	Topics in Advanced Farm Management (A)
ECON4003	Resource Economics
MGMT2003 (EB340)	Farm Management (A)
SPEC2000 (EB221)***	Topics in Economics and Business Management (A)
SPEC4005 (EB421)***	Special Topics in Agricultural Economics and Business I (A)
SPEC4006 (EB422)***	Special Topics in Agricultural Economics and Business II (A)

* If this course is required for a student's major, then the student must substitute another course from the above list.

** Students cannot select courses which are required for their major.

*** Topics must relate to Agricultural Economics.

Recommended Syllabus for a Major in Agricultural Economics

Year 2

Semester III

ECON2000 (EB200)	Intermediate Microeconomics
MGMT2004 (EB210)	Financial Accounting I
STAT2000 (MP210)	Introduction to Statistics or Elective
	Elective
	Elective

Semester IV

ECON1001 (EB255)	Principles of Macroeconomics*
ECON3004 (EB330)	Agricultural Markets & Prices (A)
STAT2000 (MP210)	Introduction to Statistics or Elective
	Elective
	Elective

Year 3

Semester V

ECON2001 (EB305)	Intermediate Macroeconomics*
ECON3000 (EB260)	Mathematical Economics
ECON3005 (EB360)	Econometrics
MGMT2002 (EB335)	Marketing
MGMT2003 (EB340)	Farm Management (A)

Semester VI

ECON3002 (EB320)	Agricultural and Food Policy (A)
ECON3003 (EB325)	Mathematical Programming

Elective
Elective
Elective

Year 4

Semester VII

ECON4001 (EB419)	Agri-food Policy Analysis (A)
RESM4004 (EB425)	Research Methods for Economics & Business (A)
	Elective
	Elective
	Elective

Semester VIII

RESM4005 (EB450)	Project-Seminar for Economics & Business (A)
	Elective
	Elective
	Elective
	Elective

* Students who successfully complete ECON1001 Principles of Macroeconomics in their first year as an elective may be able to select ECON2001 Intermediate Macroeconomics in the third semester of their second year. STAT2000 is a prerequisite to ECON3005, and should be completed in Semester III or IV.

Electives must include two Humanities courses, one of which must be at the 3000 or 4000 level, and four 'A' courses. (See Appendix I for a list of courses and their designations.)

Animal Science

In addition to the B.Sc.(Agr.) core, students must take the following courses to meet the requirements of this program:

Major

ANSC2000 (AS200)	Animal Agriculture I (A)
ANSC2001 (AS201)	Animal Agriculture II (A)
ANSC3000 (AS310)	Animal Breeding (A)
BIOL2006 (AS230)	Mammalian Physiology
BIOL3008 (AS330)	Growth, Reproduction, and Lactation (A)
CHEM2000 (CS201)	Organic Chemistry I
CHEM3001 (CS302)	Biochemical Pathways
GENE2000 (B240)	Genetics I
NUTR3000 (AS305)	Animal Nutrition
PHYS1002 (MP140)	Physics I or PHYS1000 (MP150)
	Physics for Life Sciences I

plus

two Animal Science courses at the 3000 or 4000 level

one Animal Science course at the 4000 level (RESM4002 and RESM4003 cannot be used)

(These three must be 'A' courses.)

Minor

Any **six** courses approved by the Animal Science Department Program Advisor. The content of the minor will be decided on a student-by-student basis. Students cannot select courses which are required for their major or the College core. Students wishing to take fourth-year module courses (ANSC4000, ANSC4001 series) should note that prerequisite courses must be completed prior to enrollment.

Recommended Syllabus for a Major in Animal Science

Year 2

Semester III

ANSC2000 (AS200)	Animal Agriculture I (A)
CHEM2000 (CS201)	Organic Chemistry I
GENE2000 (B240)	Genetics I
PHYS* or	Elective
	Elective

Semester IV

BIOL2006 (AS230)	Mammalian Physiology
CHEM3001 (CS302)	Biochemical Pathways
PHYS* or	Elective
	Elective
	Elective

Year 3

Semester V

ANSC2001 (AS201)	Animal Agriculture II (A)
BIOL3008 (AS330)	Growth, Reproduction & Lactation (A)
NUTR3000 (AS305)	Animal Nutrition
	Elective
	Elective

Semester VI

ANSC3000 (AS310)	Animal Breeding (A)
RESM4002 (AS449)	Project-Seminar I (A)
	Elective
	Elective
	Elective

Year 4

Semester VII

RESM4003 (AS450)	Project-Seminar II (A)
	Elective
	Elective
	Elective
	Elective

Semester VIII

Elective
Elective
Elective

Elective
Elective

* PHYS—Students must complete the combination of PHYS1000 or PHYS1002 and STAT2000 in Semesters III & IV. If PHYS1000/PHYS1002 is done in Semester III, then STAT2000 will be done in Semester IV. If STAT2000 is done in Semester III, then PHYS1002 will be done in Semester IV.

Electives must include two Humanities courses, one of which must be at the 3000 or 4000 level; two 3000- or 4000-level Animal Science courses; and one 4000-level Animal Science course. Overall four “A” electives are required. (See Appendix I for a list of courses and their designations.)

Aquaculture

In addition to the B.Sc.(Agr.) core, students must take the following courses to meet the requirements of this program:

Major

ANSC3000 (AS310)	Animal Breeding (A)
AQUA2000 (AS210)	Introduction to Aquaculture (A)
AQUA3000 (AS370)	Fish Health (A)
AQUA4000 (AS440)	Finfish Production or
AQUA4001 (AS445)	Shellfish Production
BIOL3005 (AS380)	Physiology of Aquatic Animals (A)
BIOL3006 (AS375)	Aquatic Ecology
CHEM2000 (CS201)	Organic Chemistry I
CHEM3001 (CS302)	Biochemical Pathways
ENGN2004 (AE215)	Aquacultural Environment (A)
ENGN3013 (AE360)	Aquacultural Engineering (A)
GENE2000 (B240)	Genetics I
MGMT2003 (EB340)	Farm Management (A)
MICR2000 (B225)	Microbiology
NUTR3000 (AS305)	Animal Nutrition or
NUTR3002 (AS365)	Fish Nutrition (A)
PHYS1000 (MP150)	Physics for Life Sciences I or
PHYS1002 (MP140)	Physics I

and one of:

ECON4002 (EB441)	Topics in Advanced Farm Management (A)
MGMT1000 (EB225)	Small Business Entrepreneurship
MGMT2002 (EB335)	Marketing
MGMT2004 (EB210)	Financial Accounting I

Recommended Syllabus for a Major in Aquaculture

Year 2

Semester III

AQUA2000 (AS210)	Introduction to Aquaculture (A)
CHEM2000 (CS201)	Organic Chemistry I

GENE2000 (B240)	Genetics I
PHYS* or	Elective
	Elective

Semester IV

CHEM3001 (CS302)	Biochemical Pathways
ENGN2004 (AE215)	Aquacultural Environment (A)
MICR2000 (B225)	Microbiology
PHYS* or	Elective
	Elective

Year 3

Semester V

BIOL3005 (AS380)	Physiology of Aquatic Animals (A)
BIOL3006 (AS375)	Aquatic Ecology
MGMT2003 (EB340)	Farm Management (A)
NUTR3000 (AS305)	Animal Nutrition or Elective
	Elective

Semester VI

ANSC3000 (AS310)	Animal Breeding (A)
AQUA3000 (AS370)	Fish Health (A)
ENGN3013 (AE360)	Aquacultural Engineering (A)
NUTR3002 (AS365)	Fish Nutrition (A) or Elective
RESM4010 (AS449)	Aquaculture Project-Seminar I (A)

Year 4

Semester VII

AQUA4000 (AS440)	Finfish Production or Elective
RESM4011 (AS450)	Aquaculture Project-Seminar II (A)
	Elective
	Elective
	Elective

Semester VIII

AQUA4001 (AS445)	Shellfish Production or Elective
	Elective
	Elective
	Elective
	Elective

* PHYS—Students must complete the combination of PHYS1000 or PHYS1002 and STAT2000 in Semesters III & IV. If PHYS1000/PHYS1002 is done in Semester III, then STAT2000 will be done in Semester IV. If STAT2000 is done in Semester III, then PHYS1002 will be done in Semester IV.

Electives must include two Humanities courses, one of which must be at the 3000 or 4000 level (see Appendix I for a list of courses and their designations), and one of the following:

ECON4002 (EB441)	Topics in Advanced Farm Management (A)
MGMT1000 (EB225)	Small Business Entrepreneurship
MGMT2002 (EB335)	Marketing
MGMT2004 (EB210)	Financial Accounting

Bio-Environmental Systems Management

In addition to the B.Sc.(Agr.) core, students must take the following courses to meet the requirements of this program:

Major

ENGN1003 (AE120)	Properties and Mechanics of Materials
ENGN2000 (AE200)	Environmental Impacts and Resource Management (A)
ENGN2001 (AE202)	Agricultural Machinery
ENGN2002 (AE204)	Introduction to Systems Analysis
ENGN2003 (AE207)	Food Processing Systems (A)
ENGN2006 (AE260)	Surveying
ENGN3001 (AE305)	Engineering Measurements and Controls (A)
ENGN3003 (AE311)	Technology for Precision Agriculture
ENGN3007 (AE320)	Structures and Their Environment (A)
ENGN3009 (AE335)	Materials Handling and Processing (A)
ENGN3010 (AE340)	Soil and Water (A)
ENGN4000 (AE410)	Water and Water Quality Management (A)
ENGN4002 (AE420)	Management of Mechanized Agricultural Systems (A)
MGMT2003 (EB340)	Farm Management (A)
MGMT2004 (EB210)	Financial Accounting I
PHYS1000 (MP150)	Physics for Life Sciences I or
PHYS1002 (MP140)	Physics I

Recommended Syllabus for a Major in Bio-Environmental Systems Management

Year 2

Semester III

ENGN2002 (AE204)	Introduction to Systems Analysis
ENGN2006 (AE260)	Surveying
MGMT2004 (EB210)	Financial Accounting I
PHYS* or	Elective
	Elective

Semester IV

ENGN1003 (AE120)	Properties and Mechanics of Materials
ENGN2001 (AE202)	Agricultural Machinery
PHYS* or	Elective
	Elective ¹
	Elective

Year 3

Semester V

ENGN3007 (AE320)	Structures and Their Environment (A)
ENGN3009 (AE335)	Materials Handling and Processing (A)
ENGN3010 (AE340)	Soil and Water (A)
MGMT2003 (EB340)	Farm Management (A)
	Elective

Semester VI

ENGN2003 (AE207)	Food Processing Systems (A)
ENGN3001 (AE305)	Engineering Measurements & Controls (A)
RESM4000 (AE449)	Bio-Environmental Systems Management Project-Seminar I (A)
	Elective ²
	Elective

Year 4

Semester VII

ENGN2000 (AE200)	Environmental Impacts and Resource Management (A)
ENGN3003 (AE311)	Technology for Precision Agriculture
RESM4001 (AE450)	Bio-Environmental Systems Management Project-Seminar II (A)
	Elective
	Elective

Semester VIII

ENGN4000 (AE410)	Water and Water Quality Management (A)
ENGN4002 (AE420)	Management of Mechanized Agricultural Systems (A)
	Elective
	Elective
	Elective

* PHYS—Students must complete the combination of PHYS1000 or PHYS1002 and STAT2000 in Semesters III & IV. If PHYS1000/PHYS1002 is done in Semester III then STAT2000 will be done in Semester IV. If STAT2000 is done in Semester III, then PHYS1000/1002 will be done in Semester IV.

Electives must include two Humanities courses, one of which must be at the 3000 or 4000 level. CMMT3000 Communication Theory and Skills and EXTE3000 Extension Education in the Rural Community or EXTE3001 Leadership Development and the Social Action Process are recommended. (See Appendix I for a list of courses and their designations.)

¹strongly recommend MGMT2000 Human Resource Management

²strongly recommend ENGN2004 Aquacultural Environment

Recommended Electives:

CHEM2000 (CS201)	Organic Chemistry I
CSCI1000 (MP222)	Computer Methods
ECON2000 (EB200)	Intermediate Microeconomics
ECON3001	Environmental Economics
ECON3002 (EB320)	Agricultural and Food Policy (A)
ECON4003	Resource Economics
ENGN3013 (AE360)	Aquacultural Engineering (A)
ENGN4001 (AE412)	Water Quality Issues (A)
MATH4000 (MP460)	Agricultural Modelling
MGMT2002 (EB335)	Marketing
MGMT4000 (EB410)	Strategic Management
SPEC4012 (AE415)	Directed Studies in Agricultural Engineering (A)
STAT3000 (MP211)	Intro to Planned Studies: Surveys and Experiments

Environmental Sciences

In addition to the B.Sc.(Agr.) core, students must take the following courses to meet the requirements of this program:

Major

BIOL3001 (B330)	Ecology
CHEM2000 (CS201)	Organic Chemistry I
CHEM3001 (CS302)	Biochemical Pathways
ECON2000 (EB200)	Intermediate Microeconomics
ECON3001	Environmental Economics
ENGN4000 (AE410)	Water and Water Quality Management (A)
ENVS2000 (ES200)	Environmental Studies I (A)
ENVS2001 (ES201)	Environmental Studies II (A)
ENVS3001 (ES330)	Environmental Sampling and Analysis
ENVS3002 (ES333)	Waste Treatment and Site Remediation (A)
MICR2000 (B225)	Microbiology
PHYS1002 (MP140)	Physics I or
PHYS1000 (MP150)	Physics for the Life Sciences I
SOIL2000 (CS220)	Introduction to Soil Science (A)
STAT3000 (MP211)	Introduction to Planned Studies: Surveys and Experiments

plus one of the following two courses:

CHEM3009 (ES312)	Environmental Chemistry
ENGN2000 (AE200)	Environmental Impacts & Resource Management (A)

Note: Electives must include three 'A' courses (only two 'A' courses if ENGN2000 is taken).

Within the Environmental Sciences major students may select any one of the following areas of specialization:

Environmental Biology
Environmental Chemistry
Environmental Economics
Environmental Soil Science
Pest Management
Waste Management

Interested students are to consult with the Program Advisor.

Minor

Students intending to declare a minor in Environmental Sciences require a minimum of five courses including ENVS2000 and ENVS2001 plus three other courses approved by the Department of Environmental Sciences. Students may not select courses which are required for their major.

Recommended Syllabus for a Major in Environmental Sciences

Year 2

Semester III

CHEM2000 (CS201)	Organic Chemistry I
ECON2000 (EB200)	Intermediate Microeconomics
ENVS2000 (ES200)	Environmental Studies I (A)

SOIL2000 (CS220)	Introduction to Soil Science (A)
STAT2000 (MP210)	Introduction to Statistics

Semester IV

CHEM3001 (CS302)	Biochemical Pathways
ENVS2001 (ES201)	Environmental Studies II (A)
MICR2000 (B225)	Microbiology
STAT3000 (MP211)	Intro to Planned Studies: Surveys and Experiments
	Elective

Year 3

Semester V

BIOL3001 (B330)	Ecology
ECON3001	Environmental Economics
ENVS3001 (ES330)	Environmental Sampling and Analysis
PHYS1000 (MP150)*	Physics for the Life Sciences I or
PHYS1002 (MP140)*	Physics I or
	Elective
	Elective

Semester VI

CHEM3009 (ES312)	Environmental Chemistry or Elective
ENGN4000 (AE410)	Water and Water Quality Management (A)
ENVS3002 (ES333)	Waste Treatment and Site Remediation (A)
PHYS1000 (MP150)*	Physics for the Life Sciences I or
PHYS1002 (MP140)*	Physics I or
	Elective
	Elective

Year 4

Semester VII

ENGN2000 (AE200)	Environmental Impacts and Resource Management (A) or Elective
RESM4006 (ES449)	Environmental Sciences Project-Seminar I (A)
	Elective
	Elective
	Elective

Semester VIII

CHEM3009 (ES312)	Environmental Chemistry or Elective
RESM4007 (ES450)	Environmental Sciences Project-Seminar II (A)
	Elective
	Elective
	Elective

Note for Years 3 and 4: One of the following two courses is required: ENGN2000 Environmental Impacts and Resource Management (A) or CHEM3009 Environmental Chemistry. CHEM3009 is offered in alternate years.

*Students must take either PHYS1000 or PHYS1002 but not both for credit.

Electives must include one Humanities course at the 3000 or 4000 level, one additional Humanities course at any level (see Appendix I for a list of courses and their designations), and three 'A' courses. However, if ENGN2000 is taken, then only two additional 'A' courses are required.

Plant Science

In addition to the College Core, students must take the following courses to meet the requirements of this program:

Major

BIOL2002 (B260)	Plant Physiology
BIOL2004 (B270)	Structural Botany
BIOL2005 (B300)	Principles of Plant Pathology (A)
BIOL3000 (B320)	General Entomology (A)
BIOL3002 (B335)	Weed Science (A)
CHEM2000 (CS201)	Organic Chemistry I
CHEM3001 (CS302)	Biochemical Pathways
GENE2000 (B240)	Genetics I
PHYS1000 (MP150)	Physics for the Life Sciences I or
PHYS1002 (MP140)	Physics I
zPLSC4001 (PS415)	Crop Adaptation (A)
SOIL2000 (CS220)	Introduction to Soil Science (A)

plus

two Plant Science Production (PDN) Courses

two Plant Science (PS) Elective Courses

one of AGRN4000 (PS405) Agronomy (A) or

HORT4001 (PS410) Horticulture (A)

Electives must include two 'A' courses.

(See Appendix I for a list of courses and their designations.)

Minor

Any five Plant Science degree courses approved by the Plant Science Program Advisor. Students cannot select courses which are required for their major.

Recommended Syllabus for a Major in Plant Science

Year 2

Semester III

CHEM2000 (CS201)	Organic Chemistry I
GENE2000 (B240)	Genetics I
SOIL2000 (CS220)	Introduction to Soil Science (A)
PHYS* or	Elective
	Elective

Semester IV

BIOL2002 (B260)	Plant Physiology
BIOL2004 (B270)	Structural Botany
CHEM3001 (CS302)	Biochemical Pathways
PHYS* or	Elective

Elective

Year 3

Semester V

BIOL2005 (B300)	Principles of Plant Pathology (A)
BIOL3000 (B320)	General Entomology (A)
BIOL3002 (B335)	Weed Science (A)
	Elective
	Elective

Semester VI

RESM4008 (PS449)	Plant Science Project-Seminar I (A)
	Elective
	Elective
	Elective
	Elective

Year 4

Semester VII

PLSC4001 (PS415)	Crop Adaptation (A)
RESM4009 (PS450)	Plant Science Project-Seminar II (A)
	Elective
	Elective
	Elective

Semester VIII

AGRN4000 (PS405)	Agronomy (A) or
HORT4001 (PS410)	Horticulture (A)
	Elective
	Elective
	Elective
	Elective

* PHYS—Students must complete the combination of PHYS1000 or PHYS1002 and STAT2000 in Semesters III & IV. If PHYS1000/PHYS1002 is done in Semester III then STAT2000 will be done in Semester IV. If STAT2000 is done in Semester III, then PHYS1000/1002 will be done in Semester IV. (PHYS1000 is preferred for Plant Science majors.)

Electives must include two Humanities courses, one of which must be at the 3000 or 4000 level, two Plant Science Production (PDN) courses and two additional Plant Science (PS) courses. (See Appendix I for a list of courses and their designations.)

Minor in Agricultural Chemistry

Students intending to declare a minor in Agricultural Chemistry require a minimum of five chemistry courses, including CHEM2000 and CHEM3003. Course selection must be approved by the Department of Environmental Sciences. Students may not select courses which are required for their major.

Minor in Pest Management

Students intending to declare a minor in Pest Management require MICR2000 plus a minimum of three other courses from the following:

BIOL2005 (B300)	Principles of Plant Pathology (A)
BIOL3000 (B320)	General Entomology (A)

BIOL3002 (B335)	Weed Science (A)
ENVS4001 (B406)	Economic Plant Pathology (A)
ENVS4002 (B425)	Economic Entomology (A)
ENVS4003 (B445)	Applied Weed Science (A)

Students may not select courses which are required for their major.

Bachelor of Technology

The Bachelor of Technology (B.Tech) is awarded in association with Dalhousie University. It is a four-year program designed to provide a comprehensive study of specific areas of technology. Graduates of this program will have mastered a number of skills necessary to address present and future advances in technology associated with specific career paths. A balance of communication and technical skills will be achieved.

All majors in the program have an admission requirement of at least two years of postsecondary studies. The majors are designed to provide advanced studies for NSAC diploma graduates and require many of the elements of these programs as a foundation. Applicants from other postsecondary programs will be assessed and may be required to take some qualifying courses upon admission. Each major has specific entrance requirements, and possession of minimum requirements does not guarantee admission.

Bachelor of Technology (Environmental Horticulture)

This Nova Scotia Agricultural College program is designed to prepare students for a career in the landscape horticulture profession. It will prepare students to work successfully in the diverse landscape industry or to create their own businesses within the industry. This major could also lead to graduate study in the area of landscape architecture and related fields.

Admission Requirements

Years one and two of this program are satisfied by the successful completion of the Environmental Horticulture Technology program or a landscape-related program approved by the Department of Environmental Sciences, with a cumulative average of at least 60%. Applicants who meet the general requirements described above (two years postsecondary) may be admitted to the program upon completion of prescribed preparation courses.

Year 3

Spring/Summer Semester

HORT2002 (PS270)	Landscape Horticulture Work Program I (12 weeks)
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Semester V

BIOL1000 (B100)	Botany
CHEM1000 (CS101)	General Chemistry I
ENVS2000 (ES200)	Environmental Studies I (A)
HORT3000 (ES370)	Env Processes & Natural Landscape Functions
SOIL2000 (CS220)	Introduction to Soil Science* or Elective

Semester VI

ENVS2001 (ES201)	Environmental Studies II (A)
MGMT1000 (EB225)	Small Business Entrepreneurship
SOIL3000 (CS320)	Soil Fertility (A)

Elective
Elective

Year 4

Semester VII

BIOL2005 (B300)	Principles of Plant Pathology* (A) or Elective
BIOL3000 (B320)	General Entomology (A)
BIOL3002 (B335)	Weed Science* or Elective
HORT3007 (PS360)	Environmental Horticulture Project ** Elective

Semester VIII

ENVS4001 (B406)	Economic Plant Pathology (A)
ENVS4002 (B425)	Economic Entomology (A)
ENVS4003 (B445)	Applied Weed Science (A) Elective Elective

Note: Students are required to take one Humanities elective at the 2000 level or higher. (See Appendix I for a list of courses and their designations.)

* Students who have completed an equivalent course at the diploma level with a mark of 70% or higher may take an elective in its place.

** HORT3007 may be taken in any semester.

Recommended Electives:

A minimum of 3 electives must be chosen from this list.

BIOL2004 (B270)	Structural Botany
ENGN3015 (AE370)	Irrigation and Drainage
ENVS1000 (ES202)	Composting and Compost Use (A) or
ENVS4004 (CS457)	The Science of Composting and its Application (A)
HORT2003 (PS290)	The British Garden
HORT3001 (ES380)	Landscape Project Management
HORT3004 (PS330)	Greenhouse Crop Production & Floriculture (A)***
HORT3005 (PS335)	Landscape Plant Production (A)
HORT3006 (PS370)	Landscape Horticulture Work Program II
HORT4000 (ES470)	Urban Tree Management
HORT4002 (PS440)	Management of Specialized Turf
HORT4004 (PS460)	Environmental Horticulture Project II **
SOIL3001 (CS345)	Soil Conservation in Agriculture (A)
SPEC4007 (ES401)	Special Topics in Environmental Studies I (A)**
SPEC4008 (ES402)	Special Topics in Environmental Studies II (A)**
SPEC4010 (PS421)	Special Topics in Plant Science I (A)**
SPEC4011 (PS422)	Special Topics in Plant Science II (A)**

** These courses may be taken in any semester. Students are permitted to take no more than two Special Topics courses.

*** Students who complete HORT0201 at the diploma level may not take HORT3004 for credit.

Bachelor of Technology in Applied Science

This program results in the awarding of an Engineering Technology Diploma after successful completion of Year 2, and a Bachelor of Technology in Applied Science after successful completion of Year 4.

Under the auspices of a Memorandum of Understanding (MOU), graduates of the degree program are qualified to apply for direct admission into the Bachelor of Education program in Technology Education offered by Acadia University. Any student planning to continue studies towards a teaching certificate should, in consultation with their Student Advisor, ensure that their program of study includes six courses from a second teachable subject area such as Biology, Chemistry, Economics, or Mathematics.

Admission Requirements

Admission into the Bachelor of Technology in Applied Science program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects including:

- English
- Pre-Calculus Mathematics (or 70% in Academic Math)*
- Physics*
- two electives, preferably Chemistry and Biology.

Students must complete the following courses to complete the requirements of the program:

CSCI1000 (MP222)	Computer Methods
ECON1000 (EB110)	Principles of Microeconomics (A)
ENGL1000 (H113)	Composition
ENGN1001 (AE102)	Design and Graphics
ENGN1003 (AE120)	Properties and Mechanics of Materials
ENGN1004	Wood Construction Technology I
ENGN1005	Metal Construction Technology I
ENGN2001 (AE202)	Agricultural Machinery
ENGN2006 (AE260)	Surveying
ENGN2007	Fluid Power Technology
ENGN2008	Digital Electronics and Computer Interfacing
ENGN3001 (AE305)	Engineering Measurements and Controls
ENGN3009 (AE335)	Materials Handling and Processing
ENGN3018	Technology Modules
ENGN3019	Communications Technology
ENVS2000 (ES200)	Environmental Studies I
ENVS2001 (ES201)	Environmental Studies II
MATH1000 (MP100)	Calculus and Analytic Geometry I
MATH1001 (MP105)	Calculus and Analytic Geometry II
PHYS1002 (MP140)	Physics 1
RESM4000 (AE449)	BESM Project Seminar I
RESM4001 (AE450)	BESM Project Seminar II
	1 English Elective
	1 Social Studies Elective
	5 Technology Electives
	11 Electives

Recommended Syllabus

Year 1

Semester I

ECON1000 (EB110)	Principles of Microeconomics
ENGL1000 (H113)	Composition
ENGN1001 (AE102)	Design and Graphics
ENGN1005	Metal Construction Technology I
MATH1000 (MP100)	Calculus & Analytic Geometry I

Semester II

ENGN1003 (AE120)	Properties & Mechanics of Materials
ENGN1004	Wood Construction Technology I
ENGN2001 (AE202)	Agricultural Machinery
MATH1001 (MP105)	Calculus & Analytic Geometry II
PHYS1002 (MP140)	Physics I

Year 2*Semester III*

CSCI1000 (MP222)	Computer Methods
ENGN2006 (AE260)	Surveying
ENGN3009 (AE335)	Materials Handling & Processing
	Elective*
	Elective*

Semester IV

ENGN2007	Fluid Power Technology
ENGN2008	Digital Electronics & Computer Interfacing
ENGN3001 (AE305)	Engineering Measurements & Controls
	Elective*
	Elective*

The Engineering Technology Diploma is conferred upon successful completion of Year 2.

Year 3*Semester V*

ENGN3019	Communications Technology
ENVS2000 (ES200)	Environmental Studies I
	Elective
	Elective
	Elective

Semester VI

ENGN3018	Technology Modules
ENVS2001 (ES201)	Environmental Studies II
RESM4000 (AE449)	Bio-Environmental Systems
	Management Project-Seminar I
	Elective
	Elective

Year 4*Semester VII*

RESM4001 (AE450)	Bio-Environmental Systems
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Management Project-Seminar II
 Elective
 Elective
 Elective
 Elective

Semester VIII

Elective
 Elective
 Elective
 Elective
 Elective

* Two of the four electives in Year 2 must be from the list of Technology Electives.

The following lists contain courses qualifying as electives in the designated study areas required of the program. It is the student's responsibility to ensure that any prerequisite requirements for taking any of the courses listed are met.

Technology Electives

ENGN2000 (AE200)	Environmental Impacts and Resource Management (A)
ENGN2002 (AE204)	Introduction to Systems Analysis
ENGN2004 (AE215)	Aquacultural Environment (A)
ENGN2009	Metal Construction Technology II
ENGN2010	Wood Construction Technology II
ENGN3003 (AE311)	Technology for Precision Agriculture
ENGN3007 (AE320)	Structures and their Environment
ENGN3010 (AE340)	Soil and Water (A)
ENGN3013 (AE360)	Aquacultural Engineering (A)
ENGN3016 (AE380)	Engineering Economy
ENGN4000 (AE410)	Water and Water Quality Management (A)

Social Studies Electives

CMMT3000	Communication Theory and Skills**
ECON1001 (EB255)	Principles of Macroeconomics
EXTE3000 (H320)	Extension Education in the Rural Community
EXTE3001 (H321)	Leadership Development and the Social Action Process
GEOG1000 (H170)	Introductory Human Geography
GEOG3000 (H370)	Rural Geography**
HIST1000	Introduction to Canadian History I: 1000-1867
HIST1001	Introduction to Canadian History II: 1867-present
HIST3000 (H301)	Rural History**
PHIL3000 (H350)	Environmental and Agricultural Ethics
POLS1000	Introduction to Political Science
POLS1001	Structure and Function of Government
SOCI1000 (H160)	Introductory Sociology
SOCI1001	Introductory Sociology II
SOCI3000 (H360)	Rural Sociology

** Students intending to get their B.Ed. (Technology Education) degree must take one of these electives to meet provincial teacher licensing requirements. All 3000-level Social Studies courses have prerequisites.

English Electives

ENGL1001 (H101)	The Novel
ENGL1002 (H102)	Nature in English and American Literature
ENGL3000 (H310)	Literature of Atlantic Canada

Engineering Diploma

The Engineering Diploma program is the 22-course Associated Universities program given in conjunction with Dalhousie University's Faculty of Engineering. Students who successfully complete this program at NSAC receive an Engineering Diploma.

As Dalhousie University and the Associated Universities (AUs) form a unified system of engineering education, all diploma graduates from the AUs are guaranteed admission to Dalhousie. Students at the AUs will normally apply to disciplines at Dalhousie at the end of their first year in engineering since some discipline-specific courses are required in Year 2. They will be granted placeholder status on the basis of their averages and the availability of seats in the discipline. These placeholders will be assured continuance if the standards for promotion are met by the student at the AU in Year 2. Placeholders are valid for one year, although holders may reapply. Those who elect the Biosystems (Agricultural) or Environmental Engineering disciplines at Dalhousie University, which are sponsored jointly by Dalhousie and NSAC, may elect to complete them as co-op programs.

Students are free to apply for transfer to Dalhousie before completion of the engineering diploma, subject to Dalhousie's course transfer regulations—this is an important consideration for those requiring discipline-specific courses not offered at a particular AU. This B.Eng. program leads to recognition by the provincial Associations of Professional Engineers.

Admission Requirements

Admission into the Engineering program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects including:

- English
- Pre-Calculus Mathematics (or 70% in Academic Math)*
- Chemistry*
- Physics*
- one elective

Graduation Requirements

The academic requirements for the Engineering Diploma are successful completion of:

- all courses specified in the syllabus of courses
- at least 22 semester courses
- at least 11 courses at NSAC, including 6 of the last 10 required courses.

The minimum level of academic achievement to graduate is a cumulative average of 60%.

Syllabus

Year 1

Semester I

CHEM1000 (CS101)	General Chemistry I
ENGL1002 (H102)*	Nature in English and American Literature
ENGN1001 (AE102)	Design and Graphics
MATH1000 (MP100)	Calculus and Analytic Geometry I

PHYS1002 (MP140) Physics I

Semester II

CHEM1001 (CS102)	General Chemistry II
ENGN1002 (AE110)	Statics
MATH1001 (MP105)	Calculus and Analytic Geometry II
PHYS1003 (MP145)	Physics II
	Humanities*

Year 2

Semester III

CSCI2000 (MP220)	Computer Science
ENGN3000 (AE300)	Electric Circuits
	Discipline-specific
	Discipline-specific
	Discipline-specific
	Discipline-specific

Semester IV

MATH2001 (MP236)	Differential Equations
STAT2001 (MP212)	Probability & Statistics for Engineering
	Discipline-specific
	Discipline-specific
	Discipline-specific
	Discipline-specific

Note: The following discipline-specific courses are required for each engineering discipline:

Engineering Diploma Program—Required Discipline-Specific Courses

Semester III

Biosystems	ENGN2005 Dynamics	CHEM2000 Organic Chemistry I	BIOL1000 Botany	Humanities (Agricultural)
Chemical	ENGN2000 Envmtl Impacts & Resource Mgt	ENGN3002 Thermodynamics	MATH2000 Multivariable Calculus	CHEM2000 Organic Chemistry I
Civil	ENGN20005 Dynamics	ENGN3002 Thermodynamics	MATH2000 Multivariable Calculus	Humanities
Electrical	ENGN3004 Digital Circuits	ENGN3002 Thermodynamics	MATH2000 Multivariable Calculus	Humanities
Environmental	ENGN2000 Envmtl Impacts & Resource Mgt	CHEM2000 Organic Chemistry I	BIOL1000 Botany	Humanities
Industrial	ENGN2005 Dynamics	ENGN3002 Thermodynamics	MATH2000 Multivariable Calculus	Humanities

Mechanical	ENGN2005 Dynamics	ENGN3002 Thermodynamics	Humanities	Humanities
Metallurgical	ENGN2005 Dynamics	ENGN3002 Thermodynamics	MATH2000 Multivariable Calculus	Humanities
Mining	ENGN2005 Dynamics	ENGN3002 Thermodynamics	MATH2000 Multivariable Calculus	Humanities

Semester IV

Biosystems	ENGN3006 Strength of Materials	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	BIOL1001 Zoology (Agricultural)
Chemical	ENGN3005 Fund of Chem Engineering	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	Humanities
Civil	ENGN3006 Strength of Materials	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	GEOL2000 Intro to Geology
Electrical	MATH3000 Applied Linear Algebra	CSCI3000 Data Structures & Num. Methods	ENGN3008 Circuit Analysis	ENGN3017 Design Project
Environmental	GEOL2000 Intro to Geology	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	BIOL1001 Zoology
Industrial	ENGN3006 Strength of Materials	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	Humanities
Mechanical	ENGN3006 Strength of Materials	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	ENGN3017 Design Project
Metallurgical	ENGN3006 Strength of Materials	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	Humanities
Mining	ENGN3006 Strength of Materials	ENGN3011 Fluid Mechanics	ENGN3016 Engineering Economy	Humanities

Notes:

Prior to graduation from Dalhousie University's Faculty of Engineering, students must complete one Technical Communications course and two Writing Courses. It is possible to complete all of these requirements by taking the appropriate combination of courses while at NSAC.

- Technical Communications course credit: ENGL1000 in combination with ENGN1001 and CSCI2000 satisfies this requirement.
- Writing course credits: Any of the following NSAC courses qualify—ENGL1000, ENGL1001, ENGL1002, SOCI1000, and GEOG1000.

* Humanities courses: Any course with the designation ENGL, SOCI, GEOG, ARTS, HIST, PHIL, or POLS will qualify for credit towards the Engineering Diploma.

Biosystems (Agricultural) Engineering and Environmental Engineering

These two disciplines of engineering are taught and administered jointly by the Engineering Department of NSAC and the Biological Engineering Department, Dalhousie University's Faculty of Engineering. They are both co-operative programs but, unlike programs of other engineering disciplines, they are based on both biological and engineering science principles. This makes it practical for students to transfer after Year 1 of the B.Sc.(Agr.) program into Year 2 of these engineering programs.

Students in these disciplines who complete the two-year engineering diploma enter Dalhousie University's Faculty of Engineering in Year 3 and can then return to NSAC in Semester VII to study specialized Agricultural Engineering, Agricultural, Aquacultural, and Environmental Science courses.

Graduates of these B.Eng. programs will meet the formal education requirements for admission to the provincial Associations of Professional Engineers and the provincial Institutes of Agrologists.

Pre-Veterinary Medicine

Students prepare to enter the program leading to a Doctor of Veterinary Medicine at the Atlantic Veterinary College (University of Prince Edward Island) by completing a two-year program at NSAC. Students who have completed this Pre-Veterinary program are considered to have completed the first two years of the B.Sc.(Agr.) and are eligible to switch into one of the other majors at the NSAC.

NSAC Admission Requirements

Admission into the Pre-Veterinary program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects, including:

- English
- Pre-Calculus Math (or 70% in Academic Math)*
- any two of the following science requirements: Chemistry*, Biology, Physics*, Geology, Oceanography, or Agriculture
- one elective

* NS students who have successfully completed five Grade 12 university preparatory credits, including English and Math, are able to use NS Oceans 11 and/or NS Agriculture 11 to meet the above-noted science requirements.

Atlantic Veterinary College Admission Requirements

The following is the minimum academic requirement for application for admission to the Atlantic Veterinary College (AVC) at the University of Prince Edward Island. It is the student's responsibility to ensure that the requirements are met. Students should consult the latest UPEI calendar to make sure that there have been no changes. Twenty, one-semester courses or equivalent are required. Students are required to be registered in at least five credit courses per semester. These include:

- Biology: four courses, including Genetics and Microbiology
- Chemistry: three courses, including Organic Chemistry
- English: two courses, including one with emphasis on writing
- Humanities and Social Sciences: three courses
- Mathematics: two courses, including Statistics
- Physics: one course
- Electives: five from any discipline.

Science courses will normally have a laboratory component.

Students need to be enrolled in 5 degree-level credits per semester to meet AVC admission requirements.

See Appendix III for a list of NSAC courses that meet AVC Admission Requirements

Recommended Syllabus

Year 1

Semester I

AGRI1000 (IN100)	Agricultural Ecosystems* (A) DE
BIOL1000 (B100)	Botany
CHEM1000 (CS101)	General Chemistry I
ENGL1000 (H113)	Composition
MATH1000 (MP100)	Calculus & Analytic Geometry I

Semester II

BIOL1001 (B110)	Zoology
CHEM1001 (CS102)	General Chemistry II
ECON1000 (EB110)	Principles of Microeconomics* (A) DE
ENGL1001 (H101)	The Novel
MATH1001 (MP105)	Calculus & Analytic Geometry II*

Year 2

Semester III

ANSC2000 (AS200)	Animal Agriculture I* (A)
CHEM2000 (CS201)	Organic Chemistry I
GENE2000 (B240)	Genetics I
PHYS** Physics or STAT2000 (MP210)	Introduction to Statistics Humanities/SS Elective***

Semester IV

BIOL2006 (AS230)	Mammalian Physiology*
CHEM3001 (CS302)	Biochemical Pathways*
MICR2000 (B225)	Microbiology
PHYS** Physics or STAT2000 (MP210)	Introduction to Statistics Humanities/SS Elective***

* May substitute another elective; check requirements of specific options to complete a degree at NSAC.

** PHYS1000 Physics for Life Sciences I or PHYS1002 Physics

*** Any Humanities or Economics (ECON) course will fit the requirement of Humanities or Social Science Elective (see Appendix I for a list of courses and their designations).

Technology Programs

The Nova Scotia Agricultural College offers specialized two-year programs to prepare students for careers associated with laboratory techniques in Veterinary Technology, and with the

practice of Environmental Horticulture, Plant Science and Enterprise Management. These studies lead to a Diploma of Technology in each of these areas.

General Information

A candidate for these programs may qualify for admission with high school completion or equivalent. See syllabus of each program for specific admission requirements.

Each candidate must be available for an interview, if requested.

Students who successfully complete all the requirements will be granted a Diploma of Technology. Until August 2006, a High Honours diploma will be awarded to a student who has attained an average of at least 80%, and an Honours diploma will be awarded to one who has attained an average of at least 75%. Effective September 2006, a High Honours diploma will be awarded to a student who has attained an average of at least 90%, and an Honours diploma will be awarded to one who has attained an average of at least 80%.

It is the student's responsibility to see that the requirements for the diploma are fulfilled.

Diploma in Enterprise Management

The Diploma in Enterprise Management (DEM) is a new program designed to provide the fundamentals of business management and at the same time allow students to specialize in one of the following areas: dairy, farming, equine, companion animal or food retail. This two-year technology program provides students with the management, communication, and leadership skills necessary to manage a business such as a farm, stable, pet, or food retail operation. Careers in marketing, sales, or service are other options.

Students choose one of the following options:

Dairy Farm—This specialization is designed for students interested in a career in the dairy industry whether it is operating their own dairy farm, working as a herds person, or employed in sales or service for the dairy industry

Equine—This specialization is designed specifically for those students interested in someday owning or managing an equine-related business. It provides students who have a passionate interest in horses to study something they love and at the same time receive a solid business education which is directly transferable to any type of business operation.

Farming—Students planning to operate/manage a farm or who wish to work in the agricultural industry in sales or service should choose this specialization. Along with the primary emphasis on business, students pick and choose among a number of livestock, field crop or horticulture electives to develop a program best suited to their long-term career interests.

Companion Animal—This specialization is best suited for students interested in working in the pet industry as either owners or managers of pet-related businesses. Sales and service are other areas of employment e.g. managing the pet section of a department store or selling pet care products to other businesses. Along with the business courses, students will study the care and management of small animals, reptiles, and fish.

Food Retail—This program is designed for people who are interested in a career in the food industry and who want a thorough understanding of how food is produced. Career possibilities include produce manager, meat manager, or owner/manager of agri-food operation.

This diploma program is a unique mix of full-credit courses and courses designated as workplace readiness courses (non-credit). The workplace readiness courses develop the practical skills and knowledge required to work in business and in the area of specialty. The workplace readiness courses common to all the options include: career preparation, public speaking, first aid, Occupational Health and Safety, WHMIS, business ethics, and professionalism. Specialty workplace readiness courses are specific to the area chosen, e.g. dairy medicines and HACCP for the dairy farming option. Some of these courses will be scheduled throughout the semester, and others will be offered at the beginning of the semester. Students may be required to bring protective clothing and footwear, depending on the option chosen.

Some of the options—Farming, Companion Animal and Food Retail—have an internship requirement for the spring and summer semesters. Students will be expected to obtain employment in their area of specialty and complete a designated list of competencies. The employers will be expected to complete an assessment of the student's performance. See the course descriptions for more details.

Students who successfully complete all the requirements of the DEM will be granted a Technology Diploma and thus become Associates of the Nova Scotia Agricultural College. It is the student's responsibility to see that the requirements for the diploma are fulfilled. Students who wish to continue on to complete a degree will be given advanced standing in our degree programs.

Admission Requirements

Admission into this program requires high school graduation with:

- Grade 12 Academic English
- Grade 11 Academic Math
- Biology 11 or Chemistry 11 or Agriculture
- Integrated Science 10 or equivalent.

In addition the following are required for entry into specific programs:

Dairy—The student is expected to be experienced in the care and handling of dairy animals. Resumés and letters of recommendation demonstrating practical experience and knowledge will be required.

Equine—The student is expected to be experienced in the care and handling of horses. Resumés and letters of recommendation demonstrating practical experience and knowledge will be required.

Diploma in Enterprise Management—Dairy Farm

Year 1

Semester I

ACAD0020	Skills for Academic Success*
ANSC0020	Dairy Industry I*
ANSC0112	Animal Biology and Management I
ECON0100	Introductory Microeconomics
ENGL0101	Writing For Business
MATH0100	Business Math
MGMT0100	Accounting
SOIL0100	Principles of Soil Science

Semester II

AGRN0202	Cropping Systems II
ANSC021	Dairy Industry II*
ANSC0113	Animal Biology and Management II
ANSC0114	Animal Feed and Nutrient Management
CMMT0020	Career and Employment Skills*
ENGN2001	Agricultural Machinery
MGMT0101	Applied Accounting & Taxation
SOIL0200	Soil Management

Year 2

Semester III

AGRN0201	Cropping Systems I
ANSC0204	Dairy Herd Health and Nutrition Management
ANSC0205	Optimizing Bovine Reproductive and Genetic Performance
ENGN0200	Environmental Management
MGMT0020	Business Leadership, Ethics, and Professionalism*
MGMT0102	Agricultural Marketing
MGMT2003	Financial Management

Semester IV

ANSC0206	Managing Dairy Milking Systems and Housing Facilities
ANSC0207	Records Management and Decision Making for Dairy Herds
CMMT0021	Introduction to Public Speaking*
ECON2002	Production Economics
MGMT0201	Business Project
MGMT2000	Human Resource Management
MGMT2001	Introduction to Business Law

* Workplace Readiness Course

Additional Workplace Readiness Courses Required:

WHMIS
First Aid
OHS
Farm Safety
On-Farm HACCP
Dairy Medicines Course

Diploma In Enterprise Management—Farming

Year 1

Semester I

ACAD0020	Skills for Academic Success*
ECON0100	Introductory Microeconomics
ENGL0101	Writing For Business
MATH0100	Business Math
MGMT0100	Accounting

SOIL0100	Principles of Soil Science
PLSC0100	Utilization of Plant Resources or
ANSC0112	Animal Biology and Management I or
ANSC0115	Introduction to Animal Production**

Semester II

CMMT0020	Career and Employment Skills*
MGMT0101	Applied Accounting & Taxation
MGMT1000	Small Business Entrepreneurship
SOIL0200	Soil Management
	Elective
	Elective
	Elective

Semester III Spring/summer semester

INTE0100	Internship
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Semester IV

ENGN0200	Environmental Management
MGMT0020	Business Leadership, Ethics, and Professionalism*
MGMT0102	Agricultural Marketing
MGMT2003	Financial Management
	Elective
	Elective
	Elective

Semester V

CMMT0021	Introduction to Public Speaking*
MGMT2001	Introduction to Business Law
MGMT2000	Human Resource Management
ECON2002	Production Economics
MGMT0201	Business Project
FOOD0020	Topics in Agriculture and Food Enterprise Management*
	Elective
	Elective

* Workplace Readiness Course

Additional Workplace Readiness Courses Required

WHMIS

First Aid

OHS

Farm Safety

On-Farm HACCP or QA

Livestock Medicines Course (Students interested in livestock production)

** ANSC0115 Introduction to Animal Production is appropriate for students who wish to take only one livestock course during their program. It is not suitable for students interested in concentrating on livestock production.

Elective Selection for the Farming Option

Students can select elective courses from a number of areas including agronomy, horticulture, and animal science. Distance Education courses on specific topic areas such as beef and sheep are also available. Students will need to consult with the Farming Program Advisor to assist in the selection of courses best suited to their future career plans

Diploma in Enterprise Management—Equine

Year 1

Semester I

ACAD0020	Skills for Academic Success*
ANSC0022	Equine Industry *
ANSC0112	Animal Biology and Management I
ECON0100	Introductory Microeconomics
ENGL0101	Writing For Business
MATH0100	Business Math
MGMT0100	Accounting
SOIL0100	Principles of Soil Science

Semester II

AGRN0202	Cropping Systems II
ANSC0113	Animal Biology and Management II
ANSC0114	Animal Feed and Nutrient Management
CMMT0020	Career and Employment Skills*
MGMT0101	Applied Accounting & Taxation
MGMT1000	Small Business Entrepreneurship
SOIL0200	Soil Management

Year 2

Semester III

ANSC0213	Equine Health & Nutrition
ANSC0214	Equine Growth, Genetics and Reproduction
ENGN0200	Environmental Management
MGMT0020	Business Leadership, Ethics, and Professionalism*
MGMT0203	Customer Relations Management
MGMT2002	Marketing
MGMT2003	Financial Management

Semester IV

ANSC0023	Equine Workshop*
ANSC0215	Equine Facilities Management
ANSC0216	Equine Health & Fitness
ANSC2003	Companion Animal Behaviour
CMMT0021	Introduction to Public Speaking*
MGMT0201	Business Project
MGMT2000	Human Resource Management
MGMT2001	Introduction to Business Law

* Workplace Readiness Course

Additional Workplace Readiness Courses Required

WHMIS
First Aid
OHS
Work Safety
HACCP or QA
Equine Medicines Course

Diploma In Enterprise Management—Companion Animal

Year 1

Semester I

ACAD0020	Skills for Academic Success*
ANSC0116	The Companion Animal Enterprise
ECON0100	Introductory Microeconomics
ENGL0101	Writing For Business
MATH0100	Business Math
MGMT0100	Accounting
MGMT2002	Marketing

Semester II

ANSC0117	Companion Animal Growth, Development, and Nutrition
ANSC2003	Companion Animal Behaviour
CMMT0020	Career and Employment Skills*
MGMT0101	Applied Accounting & Taxation
MGMT1000	Small Business Entrepreneurship
MGMT2006	Advertising and Promotion
ANSC0208	The Biology and Care of Aquarium Fish and Reptiles** or
ANSC0209	The Biology and Care of Avian and Small Animal Species**

Semester III Spring/summer semester

INTE0100	Internship
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Year 2

Semester IV

ANSC0210	Introduction to Companion Animal Health
ANSC0212	Companion Animal Genetics and Reproduction
MGMT0020	Business Leadership, Ethics, and Professionalism*
MGMT0202	Managing Retail Operations and Physical Resources
MGMT0203	Customer Relations Management
MGMT2003	Financial Management

Semester V

ANSC0211	Companion Animal Facilities Management
CMMT0021	Introduction to Public Speaking *
MGMT0201	Business Project
MGMT2000	Human Resource Management
MGMT2001	Introduction to Business Law
MGMT2007	Retail Sales Management
ANSC0208	Biology and Care of Aquarium Fish and Reptiles** or
ANSC0209	Biology and Care of Avian and Small Animal Species**

* Workplace Readiness Course

Additional Workplace Readiness Courses Required

WHMIS

First Aid

OHS

Workplace Safety

Kennel Duty***

** Courses are offered in alternate years

*** Students will be expected to complete 40 hours of kennel duty as part of the requirements for the program. This may be completed at the Boulden Animal Centre, an animal shelter, or any acceptable animal facility.

Diploma in Enterprise Management—Food Retail

Year 1

Semester I

ACAD0020	Skills for Academic Success*
ANSC0115	Introduction to Animal Production
ENGL0101	Writing For Business
MATH0100	Business Math
MGMT0100	Accounting
MGMT2002	Marketing
PLSC0100	Utilization of Plant Resources

Semester II

ANSC0118	Animal Products
CMMT0020	Career and Employment Skills*
FOOD0100	Food Components Preparation, Selection and the Human Diet
MGMT0101	Applied Accounting & Taxation
MGMT1000	Small Business Entrepreneurship
MGMT2006	Advertising and Promotion
PLSC0203	Plant Products Physiology

Semester III Spring/summer semester

INTE0100	Internship
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Year 2

Semester IV

ECON0100	Introductory Microeconomics
FOOD0200	Food Safety and Quality Management
MGMT0020	Business Leadership, Ethics, and Professionalism*
MGMT0202	Managing Retail Operations and Physical Resources
MGMT0203	Customer Relations Management
MGMT2003	Financial Management
	Elective

Semester V

CMMT0021	Introduction to Public Speaking *
FOOD0020	Topics in Agriculture and Food Enterprise Management*
MGMT0201	Business Project
MGMT2000	Human Resource Management
MGMT2001	Introduction to Business Law
MGMT2007	Retail Sales Management
	Elective
	Elective

* Workplace Readiness Course

Additional Workplace Readiness Courses Required

WHMIS

First Aid

OHS

Workplace Safety

Safe Food Handling Course (e.g. National Sanitation Program, Serve Safe, or In Good Hands)

Basic HACCP or QM

Elective Selection for the Food Retail Option

Students can select elective courses from a number of areas including agronomy, horticulture, and animal science. Students will need to consult with the Food Retail Program Advisor to assist in the selection of courses best suited to their future career plans.

Environmental Horticulture

The Nova Scotia Agricultural College offers this two-year program to help prepare students for careers with landscaping firms, planning agencies, recreational parks, or institutions, or in self-employed roles as landscape horticultural technologists.

Admission Requirements

Admission into the Environmental Horticulture Technology program requires high school graduation with an average of at least 60% in five university preparatory subjects including:

- Grade 12 English
- Grade 12 Mathematics
- Grade 12 Biology
- one Grade 12 elective
- Grade 11 Chemistry.

Syllabus

Year 1

Semester I

BIOL0200 (B43) Entomology

CSCI1000 (MP222) Computer Methods

HORT0100 (ES60) Landscape Plants I

HORT0102 (PS47) Turfgrass Production and Management

HORT0103 (PS50) Landscape Horticulture I

SOIL0100 (CS12) Principles of Soil Science

Semester II

BIOL0101 (B40) Plant Pathology

BIOL0102 (PS45/B41)	Plant Physiology & Stress Management
BIOL0103 (B46)	Weed Science
ENGN0101 (AE38)	Horticultural Engineering
HORT0101 (ES61)	Landscape Plants II
SOIL0200 (CS13)	Soil Management

Spring Session

HORT0206 (PS70)	Landscape Techniques—12 weeks
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Year 2

Semester III

ENGL0101	Writing for Business
ENGN0100 (AE14)	Surveying
HORT0204 (ES62)	Landscape Plants III
HORT0207 (PS71)	Arboriculture
	Elective
	Elective
	Elective

Semester IV

CMMT0101 (H60)	Communication Skills
HORT0208 (PS72)	Landscape Maintenance
MGMT2000 (H140)	Human Resource Management
	Elective
	Elective
	Elective

Recommended Electives:

A minimum of four of the six electives must be chosen from this list.

ENGN1000 (AE101)	Computer Aided Graphics and Projection
ENGN0102 (AE46)	Soil and Water Resources Management
ENGN1004	Wood Construction Technology I
HORT0200 (PS38)	Nursery Crop Production
HORT0201 (PS39)	Greenhouse Crop Management
HORT0202 (PS43)	Small Fruit Crops
HORT0203 (PS44)	Tree Fruit Crops
HORT0205 (PS51)	Residential Landscape Design and Construction
HORT0209 (PS73)	Landscape Horticulture II
HORT0210 (PS74)	Landscape Design and Construction
HORT2000 (PS200)	Vegetable Production
HORT2001 (PS210)	Principles of Organic Horticulture
MGMT0100 (EB10)	Accounting
MGMT2001 (EB230)	Introduction to Business Law
PLSC0200 (PS55)	Plant Propagation
PLSC0201 (PS90)	Technology Project
PLSC0203 (PS76)	Plant Products Physiology

Plant Science Technology

This two-year program takes an entrepreneurial approach to agriculture, stressing a combination of practical skills and good basic knowledge; students learn in the context of social

and environmental responsibility using sustainable production systems. Graduates will be skilled in problem-solving, diagnostics and whole-system analysis.

The first two semesters are common for the three areas of concentration (ornamental horticulture, edible horticulture, and agronomy). This allows the student flexibility in choosing options and selecting courses in the second year. The first-year courses provide students with a strong background in plant production techniques and small business practices preparing them for their required summer work experience in PS99 Plant Science Techniques. In their second year of study, students concentrate in their area of specialization, allowing them to tailor their education by selecting from more specialized courses.

A student who has successfully completed the first year of this program with a good study record may apply for acceptance into a two-year program in Farming Technology. A student who has successfully completed the two years with a good study record may apply for acceptance into a one-year program in Agricultural Technology.

Admission Requirements

Admission into the Plant Science Technology program requires high school graduation with an average of at least 50% in four university preparatory courses including:

- Grade 12 English
- Grade 11 Mathematics
- Grade 11 Chemistry
- Grade 10 Biology or Integrated Science.

Syllabus

Year 1

Semester I

BIOL0200 (B43)	Entomology
ENGL0101	Writing for Business
MGMT0100 (EB10)	Accounting
PLSC0100 (PS35)	Utilization of Plant Resources
PLSC0200 (PS55)	Plant Propagation
SOIL0100 (CS12)	Principles of Soil Science

Semester II

BIOL0101 (B40)	Plant Pathology
BIOL0102 (PS45/B41)	Plant Physiology and Stress Management
BIOL0103 (B46)	Weed Science
CSCI1000 (MP222)	Computer Methods
MGMT1000 (EB225)	Small Business Entrepreneurship
MGMT2000 (H140)	Human Resource Management

Semester III (Spring/Summer)

PLSC0202 (PS99)	Plant Science Techniques
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Semester IV and Semester V

After the 12 core courses are taken in the first year, students must choose 12 more courses to complete the diploma. Each student chooses an area of specialization from the three shown below. Each area has 7 core courses, including the summer course PLSC0202 Plant Science Techniques. The student then chooses 5 more elective courses (at least 3 from the “recommended electives” group) to complete the 24 credits.

Ornamental Horticulture

Semester IV

HORT0100 (ES60)	Landscape Plants I
HORT0103 (PS50)	Landscape Horticulture I
HORT0201 (PS39)	Greenhouse Crop Management
	Elective
	Elective
	Elective

Semester V

ENGN0101 (AE38)	Horticultural Engineering
HORT0101 (ES61)	Landscape Plants II
HORT0200 (PS38)	Nursery Crop Production
	Elective
	Elective

Edible Horticulture

Semester IV

AGRN0201 (PS52)	Cropping Systems I: Cereal-Based Systems
ENGN0200	Environmental Management
HORT2000 (PS200)	Vegetable Production (A)
HORT0202 (PS43)	Small Fruit Crops
PLSC0020	Farm Workplace Skills Module
	Elective
	Elective

Semester V

AGRN0200 (PS49)	Potato Production
HORT0203 (PS44)	Tree Fruit Crops
	Elective
	Elective
	Elective

Agronomy

Semester IV

AGRN0201 (PS52)	Cropping Systems I: Cereal-Based Systems
ANSC0112	Animal Biology and Management I
ENGN0200	Environmental Management
PLSC0020	Farm Workplace Skills Module
	Elective
	Elective
	Elective

Semester V

AGRN0200 (PS49)	Potato Production
AGRN0202 (PS56)	Cropping Systems II: Forage-Based Systems
ANCS0113	Animal Biology and Management II
	Elective
	Elective

Recommended Electives:

ANSC0114	Animal Feed and Nutrient Management
ENGN0101 (AE38)	Horticultural Engineering
ENGN2001 (AE202)	Agricultural Machinery
ENGN3003 (AE311)	Technology for Precision Agriculture
HORT0102 (PS47)	Turfgrass Production and Management
HORT0204 (ES62)	Landscape Plants III
HORT2001 (PS210)	Principles of Organic Horticulture
MGMT0102 (EB40)	Agricultural Marketing
MGMT2001 (EB230)	Introduction to Business Law
MGMT2003 (EB340)	Farm Management (A)
PLSC0203 (PS76)	Plant Products Physiology
PLSC1000 (PS147)	Farm Woodlot Management (A)
PLSC2000 (PS211)	Specialty Crops

or other courses approved by the Department of Plant & Animal Sciences.

Plant Science core courses from the other areas of concentration may also be used as recommended electives: HORT0100, HORT0204, HORT0200, HORT0201, HORT0202, HORT0203, AGRN0200, HORT0103, HORT2000.

Veterinary Technology

The Veterinary Technology Program prepares graduates with the skills and knowledge required to enter veterinary practice as technical assistants to veterinarians. Veterinary technicians have also made successful careers in a variety of other fields, including the management of animal shelters; research with animals in universities and for private companies; sales for veterinary supply companies, and employment with zoos and in wildlife rehabilitation.

The Veterinary Technology Program at NSAC is a two year program with four standard semesters and an intersession after the first year. In addition to on campus learning there are off campus externships at the Atlantic Veterinary College and in general veterinary practice. To reflect the major employment opportunities in Atlantic Canada, the program is oriented mainly towards companion animals. The modest large animal content is appropriate for graduates entering mixed practice and for those who wish to further develop their livestock or equine competence. In the VT program's Boulden Animal Clinic, under the supervision of veterinarians and veterinary technicians, students learn the skills and tasks required of them in companion animal practice.

The AHT Program at NSAC is accredited by the Canadian Veterinary Medical Association (CVMA). Re-accreditation of the new Veterinary Technology program is due in the Winter of 2007, and the program has been designed to meet these CVMA standards. The animal facilities are approved for teaching by the Canadian Council on Animal Care. The Animal Clinic is accredited by the Nova Scotia Veterinary Medical Association.

Admission Requirements

Admission into the Veterinary Technology program requires high school graduation with an average of at least 60% in five Grade 12 university preparatory subjects including:

- English
- Pre-Calculus Mathematics (or 70% in Academic Math)
- Chemistry

- Biology
- one elective.

Year 1

Semester I

VTEC0111	Animal Medicine and Nursing I
VTEC0112	Clinical Exercises I
VTEC0113	Veterinary Clinical Pathology I
VTEC0114	Fundamentals in Veterinary Technology I
VTEC0115	Anatomy-Physiology-Pathology I
ENGL0101	Writing for Business

Semester II

VTEC0121	Animal Medicine and Nursing II
VTEC0122	Clinical Exercises II
VTEC0123	Veterinary Clinical Pathology II
VTEC0124	Fundamentals in Veterinary Technology II
VTEC0125	Anatomy-Physiology-Pathology II
ANSC2003	Companion Animal Behaviour

Semester III

VTEC0131	Internship in Veterinary Technology
VTEC0132	Externship at the Atlantic Veterinary College
VTEC0133	Externship in General Veterinary Practice

Year 2

Semester IV

VTEC0211	Animal Medicine and Nursing III
VTEC0212	Clinical Exercises III
VTEC0213	Veterinary Clinical Pathology III
VTEC0214	Fundamentals in Veterinary Technology III
VTEC0215	Livestock/Equine Principles
	Elective*

Semester V

VTEC0221	Animal Medicine and Nursing IV
VTEC0222	Clinical Exercises IV
VTEC0223	Veterinary Clinical Pathology IV
VTEC0224	Fundamentals in Veterinary Technology IV
VTEC0225	Lab Animal & Alternate Pet Medicine
	Elective*

* Electives must be approved by Program Coordinator.

University Preparatory Courses

University Preparatory courses are offered for students who do not meet entrance requirements or who require upgrading to enter certain courses. The one-semester courses, offered in the Fall and Winter semesters, are non-credit courses in Chemistry, Physics, and Mathematics.

Applicants may, based on individual assessment, be admitted into University Preparatory courses. The assessment includes educational background, life experience, and personal motivation. Students with sufficient academic background may be eligible to take some university credit courses along with their required University Preparatory courses. Applicants may also be admitted into University Preparatory courses as prerequisites for another course.

For detailed course descriptions of the following University Preparatory courses, please see Description of Courses.

CHEM0050 (CS89)	Preparatory Chemistry
MATH0050 (MP85)	Functions
PHYS0050 (MP90)	Introductory Physics

For more information, please contact the Registrar's Office (reg@nsac.ca).

Certificate Programs

Certificate of Specialization in Organic Agriculture

NSAC offers a Certificate program in Organic Agriculture. This initiative provides students with an opportunity to specialize in the expanding area of organic agriculture. The Certificate of Specialization in Organic Agriculture enables students to approach agriculture from their area of interest, to know they can be recognized for this accomplishment, and to continue to take other courses in agriculture toward a degree. To date the total organic sector is about 1-2 % of agriculture overall. However, the employment opportunities are expected to increase in an industry that is growing at the rate of 20% per year. There are also opportunities for self-employment on smaller farms than might be profitable under conventional production. Any student who has successfully completed four of the eligible organic agriculture credit courses (see list) and has an overall average of at least 60% in these courses can apply to receive a Certificate of Specialization in Organic Agriculture. Two of the courses may be substituted with approved "organic" courses offered by external institutions (see below). These alternate courses will be taken on a Letter of Permission.

All NSAC courses in the Certificate of Specialization in Organic Agriculture are offered through Distance Education.

Eligible Courses:

AGRI1002 (IN202):	Transition to Organic Agriculture
AGRN1000 (PS202):	Organic Field Crop Management
ANSC1000 (AS202):	Organic Livestock Production
ENVS1000 (ES202):	Composting and Compost Use
HORT2001 (PS210):	Principles of Organic Horticulture

Note: Students will not be required to take the courses in any particular order. ENVS1000, AGRI1002 and HORT2001 are currently offered in the Fall semester. ANSC1000 and AGRN1000 are currently offered in the Winter semester.

Other institutions offering courses that may be taken within the certificate:

- University of British Columbia [Agroecology 361 – Key Indicators of Sustainable Agriculture],
- University of Manitoba [Dryland Cropping Systems],
- University of Guelph [Marketing in Organic Agriculture], and

- Laval Université [French translation of NSAC courses AGRI1002, AGRN1000, ANSC1000, and ENVS1000]*

* A student cannot receive credit for taking the same course in both French and English.

For more information or to apply for the Certificate, contact the Centre for Continuing & Distance Education, (902) 893-6666.

MASTER OF SCIENCE IN AGRICULTURE

The Master of Science program with a specialization in agriculture is a joint program offered by the Nova Scotia Agricultural College (NSAC) and Dalhousie University. Dalhousie University grants the Master of Science degree in association with NSAC. Graduate students may take graduate courses offered at NSAC and at Dalhousie University. This provides graduate students in the M.Sc. program in agriculture with a wide variety of courses from which to select. Graduate courses offered at NSAC are listed herein. Graduate courses offered at Dalhousie University are listed in the Dalhousie University Graduate Studies Calendar 2006/2007, available on the Dalhousie web site at www.dalgrad.dal.ca.

Students accepted for enrollment in the M.Sc. program are registered at NSAC and Dalhousie, and are given a student identification number for each institution in accordance with the systems in place at each institution. Official transcripts for all students are produced by Dalhousie University.

For all academic matters relating to the M.Sc. program, including admission requirements, degree requirements, examinations, evaluations, and theses, students are deemed to be students of both NSAC and Dalhousie University. Students are subject to the academic regulations and rules of the Faculty of Graduate Studies as outlined in the Dalhousie University Graduate Studies Calendar 2006/2007. All academic policies are outlined in the Graduate Program Procedures Manual, available from the Research & Graduate Studies Office. The 2006/2007 edition of this manual will be available in August.

For all non-academic matters, including the payment of tuition and other fees, scholarships, bursaries, research and conference funding, athletics, and non-academic discipline, students are deemed to be students of NSAC. Graduate students are referred to the NSAC Community Standards 2006/2007 document (nsac.ca/stuserv/handbooks.asp) for further information on the rules and regulations governing the College community. This document describes the regulations/standards that constitute reasonable behaviour and outlines the process by which breaches of these standards are adjudicated. This document also contains the alcohol and drug policy, information on appeal processes, and the NSAC Student Code of Conduct. The NSAC's Policy for Responsible Computing also applies to graduate students and can be found in the document Policy Governing Access to and Use of NSAC Academic Computing (inside.nsac.ca/policy.htm). All students must agree to obey all the regulations of NSAC and all academic regulations of FGS. Additionally, students are advised that this Calendar is not an all-inclusive set of rules and regulations but represents only a portion of the rules and regulations that will govern the student's relationship with NSAC and Dalhousie University. Other rules and regulations are contained in additional publications (e.g. Graduate Program Procedures Manual) that are available to the student from Dalhousie University Registry and Faculty of Graduate Studies as well as the NSAC Registry and Research & Graduate Studies Office. Students are also advised that the regulations herein are subject to change.

Animal Science

(livestock, fur animals, poultry, shellfish, and finfish)

- Animal Management

- Behaviour
- Breeding
- Molecular Genetics
- Nutrition
- Physiology

Environmental Science

- Agricultural Systems Management
- Ecology
- Entomology
- Pest Management
- Resource Management
- Wastewater Management
- Weed Science

Plant Science

(fruits, vegetables, grains, forages, and specialty crops)

- Cropping Systems Management
- Plant Breeding
- Molecular Genetics
- Nutrition
- Pathology
- Physiology

Soil Science and Agricultural Chemistry

- Food Biochemistry
- Food Product Development
- Food Safety and Quality
- Soil Chemistry
- Soil Conservation and Management
- Soil Fertility

NSAC has unique strengths in the areas of Organic Agriculture; Air, Water, and Soil Quality Management; Fur Animal Research; Aquaculture Production; Pasture Management; and Agricultural Waste Management. There are also opportunities for graduate studies in Agricultural Economics and Engineering. Contact us for details.

ADMISSION REQUIREMENTS

Candidates must hold a Bachelor's degree with a minimum 'B' average or GPA of 3.0 from a university of recognized standing. For entry into the Master's program, candidates must hold a Bachelor's degree with Honours or the equivalent of honours standing as granted by Dalhousie University in the area in which graduate work is to be done or an area that is relevant to the graduate work. A four-year Bachelor's degree may be considered as equivalent of honours if there is significant evidence of independent research capacity (such as a research project as part of a course) or if the degree is officially approved as an honours equivalent. In those cases where a candidate has a three-year degree and an honours program was not available to them, first-class candidates will be considered for admission into the two-year program or Qualifying Year (programs are described below).

English is the standard language of study at NSAC and Dalhousie University. Thus, candidates whose native language is not English must demonstrate their capacity to pursue a graduate-level program in English before admission. The standard test is TOEFL (Test of English as a Foreign Language). The minimum acceptable score for the written (paper-based) TOEFL is 580,

for the computer-based TOEFL is 237, and for the internet-based TOEFL is 92. It is also recommended that potential students taking the non-computer TOEFL test should also take the Test of Written English (TWE) component. Official TOEFL reports are to be submitted to NSAC (institution code 0844). The following other tests will also be accepted with the following minimum scores: MELAB, 90; IELTS, 7; CanTest, average of 4.5 with no band score lower than 4.0; CAEL, 60 overall with no band score lower than 50. The TOEFL requirement is waived if the applicant has completed a degree at an institution where the language of instruction is English. There are some exceptions to this policy. Please contact the Research & Graduate Studies

Office, NSAC, at (902) 893-6502 (902) 893-6502 FREE (e-mail: mlaw@nsac.ca), if you have any questions regarding the English Language Requirement.

Further information on these tests may be obtained from:

Test of English as a Foreign Language (TOEFL)

TOEFL/TSE Service

PO Box 6151

Princeton, NJ

USA 08541

toefl@ets.org

www.toefl.org

Michigan English Language Assessment Battery (MELAB)

English Language Institute

TCF Building

University of Michigan

401 E. Liberty, Ste 350

Ann Arbor, Michigan

USA 48104-2298

melabelium@umich.edu

www.lsa.umich.edu/eli/melab.htm

International English Language Testing System (IELTS)

University of Cambridge Local Examinations Syndicate

1 Hills Road

Cambridge, UK

CB12EU

ielts@ucles.org.uk

www.ielts.org

Canadian Test of English for Scholars and Trainees (CanTest)

CanTEST Project Office

Second Language Institute

University of Ottawa

600 King Edward Avenue

Ottawa, ON

K1N 6N5

cantest@uottawa.ca

www.arts.uottawa.ca/ils/eng/cantest_register.html

Canadian Academic English Language Assessment (CAEL)

CAEL Assessment Testing Office

School of Linguistics and Applied Language Studies
Carleton University
126 Paterson Hall, 1125 Colonel By Drive
Ottawa, ON
K1S 5B6
cael@carleton.ca
www.carleton.ca/slals/cael.htm

All applications will be reviewed at NSAC based on the academic qualifications and record of the applicant. Paper copies of applications may be received from the Research & Graduate Studies Office (RGS), Nova Scotia Agricultural College, PO Box 550, Truro, NS, B2N 5E3 or downloaded from the RGS website (www.nsac.ca/research/graduatestudies/admissions.asp). Completed applications are sent from the Graduate Coordinator to the head of the department to which the student is applying. The Department Head receives completed applications, arranges for a departmental recommendation on admission for each applicant, and assists the Graduate Coordinator with finding a supervisor and funding support for acceptable M.Sc. candidates. In the event that a supervisor can be found but funding support is not available, the Department may recommend that the student be admitted on a self-funded basis. A recommendation on admission, signed by the Department Head, will be forwarded to the Graduate Coordinator within two weeks of receiving the completed application. Recommendations regarding admission will then be forwarded from NSAC to the Dean of Graduate Studies, Dalhousie University. At this stage, NSAC will contact applicants to inform them that a positive recommendation has been made to the Faculty of Graduate Studies, Dalhousie University (FGS). This does not constitute official acceptance into the graduate program. Final decisions on all admissions are made by FGS, and there are no appeals on admission decisions. Official acceptance is achieved when the recommendation has been approved by FGS and a formal letter of acceptance is issued by the Dalhousie Registrar's Office. This letter is the only official notification that is sent out. All other forms of communication, including letters from the supervisor or department, do not constitute official acceptance or rejection. Please note that entry into the graduate program is very competitive and applicants who meet or exceed the minimum requirements are not guaranteed admission. Normally, successful applicants have academic records and qualifications that are well above the minimum required.

Supporting documents included in applications (e.g. transcripts, letters of reference, etc.) will be verified for authenticity. Applicants submitting fraudulent documents will have their names published on the listserv of the Association of Registrars of Universities and Colleges in Canada and may have their acceptance rescinded.

Dalhousie University reserves the right to rescind any acceptance of an applicant into the program or to rescind an offer of admission of an applicant into the program. Such rescission will be in writing in accordance with Dalhousie University regulations (see Dalhousie University Graduate Studies Calendar 2006/2007).

Newly-accepted applicants who, for reasons beyond their control, are unable to take up their position on the date for which they were accepted, may request a deferral of their start date to a later term. Students may request a deferral of one, two, or three terms, and no student may receive more than one deferral. Students wishing to request a deferral should contact the NSAC Research & Graduate Studies Office as soon as possible. All deferrals are subject to the agreement of the supervisor who has agreed to supervise the student's program of study and the head of the department to which the student has applied, and the final approval of FGS. Students are advised that funding assistance provided through a research assistantship (e.g. supervisor's research grant or contract) may be rescinded if the student is unable to register on the date for which they were originally accepted into the program. If a student requests a

deferral after he or she has registered, it is the student's responsibility to cancel his or her registration.

Application forms and details may be obtained from:

Research & Graduate Studies Office
Cumming Hall, Nova Scotia Agricultural College
PO Box 550, Truro, Nova Scotia B2N 5E3

Phone (902) 893-6502 (902) 893-6502 FREE , Fax (902) 893-3430
www.nsac.ca/research/graduatestudies/admissions.asp

Students who have taken graduate courses before applying for graduate studies, and who have not used these credits for another degree, should apply for appropriate graduate credit at the time of admission. FGS does not guarantee that advanced standing will be granted for courses taken prior to admission to the graduate program. Under no circumstances will advanced standing be approved retroactively.

ACADEMIC DEADLINES

A complete list of academic deadlines for those students enrolled in the M.Sc. program can be found in the Graduate Program Procedures Manual 2006/2007 (available on the NSAC website at www.nsac.ca/research/graduatestudies/studenthandbook.pdf). The Graduate Coordinator distributes this manual to all registrants in the M.Sc. program annually at registration.

Starting Dates

Students may choose to begin their Master of Science in Agriculture program in the Fall (September 1), Winter (January 1), or Spring (May 1) session.

Application Deadlines

The final date for the receipt of applications for studies commencing:

September 1 is June 1

(non-Canadian students April 1)

January 1 is October 31

(non-Canadian students August 31)

May 1 is February 28

(non-Canadian students December 31)

*If visa processing is lengthy (such as in the People's Republic of China), applicants should apply at least two months before the deadline, e.g. by January 31 for September admission.

Applicants who require a student visa and are not funded by NSAC or an officially recognized funding agency must provide proof of financial ability with their application. Immigration Canada is increasingly rigorous about requiring proof of sufficient financial support to complete the program of study.

Applicants who wish to apply for financial support (e.g. research assistantship) are strongly encouraged to apply for admission before the stated deadline and to indicate the need for financial support in their application. All applicants are automatically considered for financial support. Candidates should also apply for external awards whenever possible. NSAC reserves the right to rescind financial support (e.g. research assistantships, entrance scholarships) after the letter of initial offer, should the applicant be deemed not to meet admission standards or the academic standards required for scholarship criteria.

Students with diagnosed learning disabilities who meet the current admission requirements may follow the current admission procedures.

Students with diagnosed learning disabilities who do not meet the current admission requirements or who otherwise wish to have their learning disability considered may apply for special consideration as may all other students who have extenuating circumstances. The following additional documentation must be submitted by students who wish to apply for special consideration:

- letter(s) of recommendation from the individual(s) most familiar with the applicant's academic performance and/or potential for success in the program;
- a written, oral or electronic statement from the student—in this brief personal statement, students should describe their learning disability, how this affected their grades, and the type of assistance they would require while at NSAC; and
- a current (within three years) psychological assessment based on standard diagnostic instruments administered by a registered psychologist documenting the presence of learning disabilities. If a current report is not possible, NSAC/Dalhousie University may accept an earlier report along with a current opinion (i.e., within the past year) expressed in a letter by a registered psychologist (or individual supervised by a registered psychologist) that the student has a learning disability. This letter should specify the nature, extent, and rationale for program modifications or accommodations that were deemed appropriate in the student's last two years of schooling.

PROGRAMS OF FULL-TIME AND PART-TIME STUDY

One-Year M.Sc. Program

Ten graduate credits are required. The thesis will count for a maximum of six credits. The remaining credits (pass grade of 'B-' or 70% in each course) must include AGRI5700 (Communication Skills and Graduate Seminar). The number of credits awarded for the thesis is intended to make the total number of credits equal to the number required for the M. Sc. degree (ten), and is not related to the thesis quality; it is expected that a thesis awarded four credits is of the same quality as a thesis awarded six credits. The one-year program involves a program fee requirement of one year, during which a full-time student is expected to be on campus unless otherwise given permission to take courses or undertake research somewhere else. The one-year program fee is followed by continuing fees as required. The usual time for completion for students in the one-year program is 24 months.

Two-Year M.Sc. Program

In addition to the requirements for a one-year M.Sc. program, students must complete at least five credits related to their thesis work with a grade of 'B-' (70%) or better in each course. These additional credits may be at the undergraduate or graduate level. The two-year program involves two years of program fees followed by continuing fees as required. If admitted to a two-year program, full-time students are normally required to be on campus for six consecutive terms. The usual time for completion for students in the two-year program is 36 months.

GENERAL INFORMATION

Graduate Courses

Graduate courses at NSAC are numbered in the 5000 series. No course can be assigned a graduate number without the recommendation of the Curriculum Committee and the approval of Faculty Council at NSAC and the Curriculum Committee, FGS. The last dates for adding and deleting classes are published in the schedule of Academic Deadlines, as printed in the Dalhousie University Graduate Studies Calendar 2006/2007. For withdrawals within this period, the class and the withdrawal are not recorded on the academic record. After these dates, the student is responsible for the content of the class and receives a grade for it. Students may not

transfer from full to part-time status by withdrawing from classes after the deadlines listed in the schedule of Academic Deadlines.

Advanced Placement

Advanced placement can be given for courses already counted toward a previous degree. Advanced placement can reduce the overall number of course requirements when the student's previous degree and standing are exceptional. Advanced placement must be approved by the supervisor, the Graduate Coordinator, and FGS, and must be clearly annotated on the student's Graduate Program Form. Students should be aware that courses approved for advanced placement will not appear on their official transcript of the NSAC/Dalhousie M.Sc. program. Advanced Placement cannot exceed 33% of the student's overall requirements.

Transfer Credit

Transfer credits allow for courses completed outside of the student's program, normally at another institution, to be used as part of the student's degree requirements. Such courses cannot have been used for credit for another degree, and cannot exceed 33% of the student's overall requirements. This total of 33% would also include any courses taken on Letter of Permission and Advanced Placement. Transfer credits should be applied for within the first term following admission and must be approved by the student's supervisor, the Graduate Coordinator, and FGS. An original transcript and course equivalency is required. Approved transfer credits will appear on the student's official transcript of the NSAC/Dalhousie M.Sc. program.

Letters of Permission

The maximum number of courses taken outside of NSAC/Dalhousie University Master of Science program shall normally be confined to 33% of the class requirements. This total of 33% would include courses taken on Letter of Permission, Transfer Credits, and Advanced Placement. Courses approved by Dalhousie University (after examination of course descriptions) can be taken at other universities on Letter of Permission as part of the graduate degree program, provided the course is not available at NSAC or Dalhousie University. Graduate students enrolled in the M.Sc. program in agriculture do not need a Letter of Permission to take courses at Dalhousie University.

Approval of the Letter of Permission is granted by the Dean of Graduate Studies, Dalhousie University. Graduate students must be registered and have paid appropriate fees before Letters of Permission will be approved. Full-time and part-time students are eligible to apply to take a course on a Letter of Permission. Students may not take classes outside of the NSAC/Dalhousie M.Sc. program for graduate credit unless prior approval has been received from FGS. Letters of Permission are not approved retroactively.

Students must achieve a 'B-' (70%) grade or better in order to achieve a pass standing at NSAC/Dalhousie University. Grades below 'B-' received for courses taken on a Letter of Permission at another institution will be recorded as a failing grade on the student's record. The normal regulations governing grading policy apply to classes taken at other institutions (e.g. a 'C+' on a graduate class taken elsewhere will be deemed an 'F' in the student's program and will render him/her liable to academic withdrawal). Students who fail a class may not replace that class on a Letter of Permission, except with special permission of FGS.

NSAC will normally reimburse up to a maximum of \$500 toward the cost of a course taken on a Letter of Permission, if the course is a required course for the student's M.Sc. program and the course is not available at NSAC or Dalhousie University. This policy applies to students who pay "program fees"; it does not apply to students who pay "course fees". To be reimbursed, the student must provide proof of payment for the course and official transcripts showing that the course was passed (i.e. a grade of 'B-' or 70%).

Ancillary Courses

A student may be directed by his/her supervisor or supervisory committee to take undergraduate courses which are ancillary in nature to the student's specific area of study. Undergraduate courses recommended by a supervisor or the supervisory committee as advisable additional background to the degree program, but not specifically required for that program, are termed ancillary courses and are usually taken in a department other than the one in which the student is registered. These are taken by the student for credit in order to make up deficiencies in background or to acquire important skills of an ancillary nature. The pass grade in ancillary courses taken at NSAC (i.e., NSAC undergraduate courses) is 60%. Ancillary classes must be listed on the Program Form but do not count toward the required number of credits for the M.Sc. degree. Normally students are limited to one ancillary class (6 credit hours) during their program. Students who take ancillary courses at another institution are responsible for the tuition fees at the other institution. Undergraduate courses taken at NSAC will not appear on the student's official transcript of the M.Sc. program issued by Dalhousie University and will not be included as part of the student's graduate program. The NSAC Registry will record ancillary courses.

Additional Undergraduate and Audit Courses

As part of their regular fees, graduate students may take two undergraduate NSAC courses for credit and two NSAC courses for audit of their choice in addition to their 10 required program credits. Approval is required from the student's supervisory committee for the additional undergraduate credit and audit courses.

Students may also take one audit at Dalhousie University (equivalent to six credit hours) in each year of residency of their formal program. Audits at Dalhousie University must be listed on the Program Form and must be relevant to the student's program of study. Audits cannot be taken on Letter of Permission and will not be approved as part of a Qualifying Program.

Independent Study, Directed Readings, and Special Topics

Students may not register for more than two independent study, directed readings, or special topics courses in any graduate program.

Passing Grade for Required Courses

Classes may be designated by the candidate's committee as 'Required' (pass mark is 'B-') or 'Ancillary' (normal undergraduate pass mark unless otherwise specified). Some graduate courses are cross-listed with senior undergraduate courses, in which case the requirements for graduate students are more demanding than those for undergraduates. If a student is permitted to take an undergraduate course (with an appropriate additional work requirement as approved by FGS Curriculum Committee) as part of their graduate course work, the minimum 'B-' grade also applies. Note that there is no withdrawal (WD) grade for graduate students (see grading chart below), except where a student formally withdraws from the program.

Grading Policy

Graduate students must achieve a minimum, or passing, grade of 'B-' in all classes required as part of their degree program. Any lower grade will be recorded as a failure. Note that there is no withdrawal (WD) grade for graduate students (see grading chart below), except where a student formally withdraws from the program.

Dalhousie University's FGS uses the following grading scheme:

Letter Grade Numerical (%) Equivalent

A+ 90-100

A 85-89

A- 80-84
B+ 77-79
B 73-7
B- 70-72
F <70

Academic Transcript

The academic transcript is a reflection of academic progress and therefore reflects both passes and failures. It cannot be altered after the fact. Accordingly, it is essential that students be fully aware of the deadlines for adding and withdrawing from graduate classes. Except for university purposes, transcripts (both official and unofficial) will be issued only on the request of the student and, where appropriate, on payment of the required fee. A student will receive only an unofficial transcript. Upon a student's request, official transcripts will be sent to other universities, or to business organizations. Graduate students are reminded that their official academic transcript must be requested directly from Dalhousie University. Official transcripts can be requested through Dalhousie's on-line system.

Incomplete Courses

A student who fails to complete the required work for a particular class during the normal period of the class will receive a grade of 'F' (Fail). However, where circumstances warrant it, a grade of 'INC' (Incomplete) may be assigned. Subsequent completion of the work following the end of the class may result in a change of grade by the class instructor, as long as the work is completed before the following deadlines:

Fall term classes February 1
Winter term classes June 1
Full academic year classes (e.g. AGRI5700) June 1
Summer term classes October 1

After these deadlines, an 'INC' grade cannot be changed without permission of FGS. Where the formal deadline for completion of work is beyond the INC deadline, the instructor can request permission from FGS to extend the INC for an approved period of time. Where illness is involved, a certificate from the student's physician will be required. This certificate should indicate the dates and duration of the illness, when possible should describe the impact it had on the student's ability to fulfill academic requirements, and should include any other information the physician considers relevant and appropriate. To obtain a medical certificate, students who miss examinations, tests, or the completion of other assignments should contact their physician at the time they are ill and should submit a medical certificate to their instructor as soon thereafter as possible. Such certificates will not normally be accepted after a lapse of more than one week from the examination or assignment completion date. For exceptional circumstances other than illness, appropriate documentation, depending on the situation, will be required. Requests for alternate arrangements should be made to the instructor in all cases. The deadlines for changing a grade from 'ILL' to a letter grade are the same as those listed above for changing a grade from INC to a letter grade. All outstanding grades, including 'ILL' and 'INC', must be addressed prior to registration for the next term. If grades are still outstanding into the next term and no arrangements have been made, the student may be required to re-register in the class.

In Progress Courses

The grade of In Progress may be used only to report the thesis course, research project classes, and those designated as "open to independent completion of study". Final submission of grades

for project and independent study courses is April 30 for fall term courses and August 31 for winter term and regular session (AGRI5700, AGRI5710 and AGRI5705) courses.

Academic Standards

When the work of a student becomes unsatisfactory (including insufficient progress), or a student's attendance is irregular without sufficient reason, withdrawal from one or more courses or academic dismissal from the program may be required.

Failed Courses

A student who fails to obtain the minimum grade ('B-') in any course in any year is automatically withdrawn (academically dismissed) immediately from the program. However, such a student may apply, in writing, to the NSAC Graduate Coordinator for reinstatement. Reinstatement to the program after a failing grade must be supported by the student's Supervisor, the Graduate Coordinator, and the head of the department in which the student is registered at NSAC, and must be approved in writing by FGS. Note that any academic withdrawal and reinstatement will be recorded on the student's official transcript.

Length of Program and Extensions

Graduate students have a maximum period of time within which to complete all of the requirements for their graduate program.

Usual time limits for the completion of degrees are:

One-year M.Sc., full-time: 2 years

One-year M.Sc., part-time: 4 years

Two-year M.Sc., full-time: 3 years

Upper time limits for the completion of degrees are:

One-year M.Sc., full-time: 4 years

One-year M.Sc., part-time: 5 years

Two-year M.Sc., full-time: 5 years

Two-year M.Sc., part-time: 7 years

Students may apply for extensions beyond the upper time limits. A first extension of one year may be granted by FGS on the recommendation of the Graduate Coordinator, along with a satisfactory Progress Report Form completed and signed by the student and the supervisor. A request for a second extension, the Final Extension, must be submitted to the Graduate Coordinator with a Report of Progress in the previous year together with a detailed plan and timetable for completion of the thesis within the following 12-month period. If supported by the supervisory committee, the Graduate Coordinator will forward the recommendation to the Dean of Graduate Studies, Dalhousie University, for approval. The student is then expected to defend and submit the approved thesis within that academic year. Further extensions will only be given for one term to provide for necessary revisions to the thesis following defence. Under no circumstances can a student be registered in a program for more than 10 years.

Withdrawal From Program

A student who decides to withdraw from the graduate program must immediately notify, in writing, his/her supervisor and the Graduate Coordinator. The Graduate Coordinator will notify the NSAC Registrar, the Dalhousie Registrar, and the Dean of Graduate Studies, Dalhousie University. Refund of fees, if applicable, will be calculated from the date this letter is received by the Graduate Coordinator. A withdrawal is not official until it has been approved by FGS and is received in the Dalhousie Registrar's Office. Under no circumstances will FGS back-date a withdrawal notice.

Academic Dismissal

A student may be required to withdraw from the program for academic reasons (e.g. resulting from class failure, failure of ATC examination, or lack of academic progress), for academic offences such as plagiarism, for irregularities in the presentation of data, for non-academic reasons (e.g. breach of an NSAC or Dalhousie University regulation or Code of Student Conduct), or for failure to maintain registration status. The student will be notified by the appropriate body of the reason for the required withdrawal. The student has the right to appeal the decision to the Graduate Coordinator.

Readmission of Students

A student who is required to withdraw, who voluntarily withdraws, or whose registration has lapsed may apply for readmission within ten (10) years of initial registration. Readmission is not automatic because of the competition for places with incoming students. A student who is academically withdrawn may not apply for readmission for at least 12 months following the official date of the withdrawal.

Readmitted Students

Students who fail to register and pay tuition fees for any term before the degree requirements have been fulfilled are considered to have withdrawn, and will be required to apply for readmission. Readmitted students (except those who have been withdrawn for academic reasons) must pay fees for the terms in which they were not registered, to a maximum of three terms at the current "continuing fee" rate.

Readmitted students who were academically withdrawn will not be charged make-up fees for the three terms immediately following the official date of withdrawal. Make-up fees will be charged for any term thereafter, to a maximum of three terms, until the student is registered. Students who have not maintained registration are normally required to have a satisfactory thesis in hand or a timetable for completion, approved by the Graduate Coordinator and signed by the student and thesis supervisor, before they can be readmitted.

Students may be readmitted only once during the course of their program. Application for readmission must meet normal application deadlines, and all outstanding fees must be paid.

Other Program Components

Demonstrating

As part of their graduate training all students must spend at least one academic term demonstrating in an undergraduate class. It is hoped that graduate students will participate in a variety of activities through the demonstrating position, such as preparing teaching materials, giving prelab presentations/instructions, monitoring student progress, and marking assignments. The demonstrating will normally occupy six hours per week for the teaching term and will be paid for by the department at the prevailing rate (\$900 per term) unless payment is disallowed by the terms of a scholarship. Department heads, in consultation with the students' supervisors, are responsible for ensuring that each graduate student is assigned at least one demonstrating position during their program.

Although departments must ensure that a position is available for every student within their department so that this program requirement can be fulfilled, students may demonstrate in an undergraduate course outside of their academic department. Students are encouraged to discuss this requirement with their supervisors and the heads of their departments early in their program. Students interested in demonstrating in an undergraduate course outside of their academic department should discuss this possibility with their supervisors, the instructors of the courses in which they are interested, and the heads of the departments in which the courses are offered. Students who arrange to complete the demonstrating requirement in courses outside of their academic department must notify their supervisors and the heads of their departments. The department in which the student is registered will not pay for a graduate student to

demonstrate in an undergraduate course that is offered outside his/her academic department. The demonstrating requirement can be completed in the student's first or second year of the program. Students may demonstrate in more than one course only with permission from their supervisory committee. Students are responsible for ensuring that the instructor of the course receives, and submits to the Research & Graduate Studies Office, a Teaching Assistantship Evaluation Report form. These forms are available from the Graduate Coordinator. The performance of students as demonstrators will be evaluated by those in charge of the course. Departments are responsible for ensuring that sufficient demonstrating positions are available to their graduate students.

Admission to Candidacy (ATC) Examination

A Research Proposal must be prepared by all students as a requirement for Admission to Candidacy (ATC). The proposal should provide a suitably documented account of the project that the student wishes to undertake for the M.Sc. degree. It is recommended that the research proposal be no more than 25 pages (double spaced, including reference list, figures, tables, and appendices). Students are to develop the research proposal in consultation with their supervisor and supervisory committee members. Students should consult with their supervisory committee on issues such as the rationale behind the proposed research, important background literature, resources available, practical limitations, and the nature of the ATC examination.

Students may find the NSAC Style Manual to be a useful resource in preparing their research proposal. The aim of the style manual is to give specific guidance to students who require a standard format for writing assignments of various types. While supervisors, scientific journals, and other textbooks will provide a great deal of help, this manual will provide supplemental information to assist students in research, note taking, paper planning, and citation forms. The Style Manual is available from the NSAC Bookstore and the NSAC website at www.nsac.ca/library/ENGL1000h1132005stylemanualpdf.pdf.

It is recommended that students have all members of their supervisory committee review, comment on, edit and critique the proposal prior to submitting the proposal for the ATC examination. It should be submitted, together with a research proposal information form (ATC Form Part 1, available from the Research & Graduate Studies Office) and the ATC Planning Form, to the Graduate Coordinator (RGS) who will schedule the ATC examination. Sufficient additional copies of the research proposal must be provided to the Graduate Coordinator for distribution to the Supervisory Committee, External Examiner, and Chair of the exam three weeks prior to the ATC examination. One additional copy must be submitted to the Graduate Coordinator for the student's official file.

Admission to Candidacy is based on presentation of an acceptable research proposal and successful defence of this proposal before an examining committee. The examiners will consider the merit and feasibility of the proposal as well as the student's knowledge of methodology, literature and general academic background in areas relevant to the research.

Each student must pass an Admission to Candidacy examination early in their program, normally within the first four to six months in which a student is registered. If the ATC examination is not completed within the first six months of the student's program, the student must submit a request for an extension with a detailed timeline for the completion of the examination before registration for their third term of study will be permitted. The request for the extension and timeline for completion must be approved and supported by the student's supervisory committee. Students who do not complete the ATC examination within their first year of study will not be permitted to register for their second year of study. Students in a two-year M.Sc. program or part-time program may elect to delay the candidacy examination for up to one year.

The purpose of the ATC examination is:

i) to evaluate the student's competency to pursue graduate studies in the student's chosen discipline within the context of the proposed research;

- ii) to identify and address any specific weaknesses in the student's background relevant to the proposed research area; and
- iii) to assess the merit, feasibility, and suitability of the proposed research as a graduate-level thesis.

The ATC Examining Committee will include a Chair, one External Examiner, and the members of the Supervisory Committee. The Chair will normally be the head of the student's academic department of study or his/her designate. The Chair must be a member of the Faculty of Graduate Studies, Dalhousie University. In the event that the Department Head is not available to Chair the exam and a designate from the department cannot be obtained, the Vice-President Academic may act as Chair. The External Examiner may be a qualified scholar from outside NSAC, an Honorary Research Associate or Adjunct Professor of NSAC, or an NSAC Faculty member. In addition to the Chair and External Examiner, the ATC Examining Committee will normally consist of three to four examiners. Larger numbers of examiners are at the discretion of the student and the supervisor. One committee member may be replaced by an alternate examiner if it is impossible to have all members present.

The examination begins with a 15-minute verbal presentation of the proposal by the student, highlighting the goals and objectives of the research, the research strategy/methodology, and the impact, significance, or benefit of the proposed research. The Chair, Supervisory Committee members, and External Examiner then question the student on the proposal and on concepts relevant to the proposal.

The examiners will keep in mind that the ATC proposal is not a detailed description of how the research will be conducted. Thus, examiners' questions will focus on general knowledge of methodology required for the project and theory relating to it. Examiners will also keep in mind that the ATC is not a comprehensive examination. Questions will arise from the scientific content of the work presented but will not range randomly over the entire field. The student is being examined for competence by evaluating his/her ability to put together a viable research project and to defend the rationale and methodology.

The Chair is expected to intervene on behalf of the student if examiners' questions are not consistent with the purpose of the ATC examination.

Decision will be by consensus and the alternatives are Pass or Fail. The Chair will vote only if the committee vote is tied. Recommendations and/or conditions may accompany a Pass outcome. If the student requires further background preparation, the student may be required to take additional courses as a condition of passing the ATC examination. Appropriate classes or remedial effort will be assigned for the following academic year. If the research proposal is not deemed to be satisfactory, the student may be required to rewrite the research document. The Graduate Coordinator will verify that these assignments are completed. A student who fails the ATC examination is required to withdraw from the program. A failed ATC examination can be appealed to the Graduate Coordinator within three working days. The student will then be re-examined within two weeks by the Chair, the student's Supervisor, and three faculty members not on the original examining committee.

Thesis

A satisfactory thesis embodying contributions to research must be presented and successfully defended in a public oral examination.

Supervisor and Supervisory Committee

All thesis students must have a Supervisor (or co-supervisors) and a Supervisory Committee. The appointment of a supervisor is a prerequisite for admission into the graduate program.

Students are not admitted until their research areas have been identified and faculty members have agreed to supervise them. A faculty member becomes the graduate student's supervisor upon signing the Confirmation of Intention to Supervise form. The student's supervisory committee is to be in place within the first month of the student's initial registration in the

program. Students are advised to meet with their supervisory committees early in their program (i.e., as soon as the committees are formed).

Supervisor

A thesis supervisor or co-supervisor must be a member of the Faculty of Graduate Studies, Dalhousie University. Members holding post-retirement appointments or active in research in retirement cannot normally take on new students to supervise, but they can co-supervise with a full-time member of FGS. The supervisor is the person who will be most directly involved in overseeing the student's research program. The supervisor must obtain written approval from the Department Head for each M.Sc. student he/she intends to supervise. The following potential difficulty should be drawn to the attention of new students: Some restriction of students' freedom to follow their own lines of research may result from dependence upon supervisors' research grants for a significant portion of their income. When conflicts of interest arise, the Graduate Coordinator and the student's supervisory committee should play a significant role in overseeing the development of the research and in protecting the student against the loss of academic freedom.

The supervisor must meet with the student to select courses before classes commence. If the student is not on campus by this time, the meeting must take place within one or two days of arrival.

The responsibilities of the supervisor at the first meeting with a graduate student are:

- to check whether the student has registered and to advise on correct registration procedures, if necessary;
- to help the student plan course work, and advise on all requirements for the program;
- to determine which courses are required and whether any should be designated ancillary or audit;
- to ensure that the student has suitable working space and facilities for research;
- to assign any language or auxiliary skill requirement;
- to advise students as to where they can obtain information on matters such as health insurance, social insurance numbers, housing, and finances.

If a supervisor is not available to assist the student (e.g., the supervisor takes a one-year sabbatical leave), he/she must arrange an alternative (interim) supervisor for the student. The name and the expected duration of tenure of the interim supervisor must be reported to the Graduate Coordinator in writing.

In addition, each supervisor consents to:

- guide and assist their graduate students;
- serve on examining committees for ATC examinations and thesis defences;
- teach in a graduate module course or graduate course;
- contribute information to the annual reports of the Graduate Program;
- encourage dissemination of results and interaction of graduate students with other students and faculty through research seminars and other means.

The Supervisor and the student are responsible for recommending to the Graduate Coordinator the names of three suitable potential external examiners for the ATC examination and the names of three potential external examiners for the thesis defence.

Supervisors are responsible for initiating the thesis defence; they are also responsible for making arrangements for travel and accommodations and for hosting external examiners, if necessary. The Office of Research & Graduate Studies will assist with the costs associated with external examiners' travel expenses. Reimbursement of travel expenses of an external examiner will be to a maximum of \$500 and must be in accordance with current guidelines of the Province of Nova Scotia regarding per diem rates and travel policies. Supervisors are responsible for arranging any additional expenditures to be covered through approved sources prior to the defence.

Co-supervision

Four types of co-supervision are recognized:

- (i) where a co-supervisor is added because the other supervisor does not have an appropriate academic qualification (e.g., does not have a Ph.D. or equivalent);
- (ii) where a student wishes to draw equally upon the expertise of two supervisors from different disciplines;
- (iii) where a new faculty member is introduced to the standards of the department by providing an opportunity to work with an experienced supervisor; and
- (iv) where required to conform to Dalhousie University Faculty of Graduate Studies' practice regarding external supervisors or supervisors not from the student's department of program. An Adjunct faculty member may be the academic supervisor of a student provided the student also has an internal advisor to handle the administrative details. This is usually done to support the student within the program rather than for reasons of academic need.

Students are advised to meet with their co-supervisors, together, early in their program to clarify the roles, responsibilities and expectations of each co-supervisor and to devise a communication strategy with each co-supervisor (e.g., in some instances, students with co-supervisors will be expected to work closely with only one of the co-supervisors on the thesis research project while in others a student may be expected to meet with both co-supervisors regularly regarding the thesis research).

Supervisory Committee

A Supervisory Committee is recommended by the supervisor in consultation with the student, and should complement the expertise available to the student in completing his/her research program. This committee is responsible for guiding the graduate student through the program. It consists of the Supervisor and other persons with expertise or interests relevant to the student's field of study. Its composition must be reported to the Graduate Coordinator within the student's first academic term of study or when the student applies for admission to candidacy, whichever occurs first. All supervisory committees are approved by FGS.

The supervisory committee consists of the supervisor and at least two others. Supervisory committee members may be chosen from outside NSAC; however, where the supervisor is not a full-time faculty member of NSAC, a co-supervisor from NSAC must be appointed. This person is responsible to NSAC for the student's progress. Also, the majority of committee members must be members of FGS and full-time faculty of NSAC. Additional members of the non-university/college community (such as practising professionals) may be appointed to the supervisory committee where their particular expertise makes it appropriate. The appointment of a non-member of FGS, including any non-regular appointments, requires permission from the Dean or Associate Dean of Graduate Studies, Dalhousie University, for the individual to become a formal member of the supervisory committee. Non-members of FGS must be approved as External Scholars by the Dean of Graduate Studies. Supervisors should contact the Graduate Coordinator for more information on the approval process.

Although the Admission to Candidacy (ATC) examination is the first official meeting of the supervisory committee, supervisory committees are strongly recommended to meet before the ATC examination. It is recommended that the supervisory committee meet with the student before the ATC examination to discuss the student's program (e.g., courses) and proposed research project.

Supervisory committees are to meet at least twice a year during the thesis research period and more often in the writing stages of the student's program. Normally, the agreement of all committee members is required before a thesis is brought forward for examination. Supervisory committees are responsible for reviewing the student's Annual Progress Report and assisting the student in completing the Annual Progress Report form, which is received and reviewed by the Graduate Coordinator prior to being submitted to FGS.

Supervisors should encourage students to consult other members of their supervisory committee, either individually or as a group, whenever it is useful. Students have the right to call a committee meeting at any time. The committee should also have opportunities to critique the work in progress and make alternative suggestions before it appears in thesis form. Students and supervisors are therefore encouraged to call the committee together to discuss research progress more often than the statutory twice per year described above. (Note: at least one meeting per academic term is recommended.)

Supervisory Committee Member's Responsibilities

Each member of a supervisory committee is responsible for:

- providing guidance to allow for the student's intellectual growth to become a competent contributor to a field of knowledge. In this context, the supervisory committee must provide constructive criticism and provocative discussion of the student's ideas as the program develops. The committee should ensure that the student is exposed to a wider range of expertise and ideas than can be provided by the advisor alone.
- being reasonably accessible to the student for consultation and discussion of the student's academic progress and research problems, and directing the student, as appropriate, to consult with experts outside the committee.
- ensuring that a "program of study" is established with the student's involvement and that it is formally approved by the committee, the student, and the Office of Research & Graduate Studies.
- as far as possible, identifying current and anticipated problems that may arise in the student's program and helping to alleviate them.
- meeting regularly to review the student's progress and constructively advance the student's research. The frequency of meetings will vary according to the stage and nature of the student's program.
- confirming and approving annual progress reports to the Office of Research & Graduate Studies and Dalhousie University Faculty of Graduate Studies.
- ensuring that progress reports include concerns or document when the progress being made is unsatisfactory.
- informing the student of the approximate time it will take for submitted written material to be returned with comments, with a normal maximum duration of two weeks.
- reading and commenting on drafts of written material and indicating whether or not a major paper is complete or a thesis ready for submission to the final examination committee.
- conforming to the basic principles of academic integrity and professionalism in the development of a mature and objective relationship with the student.
- respecting and conforming to the scholarly integrity and conflict of interest guidelines of NSAC and FGS.

REGISTRATION

It is the student's responsibility to register on the day(s) specified for graduate student registration. Students must register for each term (Fall, Winter and Summer). Registration is the process by which the student officially establishes with NSAC (through the Research & Graduate Studies Office) courses to be taken in the M.Sc. program and status (full-time, part-time), and pays the appropriate academic fees. Both aspects of the process (course registration/status and fee payment) must be completed before a student can be said to be registered.

Graduate students may take graduate courses offered at NSAC and at Dalhousie University. This provides graduate students in the M.Sc. program in Agriculture with a wide variety of courses from which to select. Graduate courses offered at NSAC are listed in the NSAC 2006/2007 Calendar, available from the NSAC Registrar or NSAC Research & Graduate Studies Office, and

are listed on the NSAC web site (www.nsac.ca/research/graduatestudies/courses.asp). Graduate courses offered at Dalhousie University are listed in the Dalhousie University z and are available on the Dalhousie web site at www.dalgrad.dal.ca.

Students must register for each term (Fall, Winter and Summer) at both Dalhousie University (carried out via the web at www.dal.ca/online) and NSAC (carried out via NSAC's Datatel Web Registration System at www.nsac.ca/reg/register.asp). Students are reminded that they must keep their mailing address up to date.

To register, all graduate students in their first year of study must do the following during their first three academic terms:

(i) Meet with the Graduate Coordinator for a student interview/ registration appointment to complete the relevant forms that indicate the student's presence on campus and intention to study for a graduate degree during the ensuing year. At the student interview, the student will be required to (1) identify his/her supervisor and proposed supervisory committee members, and (2) provide a list of courses, approved by the student's supervisor or committee as necessary to complete the student's M.Sc. requirements. Thus, students must meet with their supervisors prior to their registration appointment. The Graduate Coordinator will assist the student with on-line registration procedures at NSAC and Dalhousie University and with the formal completion of the Program Approval form. The completed forms will be submitted by the Graduate Coordinator to the NSAC Registrar and the Dalhousie Dean of Graduate Studies. Any change in courses after the interview must be approved by the Supervisor and the Graduate Coordinator.

(ii) Arrange for medical insurance coverage. In 2005/2006 students voted to implement a new health and dental plan. This will begin in September 2006. All full-time students at NSAC are automatically enrolled in the Student Health and Dental plans when they register for classes. The premium for each plan is an annual one; therefore the process for opting out must be done prior to the specified deadline. The deadline each year coincides with NSAC's last date to register for a course. More information regarding Student Health and Dental plans can be found at www.gallivan.ca or by visiting the on-site Student Benefits Plan Office, opening in Fall 2006.

(iii) Arrange for payment of fees through Financial Services, 2nd Floor, Cumming Hall.

(iv) Obtain a student ID card from NSAC Student Services, Dairy Building.

Graduate students in their second year of the program and beyond will receive a registration package by mail. This package will contain:

- deadline dates by which registration must be completed;
- procedures to be followed to register at NSAC via the on-line registration system;
- procedures to be followed to register at Dalhousie University via the on-line registration system;
- procedures for the payment of tuition fees; and
- specific information on procedures to follow to change academic status, program requirements, etc.

Continuing students who require an extension to their program or have an outstanding Progress Report will not be permitted to register until the extension or progress report has been officially approved by the Faculty of Graduate Studies.

Late registration is permitted until the last day for adding courses. All students must register on or before the deadline for each term. Students who do not register on or before the last day to register must apply in writing to the Graduate Coordinator for permission to register. Late fees are waived only in extenuating circumstances and at the discretion of the Vice-President Administration. Registration after the final deadline is normally only permitted in unavoidable circumstances such as illness or required absence for research at the beginning of the next academic year (in September).

Any student who fails to register and pay tuition fees by the approved deadlines may neither submit a thesis nor obtain any services from NSAC or Dalhousie University during that semester. Continuing students who fail to register by the final deadline will be automatically withdrawn from their program and will have to apply for readmission by the next available admission date. An individual program of study must be approved for every graduate student. The program of study for each graduate student must be approved by the Graduate Coordinator and submitted for final approval to FGS. The Graduate Coordinator will enter the proposed program (with the total number of credits required, the names and numbers of courses required (including ancillary courses), and any other requirements and conditions) on the Program Form. The student, the supervisor, and the Graduate Coordinator must sign this form prior to submission to FGS. The signed form is to be submitted to FGS within the first term of the student's program of study. Once approved, the Program Form constitutes an agreed contract between the student and NSAC/Dalhousie University for the requirements to complete the M.Sc. program. Any changes to the approved Program Form must be agreed to by the supervisor, the Graduate Coordinator, and FGS by submission of a Program Update form. It is the obligation of the supervisor to inform all supervisory committee members of both the content of the original Program Form and any changes made to the original Program Form.

Concurrent Registration

A student may, with the permission of the Dean of Graduate Studies, register for two concurrent degrees, either at Dalhousie or one at Dalhousie and one elsewhere, for a maximum of twelve months, usually the first academic year of the graduate program. This does not apply to an NSAC/Dalhousie student finishing his/her M.Sc. degree who has been accepted into a Ph.D. program. In that case, the student must first complete the Master's degree and then register in the Ph.D. program in January, May or September as applicable and approved by the department. If the student fails to complete the Master's degree for a particular entry point, the onus is on the department to defer the admission to the next available start date.

Leave of Absence

Students who need to take leave from their program of study because of illness (medical reasons) or a serious problem outside the student's control may apply in writing through the Graduate Coordinator for a Leave of Absence. If NSAC recommends to FGS that the Leave of Absence be granted, and if FGS is also satisfied that the need is justified, such leave will be granted. An official Leave of Absence does not count toward time in the program. Students may not hold stipends or scholarships during a Leave of Absence. During a leave of absence, a student cannot study elsewhere for credit at NSAC or Dalhousie University. Leaves of Absence will not be approved retroactively.

An application for a Leave of Absence is available at www.dalgrad.dal.ca/forms/student/#loa and must be completed by the student, in consultation with the student's supervisor. The Graduate Coordinator must recommend the Leave of Absence to the Dean.

Leaves of Absence can be granted for the following periods: September to December; January to April; and May to August. Students may apply for successive term leaves up to a maximum of three terms (one year).

Applications for Leave of Absence (limited to a total of three terms during an individual's program) must be made by August 16 for a leave commencing September 1, December 9 for a leave commencing January 1, and April 10 for a leave commencing May 1.

A Leave of Absence not only frees the student from the necessity of paying tuition fees, it also releases NSAC and Dalhousie University from the obligation to provide the student with services. These include consultations with professors, library and computer privileges, health services, and other student services.

Suspension of Studies

Unexpected emergencies that arise during the term cannot be accommodated by a Leave of Absence. Such cases can be accommodated through a suspension of program but no fee rebate is possible. A student must apply in writing to FGS for a suspension of program stating the reasons and the length of time requested, and it must be supported by the NSAC Graduate Coordinator. A suspension relieves the student from responsibilities for completing classwork and other program requirements, but it does contribute to time in the program (i.e., the clock does not stop ticking). Normally, a suspension of studies shall be for no longer than one term. Disposition of courses registered for during a term of suspension of studies must be agreed upon by NSAC, and approved by FGS.

Parental Leave

Parental leave will be granted, without prejudice to academic standing, at the time of pregnancy, birth, or adoption. A parent may request up to three terms of leave, which must be completed within twelve months of the date of birth or custody. Where both parents are graduate students seeking parental leave, the total number of terms may not exceed four. While on parental leave, students do not register or pay fees to NSAC. Any refund of fees will be governed by university regulations. Parental leave not only frees the student from the necessity of paying fees, it also releases Dalhousie University and NSAC from the obligation to provide the student with services. These include consultations with professors, library and computer privileges, health services, and other student services. It is recommended that students planning to take parental leave not only give adequate notice to their supervisor but also discuss issues such as future plans and progress, stipend support, and research deadlines. Only under well-documented extenuating circumstances will retroactive approval be given for parental leave.

Identification Cards

Full-time and part-time students will receive both NSAC and Dalhousie ID numbers. Students will receive NSAC ID cards that will entitle them to Novanet library services. The Novanet consortium comprises ten (10) postsecondary institutions: AST, Cape Breton University, Dalhousie, SMU, MSVU, St FX, Kings, NSCC, NSCADU, and NSAC. Students will have borrowing privileges at all of the above-listed institutions. Contact the NSAC MacRae Library for more information. Please note that because students are registered at Dalhousie University and are also given a Dalhousie ID number, NSAC graduate students can access the proxy server at Dalhousie University that allows access to the Dalhousie Library databases and electronic journals. Students will need their Dalhousie ID number to access their grades, and to update their personal information on Dalhousie's on-line access system at www.dal.ca/online.

Notification of Address

Correspondence from Dalhousie University and NSAC will be sent to the most recent address on file at these institutions. Students will be held responsible for complying with all notifications sent from either institution. Non-receipt of material because of failure to report a change of address will not excuse students from program responsibilities.

All students must report their local address while attending the M.Sc. program to the Research & Graduate Studies Office, upon registration or as soon as possible thereafter, and subsequent changes must be reported promptly. Changes of address must be reported to the Graduate Coordinator and a Change of Address form must be completed. The Graduate Coordinator will notify the NSAC Registry and Financial Services of the change in address.

Students are also required to ensure that Dalhousie University has their current mailing address, by updating their address on Dalhousie's on-line system (www.dal.ca/online—select “Update Address(es) and Phone(s)” from the Personal Information menu and add a new address, select the type to add and click the “Insert” button). Students will need their Dalhousie ID number and a password to enter the system.

E-mail

E-mail is an authorized means of communication for academic and administrative purposes within Dalhousie University and NSAC. All students will be assigned an official e-mail address by both Dalhousie University and NSAC. Both the Dalhousie University and NSAC e-mail addresses will remain in effect while the student remains a student. These e-mail addresses will be used for communication with students regarding all academic and administrative matters. Any redirection of e-mail will be at the student's own risk. Each student is expected to check both his or her official NSAC and Dalhousie University e-mail addresses frequently in order to stay current with program communications.

Change of Name

Students who change their name while attending the M.Sc. program must provide proof of name change (e.g. marriage or divorce certificates, official name change form, etc.). Students are to contact the Research & Graduate Studies Office for additional information.

FULL-TIME, PART-TIME, AND OTHER CATEGORIES

A full-time student is a student who has been approved by NSAC and FGS as working full-time on a graduate degree. A student may register full-time and hold a job simultaneously only if the job involves no more than 16 hours' work per week, including the hours worked as a teaching assistant.

A part-time student is a student who has been approved by NSAC and FGS as working part-time on a graduate degree. A part-time graduate student cannot carry more than 8 credit hours per term. International students are not admitted to the M.Sc. program on a part-time basis.

A continuing student is one who has completed the program fee and residency requirements but has not yet finished all the degree requirements (usually the thesis). The student is required to pay a continuing fee on a per-term basis.

A qualifying student is a person with a Bachelor's degree or its equivalent who meets normal admission standards and in whom NSAC has expressed an interest as a potential graduate student, but who is without sufficient academic background in a particular discipline to be enrolled directly into the Master's program. For example, a Qualifying Year may be used for a student to take an Honours equivalency certificate, or to take a year of senior undergraduate courses in an area of deficiency in their undergraduate degree. Only in exceptional circumstances may a student be admitted to a Qualifying Year to upgrade a below-standard undergraduate degree or academic record.

Qualifying students can be full-time or part-time. Because it is a prerequisite, a qualifying program cannot be used to reduce the length of a subsequent regular graduate program. Qualifying students are not eligible for scholarship or bursary support, and must apply for admission to the graduate program in the usual way toward the end of the qualifying period. They must pass all classes with an average of at least 'B' and no grades below 'B-', and fulfill any other requirements in order to be considered for admission.

Special students are those students who are permitted to take a graduate class outside the Master's program. Such students, who have not been admitted to the Master's program, may normally take a maximum of two full-credit classes with the permission of the class instructor and the Graduate Coordinator. Because all graduate classes must be taught at a consistent standard to graduate level students, non-program students must have records which meet the minimum entrance requirements for the graduate program (hence they must be approved by FGS, as admissible to the graduate program). Students are ineligible to apply for Special Student status in a class if they have been rejected from the program on account of academic standing, or have been withdrawn from the program. Students trying to qualify for entry to a graduate program must follow a different route: either a Qualifying Year program, if eligible, or a program

of study as a Special Student in an undergraduate faculty. Classes completed as a Special Student may not be used for credits toward the formal graduate program unless approval has been granted by FGS at the time of admission.

A letter confirming a student's registration and/or scholarship or stipend status can be produced on request. Students should contact the NSAC Research & Graduate Studies Office for information on this service.

FEES

Graduate students pay “program fees” for fixed periods, either as full-time or part-time students, followed by “continuing fees” until all program requirements have been completed. The current fee schedule is available each year in July. It can be obtained from the NSAC Research & Graduate Studies Office or the NSAC web site at www.nsac.ca/research/graduatestudies/fees.pdf.

Program Fees for Full-Time Students

Full-time graduate students pay program fees for a specific number of years depending on the program, after which they pay continuing fees until all the program requirements are completed. The one-year M.Sc. program involves a program fee requirement of one year (i.e., students admitted to the one-year program are required to pay three consecutive terms of full-time program fees). The two-year M.Sc. program involves a program fee requirement for the first two years of study. If students have to continue beyond the program fee requirement period to complete their degree, additional (continuing fees) are required.

Program Fees for Part-Time Students

Part-time graduate students pay the same program fees as full-time students, spread over three part-time years of study for every full-time year. If a part-time student completes the requirements for the degree before the full program fees have been paid, the balance of those fees must be paid prior to graduation.

In other words, a part-time student entering the one-year M.Sc. program will pay 9 consecutive terms of part-time fees, and a part-time student in the two-year program will pay 18 consecutive terms of part-time fees. Students who complete their part-time programs in less time will still be required to pay part-time program fees for the outstanding terms before they are approved for graduation.

Continuing Fees

Students who have completed the required program fee period and have paid all their fees, but are still short of completing their program, must pay a continuing fee until all the academic requirements of the program have been completed. Students are assessed continuing fees on a per-term fee basis. Usually, continuing fees are paid by students who are in the process of completing their thesis.

Graduate students must maintain continuous registration until their program requirements are complete, unless they are granted a formal Leave of Absence. Payment of fees is required for students to maintain their status in the program.

Procedures for Payment of Fees

Students will be billed in September for the Fall term; January for the Winter term; and May for the Summer term. Payment in full is due on the last day for registration (as published in the Graduate Program Procedures Manual) in each of the Fall, Winter and Summer terms. Fees not paid by the last day for registration will be subject to interest charges, and the student's registration may be cancelled. NSAC has the right to deduct tuition fees directly from a student's

stipend, NSERC PGS, IPS, or Canada Graduate Scholarship award (or any other outside scholarship paid to NSAC to administer on behalf of the funding agency).

Graduate students may not submit their approved thesis to Dalhousie University for binding nor will they be granted their degree or official transcripts until outstanding fees are paid in full. Any late fees and interest charges that apply to undergraduate students also apply to graduate students.

Students who have outstanding balances are not permitted to register for a further term unless they have received permission to register from the Vice President Administration. Students with outstanding account balances are required to meet with the Vice President Administration to sign an Outstanding Fee Form detailing in what manner the fees are to be paid and from which sources the funds are expected to arrive.

COURSE SELECTION AND ENROLLMENT

Selecting a Program

Students should meet with their supervisors before classes begin and design a complete program of suitable courses for each year of study. It is the student's responsibility to arrange this meeting. In selecting appropriate courses, the student must bear in mind the following:

- All graduate students must enroll for Thesis Research (AGRI9000) every semester even though they may expect to make little progress in that semester.
- Students in the one-year M.Sc. program are strongly encouraged to take all course work during their first year. However, if necessary, courses may be spread over more than one academic year.
- Graduate credit is obtained only for graduate courses, which are denoted by a 5000 number or above.

FINANCIAL SUPPORT

NSAC offers numerous entrance scholarships and research assistantships to eligible graduate students. All applicants to the Master of Science program are automatically considered for scholarship eligibility. The availability of research assistantships varies annually and from one area of research to another. Many research assistantships are posted on the Research & Graduate Studies web site at www.nsac.ca/research/graduatestudies/assistantship.asp. We encourage you to check the site regularly for opportunities in an area of research that may be of interest to you.

Several Differential Fee Waivers are awarded to international students annually. All international applicants are automatically considered. Differential Fee Waivers are awarded on the basis of academic merit and financial need.

The M.Sc. program requires that students assist in the teaching of at least one undergraduate course. Not only do students gain teaching experience but they are also reimbursed financially in the form of a Teaching Assistantship.

Stipends (Research Assistantships)

All graduate student stipends will be classified as scholarships regardless of their source. Graduate students are to be informed of the rate of the stipend prior to registration. Once a stipend rate is selected, that rate normally remains in effect for the duration of the stipend payment (usually 24 months). However, the rate of the stipend may be renegotiated if there is any change in the student's official academic status (e.g. change from full-time to part-time status) or if the student receives a major scholarship (e.g. NSERC PGS A, NSERC IPS, etc.). NSERC scholarship holders are expected to adhere to NSERC's Award Holders Guidelines (see www.nserc.ca). NSERC expects award holders to devote the majority of their time to the

expeditious completion of their degree program. As a guideline in this context, NSERC strongly suggests that award holders limit the number of hours of employment per 12-month period to 450. Award holders may not accept remuneration or supplements paid from other NSERC grants, whether paid as a scholarship or salary. Part-time NSERC PGS holders are not permitted to be employed during tenure of the award without NSERC's prior authorization. Stipend payments are managed by and distributed from the Research & Graduate Studies Office. Students receiving stipend support will receive stipend cheques on a monthly basis, at the beginning of each month. For these students, the first cheque will be issued 30 days following initial registration (e.g., if the program start date is September 1, the first stipend cheque will be issued on October 1). Graduate students funded under national scholarships (e.g. Canada Graduate Scholarships, NSERC Postgraduate Scholarships (PGS), NSERC Industrial Postgraduate Scholarships (IPS), etc.) will also receive their scholarships on a monthly basis at the beginning of each month. NSAC has the right to deduct tuition fees directly from the student's scholarship. Students with questions regarding their stipend payments are encouraged to contact Marie Law at the Research & Graduate Studies Office (mlaw@nsac.ca; 893-6502). Stipends and scholarships are considered taxable income, and must be reported on annual income tax returns. Students will receive the forms necessary to complete their income tax returns (T4 and/or T4A slips, and tuition credit receipts) from NSAC Financial Services annually. For tax purposes, stipends are considered scholarships rather than payment for work, and income tax is not withheld. It is advised that students set aside a portion of their income to pay income taxes that may be owing.

Research Costs

A student's supervisor is responsible for costs directly associated with research for the thesis, but all costs associated with writing and presenting the thesis are the student's responsibility.

Self-support

On the few occasions when a student is accepted to the M.Sc. program with no financial support, NSAC requires that the student submit a letter waiving any responsibility on the part of NSAC for financial support for the duration of the given program. However, this does not negate the possibility that support funding may subsequently be procured during or after the initial year.

Conference Grants

Students planning to present their research at a scientific meeting may apply to the Graduate Coordinator for a grant towards their expenses. Application forms are available from the Graduate Coordinator or on the NSAC website at www.nsac.ca/research/graduatestudies/forms/default.asp. A student may expect only one conference grant (up to a total of \$500) during the course of the M.Sc. Program, subject to the approval of the Graduate Coordinator, as financing permits. Receipts for expenses are required.

THESIS REGULATIONS

Ethical Review

Research Involving the Use of Animals

Research involving the use of animals must be approved by the NSAC's Animal Care & Use Committee (ACUC). The two key functions of this committee are:

- (i) to ensure that NSAC is in compliance with the Canadian Council on Animal Care (CCAC) with respect to standards and guidelines for the use of animals in research, teaching, and testing, and
- (ii) to monitor the numbers of animals used in research, teaching and testing according to purpose and level of invasiveness. This latter information is compiled with information from

other institutions across the country by CCAC to provide accurate reports on the use of animals in research, teaching, and testing.

Approval by the ACUC is REQUIRED for all animal use, on or off campus, in which NSAC faculty, staff, or students are involved. Any teaching, research, or testing use of animals requires an "Animal Care & Use Protocol", signed by an authorized representative of the ACUC, prior to assignment of animals to the project. The student's supervisor is responsible for completing and submitting the form.

The CCAC (www.ccac.ca) has mandated that all personnel involved with the use of animals in research, teaching, and testing must be adequately trained in the principles of laboratory animal science and the ethical issues involved in animal use. Graduate students who will be working with animals are required to complete a short course entitled "Experimental Animal User Training" within six months of registering at NSAC. The course is a WebCT computer-based package comprising background reading and a series of multiple-choice questions. Contact Ms. Jack (ljack@nsac.ca; tel 893-8209) to get a WebCT username and password. The Research & Graduate Studies Office checks that all students working with animals have completed the mandatory training at the time of the Admission to Candidacy examination. Students must submit proof of completion of the required animal training modules with their research proposal for the ATC examination.

Research Involving Human Subjects

All thesis research involving human subjects must be approved by the NSAC Research Ethics Board (REB). Projects which might typically arise at NSAC and which would require REB review are questionnaires, surveys, or interviews of individuals, where the human being is the subject of the investigation and personal opinions and practices are documented. Graduate students are to submit their proposals to the Graduate Coordinator who will, in turn, forward it to the REB Chair. The REB meets regularly, and the schedule of REB meetings is available at the Research & Graduate Studies Office. All proposals being submitted to the REB must be received at least 7 working days before the REB meeting in which they are to be reviewed. Meeting this deadline does not guarantee the review of the proposal at the next REB meeting; the REB is, however, committed to efficiently reviewing proposals. Students should allow six to eight weeks for processing. A copy of the NSAC letter of ethics approval will be forwarded to Ms. Lindley, Office of Research Services (Room 337, Arts and Administration Building, Dalhousie University, Halifax, NS, B3H 4H6) to put in the student's official file at Dalhousie University. Complete details on the NSAC's REB Policy and Process can be found on the Research & Graduate Studies Office website at www.nsac.ca/research/researchers/ethics.asp. For further information contact the Research & Graduate Studies Office, Cumming Hall, NSAC (893-6360 or 893-6502) or Lauranne Sanderson, Chair, Research Ethics Board, Department of Business and Social Sciences, Humanities House (lsanderson@nsac.ca).

Research Involving Biohazards

Researchers, graduate students, and instructors who are conducting, or propose to conduct, research involving biosafety hazards (e.g. infectious agents of animals including bacteria, viruses, prions, fungi, and parasites; infectious agents of plants including bacteria, viruses, viroids, and fungi; recombinant DNA, cell lines, and microbial toxins) must adhere to the standards outlined in the Laboratory Biosafety Guidelines, 3rd ed. 2004, which can be obtained in electronic copy from Dr. Glenn Stratton (gstratton@nsac.ca), NSAC Biosafety Officer, Department of Environmental Science, or from:
Office of Biosafety
Population and Public Health Branch
Health Canada

Ottawa, ON
K1A 0L2

Telephone: (613) 957-1779 (613) 957-1779 FREE

Facsimile: (613) 941-0596

www.hc-sc.gc.ca

Graduate students and researchers must obtain certification from Dr. Stratton that the laboratory procedures being used comply with the safety precautions necessary for the level of containment required by the research. Researchers who are proposing to work with biosafety hazards are asked to contact Dr. Stratton for specific details regarding the approval process, as certificates are customized for each research project. To streamline the approval process, researchers may send their approved research proposal to Dr. Stratton for consideration. No additional forms are required.

If, during the course of a grant, the research changes enough to require new or modified certification, the NSAC RGS Office must be informed promptly and the appropriate certification must be obtained and forwarded to the RGS Office.

Research must comply with federal, provincial, and municipal requirements for the use of hazardous materials and chemical and biological wastes in the workplace, and for their disposal.

Research Involving Radioactive Materials

Researchers, graduate students, and instructors using or proposing to use radioactive materials must obtain permission and approval from the NSAC Radiation Safety Officer, Department of Environmental Sciences. The NSAC Radiation Safety Officer is Dr. Robin Robinson (rrobinson@nsac.ca); the Assistant Radiation Safety Officer is Anne Swan (aswan@nsac.ca). The following forms are available from the Radiation Safety Office:

- Application for Internal Permit for Acquisition and Use of Radioactive Materials
- Application for Internal Permit for Use of Radioisotope Using Animals.

All researchers, graduate students, and staff using radioactivity must provide proof of completion of a radiation use and safety training program to the NSAC Radiation Safety Office. For information on the radiation use and safety training program offered at NSAC please contact Anne Swan.

Preparation of the Thesis

An acceptable thesis will describe in clear and concise language a contribution to knowledge of sufficient value to merit publication. It must be prepared according to instructions published by the Faculty of Graduate Studies and conform to Dalhousie University's requirements for thesis. The FGS Regulations for the Submission of Theses is available from the NSAC Research & Graduate Studies Office and from the FGS website. All thesis students must obtain a copy of these regulations, and students are responsible for ensuring that their thesis complies with all aspects of these regulations. Failure to do so may cause delays in completion, and may even result in the cancellation of a scheduled defence. Students and supervisors are referred to the CBE Style Manual for Authors, Editors and Publishers as a possible resource for guidelines of thesis style.

The thesis must be written by the student, but advice and constructive criticism from members of the supervisory committee should be sought during its preparation. Students are also encouraged to present a synopsis for discussion and conditional approval before beginning to write, but formal approval by the supervisory committee is not mandatory. Responsibility for the document presented rests with the student. The examining committee, in judging the thesis, is concerned primarily with the quality of the work and evidence of research contributions to knowledge. Students are encouraged to publish the results of their work at any stage of their

graduate program but must avoid conflict of copyright or contractual agreement. Students who have concerns regarding conflict of copyright or contractual agreement are urged to discuss these issues with their supervisor or to contact the NSAC Research & Graduate Studies Office for further information.

Thesis Originality and Editing

A thesis must present the student's own work, and all students are advised to read the university's regulations on plagiarism (including self-plagiarism). Dalhousie University's regulations on plagiarism can be found in the FGS Policy on Integrity in Scholarly Activity (available from Dalhousie University).

All students are expected to write their theses (and indeed, all their papers) in excellent English. While editorial correcting occurs as part of the supervisory process (as sections of the thesis are read and commented upon by supervisory committee members), faculty are not expected to have to make excessive correction to the standard of English. A committee member may refuse to read materials if they are not of an adequate standard of writing and expression for a graduate-level program. Supervisors should identify English problems early on and ensure that the student takes corrective measures, such as attendance at writing workshops. Requirements to improve a student's standard of English can be made compulsory if the student's language deficiencies are problematic to the progress and success of the research.

Just as the academic content of the thesis must reflect the student's own work, so must the standard of writing and expression. While students are encouraged to make use of standard spelling and grammatical checkers within their word processing software and to have individuals proofread their papers and draft manuscripts, the use of "professional" editorial services (other than strict proofreading and formatting) is prohibited. The use of editorial services which provide substantive rewriting and/or improvement of the written English within a thesis is a form of academic fraud (similar to plagiarism) because it presents a standard of work that has not been achieved by the student and is therefore giving a false impression of the quality of the student's work. If the use of any professional services is contemplated, students must consult with their supervisor and Graduate Coordinator before taking any action. The Graduate Coordinator will contact the FGS office for advice if needed.

Submission of Thesis for Examination: M.Sc. Thesis

All students must refer to the schedule of Academic Deadlines in the Dalhousie University Graduate Studies Calendar 2006/2007 for submission deadlines and registration deadlines. Students must be registered for the term in which they present their approved unbound theses to FGS, Dalhousie University, and for the term in which they have their defence. Students will not be permitted to submit their theses or proceed to defence until they have appropriately registered and all fees have been paid. Deadlines for the submission of fully completed and approved theses (following examination and revision) are final in all cases. Failure to meet the deadlines will result in additional registration fees being applied. It is the responsibility of the student to ensure that all regulations have been met. Failure to comply with the regulations can result in delay in graduation.

Students must submit a completed Thesis Defence Planning form, signed Supervisor Thesis Defence Signature form (available from the NSAC website at www.nsac.ca/research/graduatestudies/forms/default.asp), and sufficient copies of the M.Sc. thesis for each member of the examining committee (including the supervisor, supervisory committee members, external examiner, chair, and graduate coordinator) to the Graduate Coordinator before the date of the thesis defence is finalized. The thesis must be complete and suitable for printing, if accepted. The defence date is set for a minimum of three weeks following the receipt of the thesis and accompanying documentation at the Research & Graduate Studies Office. (The Thesis Defence Guidelines document is available at the Research & Graduate Studies Office.) Graduate students are encouraged to meet with the Graduate

Coordinator six weeks prior to their intended defence date to discuss preparations required for the defence and to obtain the necessary forms (Thesis Defence Planning form and Supervisor Thesis Defence Signature form).

Thesis Defence

Appointment of Examiners

The Thesis Examining Committee is usually the Supervisory Committee, an External Examiner, and the Department Head, who chairs the examination. The external examiner is recommended by the student's supervisor in consultation with the student. In selecting the external examiner, the following priority should be used: (a) qualified scholars outside of NSAC (e.g., member of a graduate faculty of another university), (b) Honorary Research Associates and Adjunct Professors of NSAC, (c) NSAC Faculty from a department other than that with which the student is most closely associated, (d) NSAC Faculty from the department with which the student is most closely associated, but not on the student's supervisory committee. The external examiner must not have been involved with the supervision or direction of the thesis, and must be in a position to render an objective and impartial assessment of the quality of the work. The external examiner may be a non-faculty member (such as a practising professional who does not hold an Adjunct appointment with a university) when it is deemed that they have the appropriate professional and academic qualifications and expertise to assess a graduate thesis. In all cases, the external examiner must be approved by the Vice President Academic, NSAC. The external examiner does not necessarily attend the defence but may instead submit a written report and questions prior to the examination.

The main role of the Chair is to ensure that the procedures are carried out in an appropriate manner, to record the examiners' written comments and the results of the examination for inclusion in the student's file, and to inform the NSAC Research & Graduate Studies Office of the outcome.

Supervisors, in consultation with their students, are responsible for completing the Thesis Defence Planning form (available from the Research & Graduate Studies Office). The Thesis Defence Planning Form must be submitted to the Graduate Coordinator at least four weeks prior to the intended defence date. The Thesis Defence Planning form serves to:

- notify the Graduate Coordinator when the student is ready to defend;
- provide administration with the names of three potential External Examiners; and
- provide the Graduate Coordinator with all relevant information regarding the proposed date of the defence, and the availability of supervisory committee members.

Examination Format

The thesis shall be defended orally before the Thesis Examining Committee and any other interested persons who choose to attend. A public announcement of the examination shall normally be posted at least two weeks before the event. A defence consists of a 10- to 20-minute survey by the candidate of the scope of the problem and main achievements in the research. This is followed by questions and comments from the external examiner and the student's response. After the members of the Thesis Examining Committee and the audience have questioned the candidate, the Thesis Examining Committee deliberates in camera, basing the decision on both the quality of the thesis and the candidate's ability to defend it.

Examination Results

The outcome is decided by consensus of the members of the Thesis Examining Committee present. Theses are either approved or not approved. The categories are:

- Approved as submitted.
- Approved upon specific corrections being made. A clear timetable for completion of the revisions must be presented to the student, normally with a maximum of one month to complete the revisions. The supervisor is usually asked to monitor the required changes. Usually

at least two members of the Examining Committee read the revised thesis to provide final approval.

- Rejected but with permission to re-submit a revised thesis for re-examination. A clear timetable for completion must be presented, normally with a maximum of one year to resubmit. Major revisions may be on grounds of form as well as content. When re-submitted, the thesis will be re-read by an examining committee that includes at least two members from the original Thesis Examining Committee. The thesis shall be sent to an external examiner who may be the original external examiner if the Chair of the examination considers this desirable. The revised thesis shall be defended in the usual way.

- Rejected outright. The rejection may be on grounds of form as well as content. The candidate or supervisor may appeal this decision to the Chair of the examination in writing within five working days of the decision. If the Chair deems the evidence to be sufficiently strong, the Chair of the examination shall initiate the procedure for a re-examination. No more than one appeal may be entertained, and the examination Chair's decision shall be final.

In all cases, all members of the Examining Committee must submit written examination reports, dated and signed, which shall become part of the candidate's file. The Chair's written report shall summarize the outcome of the examination process, the final decision, and any conditions attached. In the case of an outright failure or failure with a right to submit by a specific date, the Graduate Coordinator must send a written notification of failure to FGS.

Presentation of Thesis for Graduation

Deadlines

Students are responsible for presenting to FGS one copy of the corrected and approved thesis for a formal check at least one week before the deadline date for submission of approved theses to FGS (the deadline date is published annually in the Dalhousie University Graduate Studies Calendar and the NSAC Graduate Program Procedures Manual). Following a format approval by the FGS, students are responsible for presenting to the FGS six unbound copies of the corrected and approved thesis. Only good quality photocopies or printed copies will be accepted. In addition, each student is to present a corrected and approved copy of the thesis to the Research & Graduate Studies Office.

Binding and Distribution

NSAC students must submit six copies (original plus five copies) of the approved unbound thesis to FGS. The Dalhousie Faculty of Graduate Studies will arrange for binding of the six copies of the thesis and its subsequent distribution as follows:

- one copy to the author
- one copy to the student's supervisor
- one copy to the student's department
- one copy to the NSAC Library
- one copy to the Dalhousie University Library
- one copy to the National Library of Canada.

The Dalhousie University Library arranges for the production of a microform copy to be retained in the National Library, Ottawa, and listed in Dissertation Abstracts International or Masters Abstracts International. The National Library can then circulate such copy according to the International Inter-Library Loan Code, with full copyright protection; it also guarantees a permanent record of the thesis. The Dalhousie University Library retains one bound copy in the University Archives.

At the time of submitting the unbound, approved thesis (original and five copies) to the FGS office, the student will present a cheque for \$120* payable to the Faculty of Graduate Studies

Office, Dalhousie University. This sum will cover the cost of binding. The cost of binding each additional copy of the thesis is \$20*. An additional charge will be made (where appropriate) to cover mailing costs.

*Binding cost is subject to change without notice.

CONVOCATION

Graduate students have the option of attending convocation ceremonies at either NSAC or Dalhousie University. Convocation ceremonies are held at NSAC in May and at Dalhousie University in May and October. Students must fulfill all requirements including the payment of all fees prior to graduation. Applications to graduate are available at the Research & Graduate Studies Office and must be submitted to the Graduate Coordinator by July 1 to graduate in October and by November 15 to graduate the following May.

Any graduating student who is unable to appear at convocation is expected to notify the Graduate Coordinator in writing prior to April 15 for Spring convocation (or October 1 for Fall convocation at Dalhousie University). Students whose accounts are delinquent on April 15 will not receive their degree parchment or their transcripts. For October graduation the date is September 1.

When a student has fulfilled all the requirements for the degree (including payment of all program fee requirements and any continuing fees) in advance of the official graduation date, a letter to that effect can be obtained from the Faculty of Graduate Studies Office, Dalhousie University. The Confirmation Letter Request form is located on the FGS website under "Forms and Documents of Students".

GRADUATE CURRICULUM LISTING

Graduate Courses

Graduate courses are intended for students registered in the M.Sc. program and may be taken by undergraduate students only under exceptional circumstances.

Required Regular Courses

These courses are restricted to graduate students.

AGRI5700: Communication Skills and Graduate Seminar

AGRI9000: Graduate Thesis

Recommended Regular Courses

Where an undergraduate student wishes to take one of these graduate courses, the following signatures are required for approval: the instructor(s), the relevant Department Head(s), and the Graduate Coordinator.

AGRI5710: Module Course I

AGRI5630: Intermediate Statistical Methods (STAT4000)

AGRI5720: Applied Statistics and Experimental Design for Agriculture (The prerequisite for this course is AGRI5630 or STAT4000.)

Other Regular Courses

Where an undergraduate student wishes to take one of these graduate courses, signatures of the following are required for approval: the instructor(s), the relevant Department Head(s), and the Graduate Coordinator.

AGRI5270: Economic Entomology

AGRI5350: Animal Research Methods

AGRI5360: Protein Nutrition
AGRI5380: Quantitative Genetics
AGRI5390: Molecular Genetic Analysis of Populations
AGRI5440: Organic Environmental Analysis
AGRI5520: Plant Breeding Methods
AGRI5530: Nitrogen in Crop Production
AGRI5560: Advanced Crop Physiology
AGRI5705: Module Course II
AGRI5740: Advanced Studies in Food Chemistry

Special Topics Courses

Special Topics courses may be taken by undergraduate students only under exceptional circumstances. The following signatures are required for approval: the instructor(s), the relevant Department Head(s), and the Graduate Coordinator.

AGRI5210: Special Topics in Environmental Microbiology
AGRI5220: Special Topics in Weed Science
AGRI5240: Special Topics in Environmental Impact
AGRI5260: Special Topics in Plant Pathology
AGRI5310: Special Topics in Applied Ethology
AGRI5320: Special Topics in Animal Nutrition
AGRI5340: Special Topics in Animal Physiology
AGRI5370: Special Topics in Animal Breeding and Genetics
AGRI5410: Special Topics in Soil Fertility
AGRI5430: Special Topics in Environmental Analysis
AGRI5460: Special Topics in Soil and Water Management
AGRI5470: Special Topics in Analytical Instrumentation for Researchers
AGRI5510: Special Topics in Plant Breeding
AGRI5540: Special Topics in Crop Physiology
AGRI5570: Special Topics in Agricultural Biotechnology
AGRI5610: Special Topics in Animal Product Technology

Cross-referenced Courses

Cross-references with undergraduate courses are shown in brackets ().

AGRI5250: Soil Microbiology (MICR4000)
AGRI5450: Environmental Soil Chemistry (SOIL4000)
AGRI5620: Ruminant Digestive Physiology and Metabolism (NUTR4000)
AGRI5750: Biotechnology (GENE 4003)

GRADUATE COURSE DESCRIPTIONS

AGRI5210 (AG521): Special Topics in Environmental Microbiology

Instructor: Prof. Stratton

This course will allow students to study a particular topic in the field of environmental microbiology in more depth than would be practical in a general course. The student will choose a topic in consultation with the instructor. An in-depth literature search will be required, and the material gathered will be discussed in weekly tutorial sessions. Laboratory work will be conducted when required and if appropriate to the topic chosen. Topics for study can be of either a theoretical or applied nature, with the needs of the student being a primary factor in finalizing the topic.

Fall semester – to be arranged with the instructor.

AGRI5220 (AG522): Special Topics in Weed Science

Instructor: Prof. Sampson

Topics might include: evolution of weeds, impact of weeds on human history, weed ecology and physiology, crop/weed interactions, herbicide chemistry, physiological and biochemical behaviour of herbicides in plants, environmental fate of herbicides, mycoherbicides, and biorationals. Two term projects and a research critique will be required.

Winter semester – to be arranged with the instructor.

AGRI5240 (AG524): Special Topics in Environmental Impact

Instructor: Prof. Stratton

This course will allow students to study a particular topic in the field of environmental impact or environmental toxicology in more depth than would be practical in a general course. The student will choose a topic for study in consultation with the instructor. An in-depth literature search will be required, and the material gathered will be discussed in weekly tutorial sessions. Laboratory work will be conducted when required and if appropriate to the topic chosen. Topics for study should be related to the student's area of research or interests.

Winter semester – to be arranged with the instructor.

AGRI5250 (AG525): Soil Microbiology

cross-referenced as MICR4000

Instructor: Prof. Stratton

This course is designed to provide an intensive study of the microbiology of soils and will emphasize nutrient cycling and biodegradation. Topics covered include the relationships between the abiotic and biotic components of soils, the microbial biochemistry of the carbon, nitrogen, sulphur, phosphorus, and selected micronutrient cycles, heavy metal cycling, and the microbial degradation of industrial wastes and pesticides. The laboratory classes will concentrate on techniques to monitor the microbial biomass in soil and the microbial components of nutrient cycles. These include new advances in bacterial taxonomy and identification and the use of gas chromatography and high-performance liquid chromatography in quantitating nutrient cycling. In addition to a major term paper, a comprehensive laboratory report on the entire term's lab work, and a single take-home examination, graduate students will be required to:

- modify the term paper into a critical review of some aspect of soil microbiology (chosen in consultation with the instructor); the review must be current and in depth; it must be written in manuscript format and will be graded accordingly;
- perform additional laboratory exercises not assigned to undergraduate students; use more replicates; perform a full statistical analysis of data; provide a report in manuscript format;
- give a seminar to the class on their term paper topic.

Fall semester – to be arranged with the instructor. Offered in alternate years; next offered in 2006/2007.

AGRI5260 (AG526): Special Topics in Plant Pathology

Instructors: Profs. Gray and Singh

This course will be custom-designed to meet the specific needs of graduate students specializing in the area of plant pathology who need further specific knowledge and/or skills.

Fall or Winter semester – to be arranged with the instructor.

AGRI5270 (AG527): Economic Entomology

Instructor: Prof. Le Blanc

Insect pest management in agriculture with emphasis on a selection of non-chemical approaches to insect control, e.g. natural, mechanical, physical, cultural, biological, biochemical, and/or legal control. According to the student's interest, a section on chemical control can be

included. This course is consistently in accord with the theory and principles of integrated pest management (IPM) and consequently, the term assignments will incorporate the study of sampling techniques and monitoring methods of insect pests and related beneficial arthropods. Attendance at certain relevant seminars may be required and directed readings may be assigned.

A case history of a major agricultural insect pest will be prepared to satisfy the course requirement. The material will be submitted in term paper format and also delivered in an oral presentation. The case history will include the life cycle, host plants, pest status, damage, losses, control measures, research needs, and IPM programs pertinent to the particular species.

Winter semester – 2 lecs and 1 tutorial per week.

AGRI5310 (AG531): Special Topics in Applied Ethology

Instructor: Prof. Tennesen

Course content will vary. Topics covered will be chosen so as to meet the requirements of individual graduate students. Aspects could include the assessment of farm animal welfare, foraging behaviour, environmental enrichment, social dynamics of livestock, and early rearing environment and the effect on later behaviour.

Fall or Winter semester – to be arranged with the instructor.

AGRI5320 (AG532): Special Topics in Animal Nutrition

Instructors: Profs. Anderson and Fredeen

The course is designed to provide an opportunity to study specific aspects of animal nutrition. Aspects could include study of a particular nutrient, a process in nutrition, a nutritional state, or nutrient metabolism of a specific species, with focus on the research method. Students are advised to consult with their supervisors to determine the specific scope of the topic to be studied.

Fall or Winter semester – to be arranged with the instructor.

AGRI5340 (AG534): Special Topics in Animal Physiology

Instructor: Prof. MacLaren

This course is for students with a major interest in animal physiology. The course will consist of discussions, term papers, and presentations. Students will be expected to nominate topics for consideration and to prepare major reviews and class presentations of selected topics.

Fall or Winter semester – to be arranged with the instructor.

AGRI5350 (AG535): Animal Research Methods

Instructors: Dept. of Plant and Animal Sciences Faculty

This course is designed for students who are, or expect to be, working in Animal Science, or who have an interest in the methodology and ethics of animal research. The course will include consideration of some of the common or promising laboratory and field methods associated with domestic animal research, ethics of animal research, and the analysis, interpretation, and reporting of results. Students will be expected to participate in exercises, to contribute to discussions, and to present reviews on various aspects.

Fall semester – to be arranged with the instructor.

AGRI5360 (AG536): Protein Nutrition

Instructor: Prof. Anderson

A study of the sources, availability, and metabolism of protein and amino acids for the domestic animal. Subjects addressed include sources of protein, factors affecting digestibility of protein, digestion and absorption of protein and nitrogen, urea recycling, individual amino acid metabolism, excretion of nitrogenous wastes in birds and mammals, and protein and amino acid requirements of animals.

Winter semester – to be arranged with the instructor. Offered in alternate years; next offered in 2006/2007.

AGRI5370 (AG537): Special Topics in Animal Breeding and Genetics

Instructors: Dept. of Plant and Animal Sciences Faculty

Provides students with an opportunity to pursue more detailed studies in Animal Breeding/Genetics. Topics will be decided on by the student in consultation with faculty members for the purpose of meeting the student's specific needs as defined by the thesis research. Delivery will be a combination of directed reading and tutorial discussions.

Fall or Winter semester – to be arranged with the instructor.

AGRI5380 (AG538): Quantitative Genetics

Instructor: Prof. Patterson

An introduction to quantitative genetics theory and to statistical techniques used in domestic animal improvement. Computing and statistical techniques will be demonstrated and presented, and relevant literature will be surveyed. Reference will be made throughout to performance recording programs used in Canada and throughout the world.

Winter semester – to be arranged with the instructor.

AGRI5390 (AG539): Molecular Genetic Analysis of Populations

Instructor: Prof. Farid

This course is designed to give graduate students some understanding of the theoretical aspects of population and molecular genetics. Various DNA fingerprinting techniques, such as minisatellites, microsatellites, RAPD-PCR, FRLP-PCR and SSCP-PCR, and their applications in population genetic studies will be discussed. Students will acquire hands-on experience with some of these techniques. Analysis of molecular data to estimate intrapopulation populations (heterozygosity, Hardy-Weinberg equilibrium) and interpopulation parameters (test of heterogeneity of allele frequency distributions, genetic distances, phylogenetic analysis, bootstrapping, F-statistics) will be covered.

Fall or Winter semester – to be arranged with the instructor.

AGRI5410 (AG541): Special Topics in Soil Fertility

Instructor: Prof. Percival

The course is designed to provide an opportunity to study specific aspects of soil fertility. Topics may include the influence of soil biological, chemical, and physical properties and processes on nutrient absorption and plant growth, with emphasis on essential plant nutrients in the soil and methods for evaluation, as well as the use of inorganic and organic amendments.

Winter semester – to be arranged with the instructor.

AGRI5430 (AG543): Special Topics in Environmental Analysis

Instructor: Prof. Hoyle

Students may apply to undertake either a specially designed course in environmental analysis, or to undertake additional work further to Organic Environmental Analysis. This may be facilitated with written consent from the instructor who then assumes personal responsibility for supervising the work.

Fall or Winter semester – to be arranged with the instructor.

AGRI5440 (AG544): Organic Environmental Analysis

Instructor: Prof. Hoyle

This course has limited enrollment.

The course will involve the study of the analytical chemical techniques used in the analysis of environmental samples obtained from the atmosphere, hydrosphere, and lithosphere. Included

in this study will be the sampling methods used for air, water, soil, food, and wastes, and modelling of environmental contamination. In addition, government regulations, hazard assessment, and public awareness of these issues will be discussed. In addition to successfully completing examinations, graduate students will be required to:

- write a major paper on an important topical issue;
- present that paper as a seminar before departmental faculty, staff, and students; and
- write a research proposal prior to starting the laboratory project.

Fall semester – to be arranged with the instructor. Offered in alternate years; next offered in 2006/2007.

AGRI5450 (AG545): Environmental Soil Chemistry

cross-referenced as SOIL4000

Instructor: TBA

The course is designed to provide an opportunity to study specific aspects of environmental soil chemistry. Topics may include the chemical composition of soils with special attention to soil biochemistry and soil organic matter with an emphasis on organic matter—clay interactions, soil organic N, P, and S, and soil enzymology. Graduate students will be expected to participate in lecture/discussion sessions and complete required reading assignments. In addition, graduate students will be required to complete research papers and present their findings at in-class seminars.

Winter semester – to be arranged with the instructor. Offered in alternate years; next offered in 2006/2007.

AGRI5460 (AG546): Special Topics in Soil and Water Management

Instructors: Profs. Havard, Madani, and Gordon

This course will discuss the state-of-the-art soil and water management practices in either humid or arid regions, depending on the specific needs of the graduate students. Topics may include: fundamentals of soil and water properties; drainage and water table control; management of farm irrigation and draining systems; salinity control; irrigation water requirements; drainage requirements for humid and arid regions; soil conservation; and computer modelling of irrigation and drainage systems. Guest speakers will be invited to share their experiences with the students.

Fall or winter semester – to be arranged with the instructors.

AGRI5470 (AG547): Special Topics in Analytical Instrumentation for Researchers

Instructors: Profs. Crowe, Hoyle, and Stratton

This course is designed to meet the needs of graduate students who are using analytical instruments in their research. The course will provide the graduate student with specific theoretical knowledge and the necessary practical skills required to properly use these instruments. The student will select either one of the following areas for detailed consideration, or two to three of the following areas for a more general coverage: gas chromatography, liquid chromatography, atomic analysis, DNA or protein electrophoresis, infrared or fluorometric analysis, NMR, mass spectrophotometry, and microscopy.

Fall or Winter semester – to be arranged with the instructors.

AGRI5510 (AG551): Special Topics in Plant Breeding

Instructors: Dept. of Plant and Animal Sciences Faculty

This course is designed to meet the specific needs of graduate students specializing in the area of Plant Breeding who need further specific knowledge and/or skills.

Fall or Winter semester – to be arranged with the instructor.

AGRI5520 (AG552): Plant Breeding Methods

Instructors: Dept. of Plant and Animal Sciences Faculty

Genetic and statistical principles underlying modern plant breeding methods are introduced. Those principles will be reinforced through the use of computer models. Cultivar development techniques for self- and cross-pollinated species are examined in detail. Applications of tissue culture, genetic engineering, and marker-facilitated selection are discussed. This course is open to students who have had introductory courses in genetics, plant breeding, statistics, and molecular biology.

Fall semester – to be arranged with the instructor.

AGRI5530 (AG553): Nitrogen in Crop Production

Instructor: Prof. Martin

Students will study the transformations of N in air, soil, water, and plants, and consider crop requirements for N. Topics include the chemistry of N, the N cycle, N transformations in soil, N metabolism in plants, N transport in plants, N-fixation, N losses in agricultural systems, and an evaluation of N fertilizer in these systems.

Fall semester – to be arranged with the instructor. Offered in alternate years; next offered in 2006/2007.

AGRI5540 (AG554): Special Topics in Crop Physiology (A)

Instructors: Profs. Caldwell, Asiedu, Goodyear, Lada, and Martin

This course is designed to meet the specific needs of graduate students specializing in the area of Crop Physiology who need further specific knowledge and/or skills.

Fall or Winter semester – to be arranged with the instructors.

AGRI5560 (AG556): Advanced Crop Physiology

Instructor: Prof. Caldwell

Physiological processes relevant to crop plant development and production of harvestable yield will be examined.

Fall or Winter semester – to be arranged with the instructor. Offered in alternate years; next offered in 2007/2008.

AGRI5570 (AG557): Special Topics in Agricultural Biotechnology

Instructor: Prof. MacLaren

This course is designed to meet the specific needs of graduate students specializing in the area of Agricultural Biotechnology who need further specific knowledge and/or skills.

Fall or Winter semester – to be arranged with the instructor.

AGRI5610 (AG561): Special Topics in Animal Product Technology

Instructors: Dept. of Plant and Animal Sciences Faculty

This course will review areas important in the technology of foods derived from animals (meat, fish, eggs, milk). Such areas could include chemistry (lipid oxidation, Maillard reactions), physics (changes caused by freezing, sol-gel conversion, colour) and microbiology (spoilage, pathogenic organisms, modified-atmosphere packaging, HACCP). Each student will be expected to present a review of a particular topic.

Fall semester – to be arranged with the instructor.

AGRI5620 (AG562): Ruminant Digestive Physiology and Metabolism

cross-referenced as NUTR4000

Instructor: Prof. Fredeen

Prerequisites: NUTR3000, CHEM3006

This course is designed to provide an intensive study of food intake and digestion, and nutrient absorption and metabolism, in the ruminant animal. The course details current knowledge and

focuses on aspects of future research interest. Students are expected to contribute to discussions and present reviews to the class on various aspects of the subject.
Fall semester – 3 lecs and 2 labs per week. Offered in alternate years; next offered in 2006/2007.

AGRI5630 (AG563): Intermediate Statistical Methods

cross-referenced as STAT4000

Instructor: Prof. Astatkie

Prerequisite: STAT3000, or permission of the instructor

Analysis of single-factor experiments, randomized blocks, latin squares, and factorial and two-level fractional factorial designs.

Fall semester – 3 lecs and 1 computer lab per week.

AGRI5700 (AG570): Communication Skills and Graduate Seminar

Instructors: TBA

Through practical assignment, students will be able to test and develop their communication skills. Topics will include review, criticism, and writing of journal papers, grant applications, posters, seminars, lectures, and interviews. This course is required for students enrolled in the M.Sc. in Agriculture program.

Fall and Winter semesters – 1 lec per week.

AGRI5705 (AG573): Module Course II

Coordinator: Prof. Caldwell

Prerequisite: AGRI5710

This course normally consists of three modules. Each module consists of one month of lectures or assignments dealing with a topic in the lecturer's area of expertise. Research interests of incoming students are taken into account each year when module topics are solicited. Students should not apply to take a module unless they have at least a second-year undergraduate background in the focus area. A formal evaluation is made at the end of each module.

Fall/Winter semester: Students registering for the module course in September must complete three modules between September and April (8 months).

Winter/Summer semester: Students registering for the module course in January must complete three modules between January and August (8 months).

AGRI5710 (AG571): Module Course I

Coordinator: Prof. Caldwell

This course normally consists of three modules. Each module consists of one month of lectures or assignments dealing with a topic in the lecturer's area of expertise. Research interests of incoming students are taken into account each year when module topics are solicited. Students should not apply to take a module unless they have at least a second-year undergraduate background in the focus area. A formal evaluation is made at the end of each module.

Fall/Winter semester: Students registering for the module course in September must complete three modules between September and April (8 months).

Winter/Summer semester: Students registering for the module course in January must complete three modules between January and August (8 months).

AGRI5720 (AG572): Applied Statistics and Experimental Design for Agriculture

Instructor: Prof. Astatkie

Prerequisite: STAT4000, AGRI5630, or equivalent

This course is designed to provide practical skills in statistical methods and experimental designs, and an appreciation of situations when more complex models and methods are required. Topics include linear and nonlinear regression, split-plot designs, repeated measures,

and response surface methods. Students will be expected to successfully complete practical exercises and a project involving real experimental problems and data sets. Students will also be expected to acquire proficiency in at least one advanced statistical software package.
Winter semester – 3 lecs per week.

AGRI5740 (AG574): Advanced Studies in Food Chemistry

Instructor: Prof. Crowe

Prerequisite: one undergraduate food science course or equivalent

This course is designed to allow graduate students to explore in detail various aspects of the chemical nature of agri-food products. This may include but is not limited to a study of naturally occurring components (functional foods and nutraceuticals), nutritional changes during value-added processing, and product formulation. The exact focus of the course will depend on the expressed interest of students in the course.

Fall or Winter semester, to be arranged with the instructor – 1 lec and 1 discussion per week.

AGRI5750: Biotechnology

cross-referenced as GENE 4003

Instructor: Prof. Wang-Pruski

Prerequisite: GENE2000 or equivalent

This course is to provide students with general information on the theory and technologies that are currently used in biotechnology. Course topics will include gene identification, transformation and expression regulations, tissue culture and cell culture techniques, and other genomics related agricultural applications. Nutraceutical and pharmaceutical applications will also be discussed.

Winter semester. Offered in alternate years; next offered in 2007/2008.

AGRI9000 (AG900): Graduate Thesis

Students register for this course when they are engaged in research work for credit towards the M.Sc. in Agriculture degree.

Fall and Winter – for duration of program.

I. ENTRANCE SCHOLARSHIPS AND BURSARIES

Specific inquiries regarding scholarships and bursaries should be directed to the college's Awards Office located in the Lower Level of the Student Services Centre, 11 River Road on

campus, by phone at (902) 893-6729 (902) 893-6729 FREE ,
by fax at (902) 895-4547, or by e-mail at bcrouse@nsac.ca.

The College's Scholarship Committee reserves the right to authorize changes at any time to the selection criteria and awarding of scholarships, bursaries, and prizes.

Definition of Terms

Award

An award is a general term used to mean any presentation made to a student.

Governor General's Medal

The Governor General's Medals are awarded to the students with the highest academic standing graduating each year in the Technical, Bachelor's, (B.Sc.(Agr.) and B.Tech) and M.Sc. programs.

Scholarship

A scholarship is an award to a student based primarily on academic performance, although other criteria may be considered based on the donors' requirements.

Bursary

A bursary is a monetary award to a student where the primary criterion is not academic performance.

Prize/Gift

A prize or gift is an award given to a student based on the selection of the donor.

International Student

For scholarship purposes, all students paying the international tuition differential are eligible for scholarships for International students.

*Note: Where the selection criteria are not specified in the descriptions of the various scholarships, bursaries, and prizes that follow, the above guidelines apply.

The following guidelines determine year of study in the B.Sc.(Agr) program:

8 courses successfully completed – 2nd year

19 courses successfully completed – 3rd year

28 courses successfully completed – 4th year

**Note: Selection of scholarship and bursary winners is primarily based on the work of the previous year with consideration also given to the cumulative average of the work done at NSAC. Generally students must be enrolled on a full-time basis in a program of study to be considered for scholarship and bursary selection; preference will usually be given to students completing 8 courses per year with no fewer than 3 courses per semester.

***Publicity Disclaimer: It is the policy of the NSAC to publish the names, home town, photo and under some circumstances the addresses of recipients of scholarships, prizes, awards, and bursaries. Those students who do not wish this information published must notify the Awards Office at the time of their acceptance of the award.

****Scholarship Selection: Scholarship selections are made by either the NSAC, the NSAC Scholarship Committee, or Donors or their Administrators.

Procedure for Appeals to Scholarship Renewal Decisions

Students may appeal scholarship renewal decisions based on extenuating circumstances. Generally, reasons must be severe and must be documented. Other grounds may be considered at the discretion of the Scholarship Committee.

Appeals will generally be considered from students who have the following grounds for appeal:

1. medically documented/supported personal illness or psychological/physical trauma
2. documented/supported traumatic circumstances in immediate family such as death or serious illness.

Students must submit a letter in writing to the Chair of the Scholarship Committee requesting a review of a scholarship renewal decision. The letter should clearly demonstrate the extenuating circumstances. Documentation supporting any claims must also be included. All information contained in the letter will be kept confidential within the Committee. Students will be informed of the Committee's decision by letter. All decisions of the committee are final.

To Receive Application Forms

Application forms for most of the awards offered through NSAC are available by visiting our website www.nsac.ca/csa. Simply double click on any title and you are able to print off a copy. If not able to do this, please contact the NSAC Awards Office as noted on cover, to get copies sent out to you.

Scholarship Renewal Criteria

1. Renewable scholarships are renewed automatically at their initial value provided the student has maintained an average of 80% or greater (unless otherwise specified) for every year of study for which the scholarship was renewable. Renewable scholarships are renewed annually on a continuous basis, based on the work of the previous year (once forfeited cannot be re-instated).
2. Scholarships are renewed based on an 80% average for the full year of study (80% is not required in each semester). A year of study is normally defined as September 1 to August 31; students who do not follow the normal year of study will be considered by the Scholarship Committee on an individual basis.
3. To be eligible for scholarship renewal, students must maintain registration in at least 80% of the number of courses for the normal course load per semester for both the previous and the current year.
4. For scholarship purposes, averages are calculated to the nearest whole number (if an average falls exactly between two whole numbers, the average is rounded up).
5. The average is determined by all marks earned by the student in the previous year; non-credit courses (CHEM0050, MATH0050 and PHYS0050) are included in the calculation of the year's average for degree students.
6. To be eligible for scholarship renewal, a student may not have any failed courses (including Drop Fails).
7. A student who does not satisfy all the above criteria due to medical or other extenuating circumstances may appeal in writing to the Awards Office.

*The above criteria generally apply to all renewable scholarships (e.g. NS Department of Agriculture, Harrison McCain Scholarships, NSAC Entrance Scholarships for CEC Students, Atlantic Scholars Awards, NS Power, Isgonish IODE).

Staggered Application Deadlines

To help with the processing of applications received for the fall selection process, there is a staggered schedule of application deadlines. Please note application deadlines may be September 20, September 22, September 29, or October 5. These dates are indicated in the award descriptions. To be sure you don't miss out on application deadlines, please note application deadline dates for awards you are applying to.

Application Selection Process

When applying for scholarships, bursaries, or awards at NSAC please note that the selection review is not a quick process. In most cases applications must be reviewed by the NSAC Scholarship Committee from mid-September to mid-October. The complete list of winners will be posted one week prior to Autumn Assembly. Awards won through the Autumn Assembly selection process are credited to student accounts in January, unless special written requests are made. Students should budget accordingly.

2006 Nova Scotia Agricultural College Entrance Scholarships at a Glance

\$ 35,500* Five renewable scholarships (full tuition and residence at shared-room rate) to top students from

Atlantic Scholars Awards Atlantic Canada with minimum average of 85% on required courses. (\$8,500 per year) Application deadline is March 15.

(Estimate of potential total value based on *Value of scholarships dependent on number of courses taken and whether residence portion projected costs of a 4-year program) is accepted. (Values given are based on 2005/2006 fees.)

\$16,000 Three Harrison McCain Scholarships are awarded to Canadian students entering first year of any (\$4,000 per year) program with minimum 80% average. Selected based on academic performance, financial need, recognized initiative in funding own education, and leadership qualities.

Application deadline is March 23.

\$2,500 Scholarships to all students admitted with averages in required courses of 90% or greater.**

No application required.

\$1,500 Scholarships to all students admitted with averages in required courses between 85% and 89%.**

No application required.

\$1,000 Scholarships to all students admitted with averages in required courses between 80% and 84%.**

No application required.

Scholarships from \$1,000 to \$5,000 to outstanding International students enrolling full-time in a program of study. See details on page 150.

**For scholarship purposes, averages are calculated to the nearest whole number.

Other Scholarships Ranging in Value from \$500 to \$2,000

Both application-based and non-application based scholarships, with various application deadlines, are selected and awarded in the fall. See details on the various entrance scholarships on the following pages.

Guaranteed Entrance Scholarships to NSAC

All Canadian students with averages* of 80% or greater will receive an entrance scholarship from NSAC. Scholarships are awarded based on the high school averages of the courses required for admission.

- \$2,500 Scholarships to all students admitted with averages of 90% or greater
- \$1,500 Scholarships to all students admitted with averages between 85% and 89.4%
- \$1,000 Scholarships to all students admitted with averages between 80% and 84.4%

*For Entrance Scholarship purposes the determining average is based on either:

1. the average of the required courses for admission to the respective program of study from first-term or final Grade 12 marks, or
2. the average of the final marks of the required courses for admission from first semester Grade 12 and the final marks of the remaining required courses from Grade 11.

Guaranteed Entrance Scholarship Eligibility:

- for high school students only
- must be entering full-time study
- automatic consideration
- no application is required
- tenable for one year
- students entering the first year of study in any undergraduate or technical program, with the following exception: students receiving Atlantic Scholars Awards or NSAC/CEC Entrance Scholarships.

Notes: For scholarship purposes, averages are calculated to the nearest whole number (if an average falls exactly between two whole numbers, the average is rounded up). Scholarships are awarded in two installments; to receive the second installment, full-time study must be maintained.

Atlantic Scholars Awards

NSAC annually awards five renewable entrance scholarships to students entering a full-time program of study either directly from high school or with no advanced standing from other post-secondary study. Atlantic Scholars Awards will provide tuition (for the respective program of study) and residence costs (at shared-room rate, for as long as the recipient chooses to live in residence). The scholarship does not cover meals, books, and student fees. In order to qualify for the value of the shared-room portion of room and board fees, the recipient must reside in residence for the full academic year, each year the scholarship is held. Students entering either technical or degree programs at the college are eligible. Only those applicants who have achieved a minimum average of 85% on the courses required for admission shall be considered. Selection criteria include academic performance (on courses required for admission), geographic distribution (in most years at least one student from each of the Atlantic Provinces will be awarded a scholarship), extracurricular activity, and a recommendation from an official representative (e.g. Guidance Counsellor) of the high school or other previously attended postsecondary educational institution. The Atlantic Scholars Awards are tenable for a maximum of four years. These scholarships are renewed by maintaining an annual average of 85%. See information on criteria for renewable scholarships in the Renewal Criteria section. Recipients of Atlantic Scholars Awards are not eligible to receive other guaranteed entrance scholarships. Recipients of renewed Atlantic Scholars Awards are also not eligible for internally selected In-Program scholarships. The Atlantic Scholars Awards are valued at approximately \$8,850 for the first year and have a potential total value over four years of \$35,500. The actual value is dependent on the number of courses taken and whether the residence portion is accepted. Applications must be submitted to NSAC Awards Office no later than March 15.

Atlantic Canada Bursaries

NSAC provides \$1,000 bursaries to assist students in need of financial assistance. To be eligible students must be in good standing, must have spent at least one term of full-time study at NSAC, and must be registered on a full-time basis for both semesters for the full academic year. Applications will be reviewed December 8.

Doug Bailey Memorial Bursary

Farmers Dairy awards a \$2,000 bursary to a student in any year of any program at NSAC who is a family member of a Farmers Dairy shareholder or employee. The bursary is named in memory of Doug Bailey, a former President and CEO. Selection criteria include leadership, extracurricular and community activities, financial need, and a sound academic record. Applications must be submitted to the NSAC Awards Office no later than October 5.

Bible Hill Garden Club Bursary

The \$250 Bible Hill Garden Club Bursary is awarded to an NSAC student from the Truro area. Preference is given to students in at least the second year of study in Horticulture, preferably Environmental Horticulture. Selection criteria include academic performance and financial need. Applications must be submitted to the NSAC Awards Office by September 22.

Canadian Association of Agri-Retailers Bursary

The \$1,000 Canadian Association of Agri-Retailers Bursary is awarded annually to an NSAC student in any year of any program whose course work, summer employment, home background, and career plans reflect an interest in Agronomy and the Crop Input industry. Selection criteria will include interest and involvement in Agronomy/field crops and the crop input industry and financial need. Applications must be submitted to the NSAC Awards office no later than September 20.

Canard Conservation Undergraduate Scholarship

The \$500 Canard Conservation Undergraduate Scholarship is awarded to a first- or second-year B.Sc.(Agr.) student from Kings County, NS, who is planning course and/or project work related to the environment. Selection criteria include: academic performance, demonstrated interest in the environment, and career plans. Applications must be submitted to the NSAC Awards Office no later than May 15.

Randy Carey Memorial Scholarship

A \$1,000 scholarship is awarded annually to a student from the Annapolis Valley entering a degree/diploma program at NSAC who is interested in pursuing a career in agriculture. As a memorial to Randy Carey, who worked for Stirling Fruit Farms for much of his career, preference will be given to students with interests in the Horticulture industry. Selection criteria include farm background, career plans, and academic performance. Applications must be submitted to the NSAC Awards Office by May 15.

Chicken Producers of Nova Scotia Bursary

The \$1,000 Chicken Producers of Nova Scotia bursary is awarded to an NS student at NSAC who shows a demonstrated interest in pursuing the study of poultry. Preference will be given to applicants with a farming background. Students in all years of study are eligible. A student may not receive this scholarship more than once. Applications must be submitted to the NSAC Awards Office no later than September 20.

George & Lottie Cook Memorial Scholarship

The \$500 George and Lottie Cook Memorial Scholarship is awarded annually to an NS student enrolled in the first or second year of any program of study at NSAC. Selection criteria include academic performance and financial need. Applications must be submitted to the NSAC Awards Office no later than September 20.

Co-op Atlantic Bursaries

Co-op Atlantic offers three \$500 bursaries to students entering the technical program. Selection is based on financial need, potential for community leadership and/or co-operative endeavour, and the recommendation of a local co-operative or district Federation of Agriculture. These bursaries are renewable for a second year when the recipient forwards to the donor first-year marks and confirmation of enrollment. Applications must be submitted to the NSAC Awards Office no later than September 29.

Dykeview Farms Ltd. Scholarship

Dykeview Farms Ltd. offers a \$1,000 scholarship open to students from Northeast Kings Education Centre. Selection is based on financial need, community involvement and academic performance. Contact NEKEC Guidance Office or NSAC Awards Office for application instructions. Application deadline is May 2.

Great Village Garden Club Bursary

The \$250 Great Village Garden Club Bursary is awarded to a student in any year of any program who has not qualified for other scholarships or awards. No application is necessary.

Kings County Federation of Agriculture Bursary

The \$500 Kings County Federation of Agriculture Bursary is awarded to a resident of Kings County, NS, entering the first year of full-time study at NSAC. Selection criteria include financial need, academic performance, and contribution to and participation in the agricultural industry of Kings County. The selection will be made by the donor. Applications are available from and must be received by May 30th at:

Kings County Federation of Agriculture, Box 14, Kentville, NS B4N 3V9

Kings Mutual Insurance Scholarship

In memory of Past Directors, the Kings Mutual Insurance Company awards three \$1,000 scholarships to NS students, in any year of any program of study, at NSAC. At least one of the scholarships annually will be available to a student in a Technical program of study. Selection criteria include: financial need, academic performance, and demonstrated interest in a career in the Agri-food industry as reflected by summer employment and/or extracurricular involvement. This scholarship is not available to students receiving other scholarships totalling \$1,000 or more. Applications must be submitted to the NSAC Awards Office no later than October 5.

Harrison McCain Scholarship

Valued at \$16,000 over four years, or \$8,000 over two years for students entering two-year programs of study (\$4,000 per year), three Harrison McCain Scholarships will be awarded to three students entering the first year of any program of study at NSAC. This scholarship is open to Canadian high school graduates who are maintaining an 80% average in their senior year of high school. Selection is based on academic performance, financial need, leadership qualities, and a recognized initiative in funding their own education. The scholarship is renewed based on the recipient maintaining full-time study (at least four courses per semester) and carrying an academic average of 60% in year one, 70% in year two, and 75% in year three. The Harrison McCain Scholarship is tenable at NSAC for a maximum of four years of study and is not transferable. Applications are due at the NSAC Awards Office no later than March 1.

Newfoundland and Labrador Federation of Agriculture Scholarships

To encourage local students to pursue careers in the Agri-products industry, the Newfoundland and Labrador Federation of Agriculture awards two \$1,000 scholarships to Newfoundland and Labrador students (preferably one from the East Coast and one from the West Coast) entering studies at the NSAC. Selection criteria include academic performance and financial need. Applications must be submitted to the NSAC Awards Office no later than September 20.

Newfoundland and Labrador Provincial Scholarships

The Newfoundland and Labrador government, through its Department of Education, awards three scholarships of \$1,000 each to Newfoundland and Labrador students entering a degree program at NSAC. Selection will be based on academic performance. No application is required.

NSAC Entrance Scholarships to Cobequid Educational Centre Students

The Nova Scotia Agricultural College Entrance Scholarship for students from the Cobequid Educational Centre will cover the full first-year tuition for the technical or degree program which the student has chosen. The first-year value of the scholarship is approximately \$5,300 for degree students and \$3,925 for technical students. Eligibility: The top three students graduating from CEC and entering the first year of study in any NSAC program will be awarded the NSAC Entrance Scholarships for CEC Students. Selection will be based on the average from the required courses combined with the school's final rankings. A minimum average of 80% in the courses required for admission will be required. Renewability: The NSAC Entrance Scholarships for CEC Students will be renewed at the value of \$1,500 per year. To be eligible for renewal the student must maintain an 80% average at NSAC and satisfy the criteria for scholarship renewal. Presentation: The NSAC Entrance Scholarships for CEC Students will be announced at CEC's graduation and will be formally presented at NSAC's Autumn Assembly in October.

*In the case where one of the top three students from the Cobequid Educational Centre entering studies at the Nova Scotia Agricultural College receives an Atlantic Scholars Award, that student would not be eligible to receive the NSAC Entrance Scholarships for CEC Students. The scholarship would then be awarded to the student with the next highest average coming from the Cobequid Educational Centre. Recipients of NSAC Entrance Scholarships for CEC students are not eligible also to receive one of the guaranteed entrance scholarships.

Nova Scotia Agricultural College Alumni Association Scholarships

The NSAC Alumni Association awards two \$1,000 scholarships to first-year students. Selection will be based on academic performance. No application is required.

Nova Scotia Federation of Agriculture 100th Anniversary Scholarship

In recognition of the 100th Anniversary of the Nova Scotia Federation of Agriculture in 1995, a \$1,000 scholarship is awarded to an NS student with a farm background who has a solid academic record and financial need. Students studying in any year of any program who have not qualified for other significant awards are eligible. Applications must be submitted to the NSAC Awards Office no later than September 20.

Nova Scotia Power Inc. University Scholarship

The \$1,500 Nova Scotia Power Inc. university entrance scholarship is awarded to an NS student entering on a full-time basis the first year of an undergraduate degree program at NSAC. The scholarship is tenable for up to four years (renewed by maintaining an 80% average in the previous year; other criteria may be considered for renewal). Selection criteria include academic performance and demonstrated involvement in extracurricular activities. Applications must be submitted to the NSAC Awards Office no later than September 20.

Nova Scotia Veterinary Medical Association Bursary

The \$500 Nova Scotia Veterinary Medical Association Bursary will be awarded to an NS student in the first year of the Veterinary Technology program. Selection criteria include financial need and academic performance. Applications must be submitted to the NSAC Awards Office no later than September 20.

Prince Edward Island Institute of Agrologists Scholarship

The \$500 PEIIA Scholarship is awarded to a PEI student entering the B.Sc.(Agr.) program. Selection criteria include academic performance, school and community involvement, and financial need. Applications must be submitted to the NSAC Awards Office no later than September 20.

RBC Centennial Entrance Scholarship

In recognition of NSAC's 100th anniversary in 2005, RBC Financial Group has established a \$1,000 entrance scholarship to be awarded annually to a student entering any program at NSAC who has not qualified for the Guaranteed Entrance Scholarships available to students coming directly from high school. Students considered for this scholarship would include students with disabilities, mature students, and transfer students. Selection criteria include academic performance, involvement in extracurricular and community activities, and career plans. Applications must be submitted to the NSAC Awards Office no later than September 20.

RBC Financial Group Entrance Scholarship

RBC Financial Group, through the RBC Foundation, is sponsoring a \$1,000 Entrance Scholarship to be awarded to a student from a farm family entering the first year of the B.Sc.(Agr.) program at NSAC. Selection criteria include academic performance, extracurricular involvement, and career goals. Secondary consideration may also be given to geographic location. Applications must be submitted to the NSAC Awards Office no later than May 19.

Ted Rose Memorial Bursary

The \$500 Ted Rose Memorial Bursary will be awarded to a student who plans to operate a livestock farm eventually. Selection criteria include a documented commitment to animal welfare, financial need, and sound academic performance. Applications must be submitted to the NSAC Awards Office by October 5.

Scholarships for International Students

Scholarships from \$1,000 to \$5,000 will be awarded to selected International students enrolled for the full year in a program of study at NSAC. The maximum award will be half the tuition for the year of study. All students paying the International tuition differential are eligible for consideration. The awards are merit-based and normally require registration in 80% of the normal course load for the program of study in both the previous and current year of study. Entrance scholarships will be awarded to outstanding applicants who have a minimum of 80% or equivalent admission average on the courses required for admission. The number and value of awards will be dependent on the number of International students eligible for consideration. No application is required.

School Milk Foundation of Newfoundland & Labrador Scholarships

Two \$1,000 scholarships are sponsored by the School Milk Foundation of Newfoundland and Labrador for students from that province entering or continuing in any program of study at NSAC. Preference will be given to students beginning a program of study at NSAC. Selection criteria include career plans that illustrate a genuine interest in an area of agriculture, outstanding community leadership, and academic performance. Applications must be submitted to the NSAC Awards Office no later than May 10.

Sport Leadership Award

The \$1,000 Sport Leadership Award recognizes a high school varsity athlete enrolling full-time in a program of study and planning to participate in a sport at the varsity level at NSAC. Applicants must be maintaining a minimum 75% average in the courses required for admission to NSAC to be eligible. Recipients of other major entrance scholarships are not eligible. Selection criteria include financial need, sport skills, and leadership. The Sport Leadership Award may be renewable up to a maximum of three times conditional on the recommendation of the varsity coach(es) in the sport(s) of participation, provided the student has maintained a minimum yearly average (65% after year one, 70% after year two, and 75% after year three) in full-time course study (80% of normal load) and has continued to play at least one NSAC varsity sport. Applications, accompanied by two letters of reference (including one from a high school coach

to comment on excellent sport skills, athletic ability, team leadership, coachability, and positive attitude) and a resumé, must be submitted to the NSAC Awards Office by March 16.

Stewiacke Valley Garden Club Bursary

The \$250 Stewiacke Valley Garden Club Bursary is awarded to a student from the Stewiacke Valley area of Nova Scotia studying at NSAC. Selection criteria include involvement in extracurricular and community affairs, financial need, and academic performance. Applications must be submitted to the NSAC Awards Office by September 20.

Taste of Nova Scotia Quality Food Program Scholarship

The Taste of Nova Scotia Quality Food Program offers a \$1,000 scholarship to an NS student in any year of any program at NSAC whose course, project work, summer employment, and career plans reflect a commitment to rural communities. Selection criteria include interests in rural entrepreneurship and/or rural development as reflected through course and project work; and financial need. Applications must be submitted to the Awards Office no later than October 5.

F. W. Walsh Memorial Scholarship

In memory of the outstanding agriculturalist F. Waldo Walsh, this \$500 scholarship is awarded to a student who is admitted to the first year of a degree program at NSAC. Selection is based primarily on academic performance. Financial need and participation in school and community affairs will also be considered. Applications must be submitted to the NSAC Awards Office no later than September 20.

Wentworth Valley Garden Club Bursary

The \$250 Wentworth Valley Garden Club Bursary is awarded to a student from the Colchester or Cumberland County area of Nova Scotia studying in a program related to Horticulture at NSAC. Selection will be based primarily on financial need with sound academic performance secondary. Applications must be submitted to the NSAC Awards Office by September 22.

Woodside Memorial Scholarships

In memory of Harold and Mary Woodside, formerly of Alderbrook Farm, Margate, PEI, a \$500 scholarship is awarded to a first-year student from PEI. Selection criteria include academic performance, financial need, future plans and career ambitions, and participation in sports, school, and community activities. Applications must be submitted no later than September 30.

II. CONTINUATION SCHOLARSHIPS AND BURSARIES

The following scholarships and bursaries are available exclusively to students returning to studies beyond the first year of the various programs at the Nova Scotia Agricultural College. Students are encouraged as well to check the scholarship listings in Section VII (Other Continuing External Scholarships and Bursaries).

Animal Nutrition Association of Canada (Atlantic Division) Scholarship

The Atlantic Division of the Animal Nutrition Association of Canada (formerly known as the Canadian Feed Industry Association) awards a \$700 scholarship to a student who is entering the third year of the B.Sc.(Agr.) program. Selection criteria include academic performance and leadership in student and community affairs. This scholarship is not available to students receiving other scholarships of higher value. No application is required.

Ralph H. Armstrong Memorial Bursary

The family and friends of the late Ralph Hallett Armstrong award a memorial bursary of \$500 to a student who has successfully completed at least one year of study at NSAC. Former or current

4-H club members from Kings or Annapolis Counties in Nova Scotia are eligible to apply. Selection is based on financial need and involvement in school, athletic, and/or community organizations. Applications must be submitted to the NSAC Awards Office no later than September 22.

Atlantic Canada Bursaries

NSAC provides \$1,000 bursaries to assist students in need of financial assistance. To be eligible, students must be in good standing and will have spent at least one term of full-time study at NSAC and be registered on a full-time basis for both semesters for the full academic year. Applications will be reviewed December 8.

Atlantic Council of Crop Life Canada Bursaries

Two \$500 bursaries will be awarded to technical students from agricultural backgrounds who plan to pursue employment in the agricultural sector following studies at NSAC. Preference will be given to students whose backgrounds, course and project work, summer employment, and career plans reflect an interest in the crop protection industry. The Atlantic Council of Crop Life Canada is the organization of distributors, dealers, and suppliers of crop protection products in Atlantic Canada. As part of the application, students will write a brief essay (maximum of 500 words) on their background and their future plans, and how their course of study is serving to prepare them for a future in the industry. Applications must be submitted to NSAC Awards Office no later than September 29.

Atlantic Farm Mechanization Show Undergraduate Scholarships

The Atlantic Farm Mechanization Show awards two \$1,000 scholarships to students from the Atlantic Provinces who have completed at least one year of study at NSAC in the Engineering Diploma program or the Bio-Environmental Systems Management option of the B.Sc.(Agr.) program. The awarding of the scholarship is based on academic performance and the demonstrated potential for a career in the area of mechanization of agriculture. No application is required.

Atlantic Fertilizer Institute Bursary

The Atlantic Fertilizer Institute awards a \$500 bursary to a second-year technical student. Selection criteria include farm interests, leadership qualities within the college community, and academic performance. Applications should be submitted to the NSAC Awards Office no later than September 22.

Atlantic Fertilizer Institute Scholarship

The Atlantic Fertilizer Institute awards a \$1,000 scholarship to a student from the Atlantic Provinces who is entering the second year of the B.Sc.(Agr.) program. Preference will be given to students with farming interests who are studying in an option relating to the production of crops. Selection criteria include academic performance, participation in student life, contribution to the college community, and financial need. Applications must be submitted to the NSAC Awards Office no later than September 22.

Atlantic Land Improvement Contractors Association Bursary

The Atlantic Land Improvement Contractors Association Bursary of \$800 is available to Engineering degree students with a demonstrated ability and interest in soil, water, and land improvement. No application is required.

Atlantic Provinces Hatchery Federation Bursary

The Atlantic Provinces Hatchery Federation awards a \$500 bursary to a student from the Atlantic Provinces who is enrolled in subjects that reflect an interest in poultry. A letter of

application must be received by September 29 at the following address: Gerry Kennie, President, Atlantic Provinces Hatchery Federation, 43 Minas Warehouse Road, Suite 3, New Minas, NS B4N 5A5

Doug Bailey Memorial Bursary

Farmers Dairy awards a \$2,000 bursary to a student in any year of any program at NSAC who is a family member of a Farmers Dairy shareholder or employee. The bursary is named in memory of Doug Bailey, a former President and CEO. Selection criteria include leadership, extracurricular and community activities, financial need, and a sound academic record. Applications must be submitted to the NSAC Awards Office no later than October 5.

A.B. Banks Memorial Scholarship

The \$600 A.B. Banks Memorial Scholarship is awarded to the second-year B.Sc.(Agr.) student enrolled in the Animal Science option with the highest average from the first year of study. No application is required.

Bible Hill Garden Club Bursary

The \$250 Bible Hill Garden Club Bursary is awarded to an NSAC student from the Truro area. Preference is given to students in at least the second year of study in Horticulture, preferably Environmental Horticulture. Selection criteria include academic performance and financial need. Applications must be submitted to the NSAC Awards Office by September 22.

David W. Brown Memorial Bursary

The ACA Co-operative Limited awards two \$500 bursaries to students entering a second year of study at NSAC. Selection criteria include financial need, academic performance, and interest in farming and in the poultry industry in particular. Applications must be submitted to the NSAC Awards Office no later than September 22.

Heather Butcher Memorial Bursary

In memory of Heather Butcher, friends have established a bursary fund which will provide a \$300 bursary to a student who has completed at least one year in a degree program at NSAC. Selection criteria include leadership and participation in student and community affairs, financial need, and academic performance. Applications must be submitted to NSAC Awards Office no later than October 5.

Merle Cail Memorial Scholarship

The \$1,000 Merle Cail Memorial Scholarship is awarded annually to a senior undergraduate student or a graduate student at NSAC whose course or project work reflect an interest in organic agriculture. Selection criteria include academic performance, financial need, and commitment to organic agriculture. Application forms accompanied by one letter of recommendation must be submitted to the NSAC Awards Office no later than September 20.

Canada Millennium Scholarship Foundation's National In-Course Awards

The Canada Millennium Scholarship Foundation's national in-course awards program will provide a minimum of a \$4,000 scholarship to a student at NSAC who has either completed one year of a technical program or two years of a degree program. Selection criteria will include academic achievement, leadership, and commitment to community service. The student selected from NSAC will also be considered for renewable awards of \$4,000 and \$5,000 on a national basis. See the website or the NSAC Awards Office for further details. Application deadline is June 15.

www.millenniumscholarships.ca

Canadian Association of Agri-Retailers Bursary

The \$1,000 Canadian Association of Agri-Retailers Bursary is awarded annually to an NSAC student in any year of any program whose course work, summer employment, home background, and career plans reflect an interest in Agronomy and the Crop Input industry. Selection criteria will include interest and involvement in Agronomy/field crops and the crop input industry, and financial need. Applications must be submitted to the NSAC Awards office no later than September 20.

Canard Conservation Undergraduate Scholarship

The \$500 Canard Conservation Undergraduate Scholarship is awarded to a first- or second-year B.Sc.(Agr.) student from Kings County, NS, who is planning course and/or project work related to the environment. Selection criteria include academic performance, demonstrated interest in the environment, and career plans. Applications must be submitted to the NSAC Awards Office no later than May 15.

Gerard Chiasson Memorial Bursary

The Inverness County Federation of Agriculture awards a \$500 bursary to a Cape Breton student who has completed at least one year of study at NSAC. The bursary is awarded in memory of Gerard Chiasson, a past president of the NS Federation of Agriculture who was also active in other local farm and community organizations. Selection criteria include financial need, involvement in community activities, and leadership experience. In the event that two or more students possess otherwise equal qualifications, preference will be given to a student from Inverness County. Applications must be submitted to the NSAC Awards Office no later than September 29.

Chartwells Scholarships

Compass Group Canada awards \$4,000 in scholarships to outstanding students with high academic performance who, for one reason or another, have not qualified for other significant awards. Preference will be given to students living in residence. No application is required.

Chicken Producers of Nova Scotia Bursary

The \$1,000 Chicken Producers of Nova Scotia bursary is awarded to an NS student at NSAC who shows a demonstrated interest in pursuing the study of poultry. Preference will be given to applicants with a farming background. Students in all years of study are eligible. A student may not receive this award more than once. Applications must be submitted to the NSAC Awards Office no later than Sept 22.

Class of 1950 Bursary Fund

The Class of 1950, in commemoration of their fiftieth anniversary of graduation from NSAC, provide an annual \$1,000 bursary to assist NSAC students in financial need. Applications must be submitted to the Awards Office by September 20.

Donald E. Clark Memorial Scholarship

In memory of Donald E. Clark, former Professor and Head of the Engineering Department, one or more scholarships (with total value of \$600) are awarded to final-year students in the Engineering Department. Selection criteria include academic performance, interest, and aptitude in the engineering field. No application is required.

Colonel Charles Coll Memorial Scholarship

In memory of Colonel Charles H. Coll, a \$250 scholarship is awarded to a student in the final year of an Animal Science option. Selection criteria include academic performance, involvement and interest in poultry, and achievement and contribution to 4-H. No application is required.

Charles M. Collins Memorial Scholarship

A \$1,000 scholarship will be awarded annually to a student at NSAC who is enrolled in a program of study relating to Horticulture. The scholarship is in memory of Charles McKittrick Collins, who taught Horticulture at NSAC for twenty-five years and supervised the landscaping and maintenance of the campus grounds, and for whom the Collins Horticultural Building was named in 1975. Preference will be given to students studying in the Bachelor of Technology program in Environmental Horticulture who have not qualified for other significant awards. No application is required.

George & Lottie Cook Memorial Scholarship

The \$500 George and Lottie Cook Memorial Scholarship is awarded annually to an NS student enrolled in the first or second year of any program of study at NSAC. Selection criteria include academic performance and financial need. Applications must be submitted to the NSAC Awards Office no later than Sept 20.

Co-op Atlantic Scholarship

Co-op Atlantic awards a \$1,000 scholarship to a student at NSAC who is from the Atlantic Provinces and is entering the third year of a degree program. Selection criteria include academic performance, financial need, and knowledge and appreciation of co-operatives. The award is tenable for two years. Applications must be submitted to the NSAC Awards Office no later than September 29.

The Renée Covill Scholarships

Five \$2,500 scholarship will be awarded to Atlantic Canadian students at NSAC studying in a program leading to a Bachelor's degree with a major in Plant Science (Agronomy or Horticulture) or Environmental Horticulture. Preference will be given to students who have course and project work that reflect a commitment to environmental issues and career interests in growing plants (including farming). Selection criteria are academic performance, financial need, and career plans. Applications must be submitted to the NSAC Awards Office by September 20.

Dorothy Creelman Cox Memorial Scholarship

A \$150 scholarship is awarded to a female student entering the second year of the B.Sc.(Agr.) program in the Plant Science option. Selection is based on academic performance in the first year. No application is required.

Dr. Kenneth Cox Memorial Scholarship

In memory of Dr. Kenneth Cox, former Principal, this \$100 scholarship is awarded to a student entering the final year of the B.Sc.(Agr.) program. Application is not required.

Dairy Farmers of Nova Scotia Bursary

The Dairy Farmers of Nova Scotia awards a \$1,000 bursary to an NS student doing project or course work related to the dairy industry. Students in the third or fourth year of the B.Sc.(Agr.) program (any option) or graduate students undertaking course or project work related to the dairy industry are eligible. Selection criteria include proven interest and experience in the dairy industry, the potential beneficial impact of study on the Nova Scotia dairy industry, and academic performance. Applications must be submitted to the NSAC Awards Office no later than September 29.

Dartmouth Horticultural Society Bursary

The \$500 Dartmouth Horticultural Society Bursary is awarded to a student in the final year of studies at NSAC. Selection criteria include financial need, interest and experience in the agri-food industry, and academic performance. Although students in all programs are eligible,

preference will be given to a student in a Plant Science/Environmental Horticulture program from the Dartmouth area. Applications must be submitted to the NSAC Awards Office by September 22.

Eastern Veterinary Technicians Association Bursary

The Eastern Veterinary Technicians Association awards a \$100 bursary and a stethoscope (value \$100) to a third-year student in the Animal Health Technology program. This bursary will be awarded to the student who best demonstrates proficiency in veterinary clinical skills during the second year and externship at the Atlantic Veterinary College. No application is required.

Ernest L. Eaton Memorial Scholarships

Two \$500 scholarships, one for a male and one for a female, are awarded to non-Nova Scotian students entering the third year of the B.Sc.(Agr.) program. Selection is based on the student's averages in the second year of their program. No application is required.

Egg Producers of Newfoundland & Labrador Scholarship

The Egg Producers Association of Newfoundland and Labrador (formerly known as the Newfoundland Egg Marketing Board) awards a \$1,000 scholarship to an NL student entering the third or fourth year of the B.Sc.(Agr.) program. Applications must be submitted to the NSAC Awards Office no later than September 29.

Farm Credit Canada Scholarship

The Atlantic Region of Farm Credit Canada awards a \$1,000 scholarship to a Canadian student entering the fourth or final year of the B.Sc.(Agr.) program in the Agricultural Economics or Agricultural Business options. Selection criteria include academic performance, interest and competence in farm management and in the subjects associated with the economics of the farm business, interest and involvement in college and home community as demonstrated by participation in organizations & affairs, farm experience, and financial need. Application is not required.

Farm Focus Bursary

The \$200 Farm Focus Bursary is awarded to a student entering the second year of study. Selection is based on financial need and academic performance. No application is required.

Ena Fenton Memorial Scholarship

Sponsored by the Bedford Horticultural Society, the \$500 Ena Fenton Memorial Scholarship is awarded to a second-year student from the Bedford-Sackville-Waverley district of NS, studying Horticulture or Environmental Studies at NSAC. In years when no student from Bedford, Sackville, Waverley applies for the scholarship, consideration will be given to other students from HRM (excluding Halifax and Dartmouth). Selection will be based on financial need, career plans, and academic performance. Applications must be submitted to the NSAC Awards Office by September 20.

Great Village Garden Club Bursary

The \$250 Great Village Garden Club Bursary is awarded to a student in any year of any program who has not qualified for other scholarships or awards. No application is required.

Chuck Harrison Memorial Bursary

In memory of Chuck Harrison, Class of 1970, a \$200 bursary is awarded to a final-year Agricultural Business Technician student. Selection criteria include leadership and involvement in athletic and other activities at NSAC, and a sound academic record. No application is required.

Bonnie R. Haviland Memorial Bursary

The \$1,000 Bonnie R. Haviland Memorial Bursary will be awarded annually to a student entering the third year of the Animal Health Technology program whose performance in the program has demonstrated a caring attitude and a commitment to others. To be eligible, students must have done well in their first two years and not won other scholarships of greater value. No application is required.

Isgonish Chapter Silver Anniversary IODE Bursary

The \$400 Isgonish Chapter Silver Anniversary IODE Bursary is awarded to a student entering the third year of the B.Sc.(Agr.) program in the Aquaculture major. Selection criteria include financial need, academic performance, and participation and leadership in extracurricular activities. The bursary is renewable by maintaining an 80% average. One award will be presented either to a third-year student or to a fourth-year student as a renewal to the previous year's recipient. Applications must be submitted to the NSAC Awards Office by September 22.

Randy & Gladys Keddy Memorial Bursary

The \$1,000 Randy & Gladys Keddy Memorial Bursary will be awarded to a second-year Technical or third-year Degree student whose background, program of study, course and project work, and summer employment show a genuine interest in working in the agricultural industry following graduation. Selection criteria include career goals, solid academic performance, and financial need. Students receiving other scholarships valued at \$1,000 or greater will not be eligible for this scholarship. Given similar or equal qualifications of candidates, preference will be given to students from the Annapolis Valley of Nova Scotia with farm backgrounds. Applications are due at the NSAC Awards Office by September 20.

Kings Mutual Insurance Scholarships

In memory of Past Directors, the Kings Mutual Insurance Company awards three \$1,000 scholarships to NS students, in any year of any program of study at NSAC. At least one scholarship will be awarded to a technical student. Selection criteria include financial need, academic performance, and demonstrated interest in a career in the Agri-food industry as reflected by summer employment and/or extracurricular involvement. This scholarship is not available to students receiving other scholarships totalling \$1,000 or more. Applications must be submitted to the NSAC Awards Office no later than October 5.

Landscape Nova Scotia Bursary

Landscape Nova Scotia awards a \$500 bursary to an NS student studying Environmental Horticulture. Selection criteria include academic performance and financial need. No application is required.

Lunenburg/Queens Federation of Agriculture Scholarship

The Lunenburg/Queens Federation of Agriculture Scholarship of \$300 is awarded to a student from Lunenburg or Queens Counties in NS who has completed at least one year of study at NSAC. Selection criteria include academic performance, farm or agricultural background or experience, and plans to pursue a career in the agricultural industry. Applications must be submitted to the NSAC Awards Office no later than September 29.

Angus and Tena MacLellan Memorial Scholarship

This \$600 scholarship is awarded to a student entering the third or fourth year of a degree program. Angus and Tena MacLellan farmed in Cloverville, Antigonish County, Nova Scotia. No application is required.

Dr. Herbert F. MacRae Memorial NSAC/Macdonald College Exchange Award

This \$1,000 award is designed to support student and staff exchange between NSAC and Macdonald College of McGill University. Students considering a semester or a year of study at Macdonald College as part of the requirements of a program of study at NSAC, or students transferring to a program of study at Macdonald College, should inquire at the Awards Office for details.

Joseph E. Mapplebeck Memorial Bursaries

In honour of Joseph E. Mapplebeck, who farmed for 50 years in Kings County, NS, and in recognition of his appreciation for the importance of a good education, family members have established two \$500 bursaries to be made available to technical students at NSAC. Eligible candidates will have successfully completed the first year of a technical program and demonstrate financial need. A letter of recommendation from a Faculty member must accompany this application. At least one of the two awards will be made available annually to a student in the Plant Science Technology program. Applications must be submitted to the NSAC Awards Office no later than September 22.

H.A.L. McLaughlin Memorial Scholarship

In memory of H.A.L. McLaughlin, who taught horticulture at the NSAC from 1953 to 1971, this \$300 scholarship is awarded to a student in Horticulture. No application is required.

A.C. Neish Memorial Trust Scholarship

The A.C. Neish Memorial Trust awards a \$1,700 scholarship to an NSAC student entering the final year of the B.Sc.(Agr.) program. Selection criteria include outstanding academic performance and qualities of leadership as indicated by participation and achievement in both academic and non-academic activities. Applications must be submitted to the NSAC Awards Office no later than September 29.

NSAC Athletic Bursaries

Five awards will be presented to returning student athletes at NSAC. Selection criteria include financial need, involvement in/member of a college varsity team, recommendation from a coach, and satisfactory academic performance. Applications must be submitted to the NSAC Awards Office no later than October 5.

Nova Scotia Animal Breeders Co-operative Limited Scholarship

The Nova Scotia Animal Breeders Co-op awards four \$1,250 scholarships (two to degree students and two to technical students) to returning NS students studying in an animal-related program whose home farm backgrounds, course and project work, and career interests reflect an interest in the dairy or beef industry. To be eligible, students will not have received other major scholarships. Applications must be submitted to the NSAC Awards Office no later than October 5.

Nova Scotia Federation of Agriculture Bursaries

The Nova Scotia Federation of Agriculture awards two \$300 bursaries to second-year NS students (one technical and one degree). Selection criteria include financial need and academic performance. No application is required.

Nova Scotia Federation of Agriculture 100th Anniversary Scholarship

In recognition of the 100th Anniversary of the Nova Scotia Federation of Agriculture in 1995, a \$1,000 scholarship is awarded to an NS student with a farm background who has a solid academic record and financial need. Students studying in any year of any program who have not

qualified for other significant awards are eligible. Applications must be submitted to NSAC Awards Office no later than October 5.

Nova Scotia 4-H Council Award

A \$200 scholarship will be awarded to a second-year NS student in any program. Selection criteria include academic performance, financial need, and participation in 4-H club activities. Applications must be submitted to the NSAC Awards Office no later than September 22.

Nova Scotia Institute of Agrologists Scholarship

The \$1,000 NSIA Scholarship is awarded to an NS student entering the third year of the B.Sc.(Agr.) program at NSAC. In awarding the scholarship, the selection committee will take into consideration academic performance, participation in school and community activities, degree of interest in agrology and pursuing a career in the agri-food industry, and financial need. Applications must be submitted to the NSAC Awards Office no later than September 20.

Nova Scotia Institute of Agrologists 50th Anniversary Scholarship

In recognition of the 50th anniversary of the Nova Scotia Institute of Agrologists in 2003, a \$1,000 scholarship will be awarded to an NS student entering the second, third or fourth year of the B.Sc.(Agr.) program at NSAC. Selection criteria include academic performance, extracurricular activities, and interest in the profession of agrology as demonstrated through career plans. Applications must be submitted to the NSAC Awards Office no later than September 20.

NSERC Undergraduate Student Research Awards (USRA)

The Natural Sciences and Engineering Research Council of Canada sponsors a program of summer research awards to encourage outstanding undergraduate students to undertake graduate studies and pursue research careers in the natural sciences and engineering disciplines at NSAC. The purpose of the award is to supplement the salary of a summer student who is working on an individual research project, designed in conjunction with a faculty member who holds an NSERC research grant. The award is for a minimum of sixteen weeks on a full-time basis in research and development in natural sciences and engineering. To be eligible, students must be Canadian citizens or permanent residents, registered full-time as undergraduate students in a natural science or engineering discipline, and have completed at least one year of study with a minimum 70% cumulative average. Applications must be submitted to the Office of Graduate Studies and Research by February 17.

Don Palfrey Memorial Scholarship

A \$1,000 Don Palfrey Memorial Scholarship will be awarded annually in recognition of the many years of service and contributions to weed science in Nova Scotia by Don Palfrey. The scholarship will be awarded to an undergraduate student who is carrying out a senior-year research project in the area of pest management, with preference given to students involved in weed science, either through academic work or summer employment. Applications are due at the NSAC Awards Office no later than September 22.

Robert Parent Memorial Scholarship

In memory of Robert Parent, Class of 1921, this \$1,000 scholarship will be awarded to an outstanding student studying in any year of any program who has not qualified for other significant awards. No application is required.

Pork Nova Scotia Prize

Pork Nova Scotia sponsors a \$350 prize to an NS student with an interest and/or background in swine production. Selection criteria include demonstrated interest in the swine industry

(through course or project work), academic performance, and financial need. Applications should be submitted to the NSAC Awards Office no later than September 29.

Prajna Athletic Bursaries

Two \$200 awards (one to a male student and one to a female student) will be presented to returning students at NSAC. These awards were established by Dr. Andre Lirette, a former Professor in the former Animal Science Department at NSAC. To be eligible, students must maintain sound academic performance and have been involved in either a varsity team or on an intramural/recreational team at NSAC. Selection criteria include financial need, leadership, and contribution to student life. Applications must be submitted to the NSAC Awards Office no later than October 5.

PEI Swine Breeders' Association Bursary

The PEI Swine Breeders' Association provides a \$500 bursary to a PEI student who has successfully completed at least one year of study in an animal-related program at NSAC. Selection criteria include financial need, demonstrated interest in swine, and involvement in community, 4-H, and student affairs. A student may not receive this bursary more than once. Applications must be submitted to the NSAC Awards Office no later than September 29.

Stuart Rath Junior A Bearcat Hockey Education Award Fund

Awards ranging from \$250 to \$500 per course are available to members of the Truro Junior A Bearcats Hockey Club who are studying at NSAC. Selection is based on academic performance, community service, and the recommendation of the team coaches. Students in second semester and second year must successfully complete the course work in the previous semester to be eligible for continued support. No application is required.

Cliff Retson Memorial Bursary

In memory of Cliff Retson, Class of '34, a \$600 bursary is awarded to an International student studying at NSAC. Students in any year of any program are eligible. Selection criteria include financial need, academic performance, and interest in and involvement in multicultural activities on campus. Applications must be submitted to the NSAC Awards Office no later than September 29.

Ira L. Rhodenizer Memorial Scholarship

In memory of Ira L. Rhodenizer, the Nova Scotia Federation of Agriculture awards a \$300 scholarship to a second-year NS student. Selection criteria include academic performance, involvement in student affairs, and participation in the 4-H program. Applications must be submitted to the NSAC Awards Office no later than September 22.

Dr. Robert G. Rix Bursary

This bursary of \$300 is awarded to a deserving student. No application is required.

J. Arnold Roberts Memorial Scholarship

In memory of J. Arnold Roberts, a \$750 scholarship will be awarded to an outstanding student from Atlantic Canada studying in any year of any program who has not received scholarships of greater value. No application is required.

Howard W. Roper Memorial Bursary

In memory of Howard W. Roper, a \$500 bursary will be awarded annually by the Nova Scotia/Newfoundland Branch of Holstein Canada to a second-year Technical student at NSAC. Applicants must be residents of Nova Scotia or Newfoundland and Labrador and members of Holstein Canada, or members of families with Holstein Canada membership. Selection criteria

include involvement in the dairy industry, extracurricular involvement through athletics and clubs on campus, involvement in farm organizations, financial need, and satisfactory academic performance in the first year of study at NSAC. Applications must be submitted to the NSAC Awards Office no later than September 29.

Ted Rose Memorial Bursary

The \$500 Ted Rose Memorial Bursary will be awarded to a student who plans to operate a livestock farm eventually. Selection criteria include financial need, sound academic performance, and a documented commitment to animal welfare. Applications must be submitted to the NSAC Awards Office by October 5.

Rotary Club of Truro International Student Bursary

This \$1,000 bursary will be awarded annually by the Rotary Club of Truro to an International student studying at NSAC. All undergraduate and graduate students paying the international tuition differential are eligible for consideration. Preference will be given to students registered in a program of study and registered full-time, with additional preference given to students studying for the full year (i.e. at least four courses per semester for undergraduate students). Special consideration will be given to students who came from a developing country and plan to return and apply their education from NSAC. Selection criteria include financial need and potential impact of the bursary on the student's lifestyle while at school, and future plans. Applications must be submitted to the NSAC Awards Office no later than September 20.

Rhonda Rae Rumbolt Memorial Scholarship

In memory of Rhonda Rae Rumbolt, a \$2,000 scholarship is awarded to a final-year B.Sc.(Agr.) student. Selection criteria include outstanding leadership and involvement in the college community as displayed by participation in extracurricular activities, combined with a strong academic record. Applications must be submitted to the NSAC Awards Office no later than September 29.

Rick Russell Memorial Bursary

In memory of Rick Russell, a long-time woodsmen coach and Animal Science Technician graduate, a \$500 bursary will be awarded to a woodsmen athlete in the second, third or fourth year of study in any program at NSAC. The selection criteria include financial need, involvement and leadership in the woodsmen program, and satisfactory academic performance. No application is required.

Scholarships for In-program Students

At the discretion of the Scholarship Committee, scholarships of variable amounts will be awarded to students who perform well in their studies at NSAC. The minimum requirement is an 80% average in work of the previous year and no failed courses (including Drop Fails), with preference given to students who have, in addition, maintained a cumulative average of 80%. The average is determined from the full year of study, which is normally defined as September 1 to August 31. The average is determined by all marks earned by the student in the previous year—non-credit courses are included in the calculation of the year's average for degree students. For scholarship purposes, averages are calculated to the nearest whole number (if an average falls exactly between two whole numbers, the average is rounded up). To be eligible, students must maintain registration in at least 80% of the number of courses for the normal course load per semester for both the previous and current years. In the event that a recipient is not able to complete the full year, on completion of the first semester on a full-time basis he/she would be entitled to receive half the award announced at Autumn Assembly. Students who were registered for the full year in the previous year will be eligible for in-program

scholarships for the one remaining semester in the current year if they only have one semester to complete their program requirements.

Scholarships for International Students

Scholarships from \$1,000 to \$5,000 will be awarded to selected International students enrolled for the full year in a program of study at NSAC. The maximum award will be half the tuition for the year of study. All students paying the International tuition differential are eligible for consideration. The awards are merit-based and normally require registration in 80% of the normal course load for the program of study in both the previous and current years of study. In-program scholarships will be offered to outstanding transfer students (an 80% or equivalent average from other post-secondary study is required for consideration) or to returning NSAC students who have a minimum average of 80% in the work of the previous year at NSAC with no failed courses (including Drop Fails). Preference is given to students who have, in addition, maintained a cumulative average of 80%. The number and value of awards will be dependent on the number of International students eligible for consideration. No application is required.

Shur-Gain Division/Maple Leaf Foods, Inc. Scholarship

Shur-Gain Division/Maple Leaf Foods, Inc. awards a \$1,000 scholarship to a final-year B.Sc.(Agr.) student in the Animal Science option. Selection criteria include academic performance, leadership qualities, and participation in student & community affairs. Applications must be submitted to the NSAC Awards Office no later than Sept 29.

G.G. Smeltzer Memorial Bursary

The \$1,000 G.G. Smeltzer Memorial Bursary is awarded to a third- or fourth-year student from Atlantic Canada studying in the B.Sc.(Agr.) program majoring in Plant Science (Agronomy specialization). Selection criteria include a genuine interest in the area of field crops reflected through course and project work and summer employment, and financial need. No application is required.

Smucker Foods of Canada Scholarship

The \$1,200 Smucker Foods of Canada scholarship will be awarded to an outstanding student in any year of any program who has not received other significant awards. No application is required.

Stewiacke Valley Garden Club Bursary

The \$250 Stewiacke Valley Garden Club Bursary is awarded to a student from the Stewiacke Valley area of Nova Scotia studying at NSAC. Selection criteria include involvement in extracurricular and community affairs, financial need, and academic performance. Applications must be submitted to the NSAC Awards Office by September 22.

Syngenta Pest Management Awards

Syngenta Crop Protection awards three \$500 scholarships to students at NSAC whose course and project work reflect an interest in the Maritime potato industry. Applicants will be required to submit an essay (300-500 words) expressing an opinion on a topic relating to the crop protection industry; suggested topics include the future of genetically modified plants/crops, or the future of crop protection products in Maritime agriculture (the fit and relevance of the agri-chemical industry to today's agri-food industry). Selection criteria include academic performance, interest in the Maritime potato industry, and potato farm experience or background. Applications must be submitted to the NSAC Awards Office no later than September 29.

Taste of Nova Scotia Quality Food Program Scholarship

The Taste of Nova Scotia Quality Food Program offers a \$1,000 scholarship to an NS student in

any year of any program at NSAC whose course and project work, summer employment, and career plans reflect a commitment to rural communities. Selection criteria include interests in rural entrepreneurship and/or rural development as reflected through course and project work, and financial need. Applications must be submitted to the NSAC Awards Office no later than October 5.

Bruce Trenholm/Atlantic '86 Scholarship

A \$500 prize is awarded to an Atlantic Canada student entering the final year of any program who has a Holstein farm or 4-H (Holstein calf project) background. Selection criteria include academic performance and career goals. Applications must be submitted to the NSAC Awards office no later than September 29.

Vice-President's Scholarship

This \$300 scholarship is awarded to a final-year B.Sc.(Agr.) student. No application is required.

Florence (Pineo) Ward Memorial Awards

Three to five bursaries with a total value of \$2,000 will be awarded annually, in memory of Florence (Pineo) Ward, to NSAC students in financial need. Recipients will have completed at least one year of study in a technical, B.Tech, or B.Sc.(Agr.) program. Preference will be given to students with sound academic background who have come to NSAC for technical training to enhance their employability but whose financial constraints are limiting their ability to continue their studies. In the event that two or more candidates otherwise qualify for one of the awards, preference will be given to students from Boutilier's Point, Halifax County, or Advocate, Cumberland County. Application forms must be submitted to the NSAC Awards Office no later than October 5.

Raymond Webber Memorial Scholarship

Landscape Nova Scotia and the New Brunswick Horticultural Association jointly award a \$600 scholarship to the most promising Environmental Horticulture Technology second-year student. Selection criteria include academic performance and practical work skills. No application is required.

Wentworth Valley Garden Club Bursary

The \$250 Wentworth Valley Garden Club Bursary is awarded to a student from the Colchester or Cumberland County area of Nova Scotia studying in a program related to Horticulture at NSAC. Selection will be based primarily on financial need, with sound academic performance secondary. Applications must be submitted to the NSAC Awards Office by September 22.

Michael Whidden Memorial Award

The \$2,000 Michael Whidden Memorial Award will be awarded to a student who has provided leadership on NSAC's Woodsmen Team, and has maintained a sound academic performance. No application is required.

Eric Williams Memorial Scholarships

Two \$1,000 scholarships sponsored by the Dairy Farmers of Newfoundland and Labrador are awarded to students from Newfoundland and Labrador who have completed at least one year of study at NSAC in any program (generally, one to a technical student and one to a degree student). Selection will be based on academic performance. No application is required.

Wild Blueberry Producers Association of Nova Scotia Scholarship

The Wild Blueberry Producers Association of Nova Scotia awards a \$750 scholarship to a Plant Science student entering the third or fourth year of the B.Sc.(Agr.) program. Selection will be

based on academic performance and financial need. Preference will be given to someone with interest and experience in small fruits. Applications must be submitted to the NSAC Awards Office no later than September 29.

III. GRADUATE SCHOLARSHIPS/BURSARIES

The following scholarships are available exclusively to graduate students studying at the Nova Scotia Agricultural College.

Stuart & Ruth Allaby Graduate Studies Scholarship

The \$1,000 Stuart and Ruth Allaby Graduate Studies Scholarship is awarded to an M.Sc. student at NSAC concentrating on animal research. No application is required.

Atlantic Farm Mechanization Show Graduate Scholarship in Engineering

The \$1,000 Atlantic Farm Mechanization Show Graduate Scholarship in Engineering is awarded annually to an M.Sc. student at NSAC conducting research in engineering. No application is required.

Doug Bailey Memorial Bursary

Farmers Dairy awards a \$2,000 bursary to a student in any year of any program at NSAC who is a family member of a Farmers Dairy shareholder or employee. The bursary is named in memory of Doug Bailey, a former President and CEO. Selection criteria include leadership and extracurricular and community activities, financial need, and a sound academic record. Applications must be submitted to the NSAC Awards Office no later than October 5.

Merle Cail Memorial Scholarship

The \$1,000 Merle Cail Memorial Scholarship is awarded annually to a senior undergraduate student or a graduate student at NSAC whose course or project work reflect an interest in organic agriculture. Selection criteria include academic performance, financial need, and commitment to organic agriculture. Application forms accompanied by one letter of recommendation must be submitted to the NSAC Awards Office no later than September 20.

Canard Graduate Conservation Fund Scholarship

The Canard Conservation Fund provides a \$2,000 scholarship to a graduate student at NSAC conducting research work on environmental issues. Selection criteria include research aptitude and experience, relevance of the applicant's research to conservation issues, and sound academic performance. Only full-time students will be eligible, and preference will be given to students in the second year of study in the M.Sc. Program. Applications should include an essay on the importance of the research to conservation issues, a resumé, and an official transcript. Applications must be submitted to the NSAC Awards Office no later than July 28.

Chicken Producers of Nova Scotia Bursary

The \$1,000 Chicken Producers of Nova Scotia Bursary is awarded to an NS student at NSAC who shows a demonstrated interest in pursuing the study of poultry. Preference will be given to applicants with a farming background. Students in all years of study are eligible. A student may not receive this scholarship more than once. Application must be submitted to the NSAC Awards Office no later than September 20.

Dairy Farmers of Nova Scotia Bursary

The Nova Scotia Milk Producers Association awards a \$1,000 bursary to an NS student doing project or course work related to the dairy industry. Students in the third or fourth year of the

B.Sc.(Agr.) program (any option) or graduate students undertaking course or project work related to the dairy industry are eligible. Selection criteria include proven interest and experience in the dairy industry, the potential beneficial impact of study on the Nova Scotia dairy industry, and academic performance. Applications must be submitted to the NSAC Awards Office no later than September 29.

The Gordon B. Kinsman Memorial Graduate Scholarships

Two \$1,500 Gordon B. Kinsman Memorial Graduate Scholarships will be awarded to graduate students in Horticulture at NSAC. At least one of the scholarships each year will be awarded to a student conducting research work related to the blueberry industry. Applications must be submitted to the NSAC Awards office no later than July 28.

Robert P. Longley Memorial Graduate Scholarships

Two \$7,000 scholarships will be awarded to NS residents entering the M.Sc. degree program on a full-time basis at NSAC. The scholarships will be awarded on the basis of academic performance (cumulative GPA from undergraduate degree). Recipients of NSAC Graduate Entrance Scholarships and students on employment leave with salary continuation are not eligible. No application is required.

NSERC Postgraduate Scholarships

The Natural Sciences and Engineering Research Council of Canada provide postgraduate scholarships to high-calibre scholars who are engaged in master's or doctoral programs in the natural sciences and engineering disciplines at universities in Canada. To be eligible, students must be Canadian citizens or permanent residents of Canada who hold, or expect to hold at the time to take up the award, a degree in science or engineering from a university whose academic standing is acceptable to NSERC, who will pursue full-time graduate study and research at the master's or doctoral level in the natural sciences or engineering in the following year, and who have an 80% average in each of the last two completed years of study. The value of the awards is \$17,300 per year for students studying at the master's level and \$19,100 per year for students studying at the doctoral level. The awards are tenable for a maximum of two years. Applications must be received at the office of Research and Graduate Studies by November 1.

NSAC Association of Graduate Students Bursary

This award is valued at \$400. Any graduate student of NSAC is eligible to apply (any year; full-time or part-time). Selection is based on financial need. Applications must be submitted to the Awards Office no later than October 5.

NSAC Graduate Entrance Scholarships

The Nova Scotia Agricultural College offers up to five scholarships of \$5,000 to students approved (or conditionally approved) for admission to the NSAC/Dalhousie M.Sc. Program. Students who have applied for admission to the graduate program at NSAC by the end of June each year will be considered for these awards. Only those applicants entering graduate studies on a full-time basis who have achieved a minimum admission average of 80% (cumulative undergraduate average) or equivalent will be considered. Although academic performance will be the prime selection basis, consideration will also be given to the diversity of backgrounds of candidates (including gender, country of origin, institution of origin, minority groups, supervisors, and programs of study). No application is required.

The Allan A. Saunders Memorial Graduate Scholarship

The \$3,000 Allan A. Saunders Memorial Graduate Scholarship is awarded annually to a graduate student at NSAC who is conducting research relating to the Dairy Industry. Applicants who have completed their undergraduate degree at NSAC and wish to pursue their master's degree at

another postsecondary institution will be considered. Selection criteria include academic performance, dairy farm background and/or demonstrated interest in the dairy industry, and financial need. Applications are due at the NSAC Awards Office no later than July 28.

Dr. Chesley E. Smith Memorial Graduate Scholarship

The \$500 Dr. Chesley E. Smith Memorial Scholarship is awarded annually to a graduate student at NSAC. All full-time M.Sc. students will be considered. Preference will be given to students whose course and project work reflect an interest in Plant Science or Agronomy. Selection criteria include academic performance and financial need. Applications must be submitted to the NSAC Awards Office no later than July 28.

Syngenta Crop Protection Canada Graduate Scholarship

The \$1,000 Syngenta Crop Protection Canada graduate scholarship will be awarded annually to an M.Sc. student at NSAC conducting research pertaining to sustainable agriculture. For the purposes of this award, "sustainable agriculture" will be described as a balance between social, environmental, and economic priorities. Project areas eligible for support will focus on environmental quality and resource management, land management, integrated pest management, introduction of new technologies, economic viability, and rural community sustainability. Selection criteria include academic performance and research goals consistent with sustainable agriculture. Applications must be submitted to the NSAC Awards Office no later than July 28.

Graduate students are encouraged to look through the scholarship descriptions listed in Section II (Continuation Scholarships and Bursaries), Section V (Scholarships and Bursaries for Continuing Studies Beyond NSAC) and Section VII (Other Continuing External Scholarships and Bursaries) for awards available to students in any year of any program. M.Sc. students are eligible for consideration for awards targeted to any year of any program.

IV. MEDALS & PRIZES

Canadian Agricultural Economics Association Prize

The Canadian Agricultural Economics Association presents a book prize at Spring Convocation to a graduating student from the Agricultural Economics or Agricultural Business option of the B.Sc.(Agr.) program. This award is selected on the basis of overall performance. No application is required.

Canadian Society of Animal Science Prize

The Canadian Society of Animal Science presents a book prize at Autumn Assembly to a student in the fourth year of the Animal Science or Aquaculture options of the B.Sc.(Agr.) program. This award is selected on the basis of outstanding scholarship. No application is required.

Canadian Society of Soil Science Book Prize

The Canadian Society of Soil Science annually awards a book prize, valued at approximately \$100, to an undergraduate student whose course and project work reflect an interest in Soil Science. Students in any year of the B.Sc. (Agr) program are eligible. No application is required.

K. de Geus Memorial Prize for Plant Science

In memory of the late K. de Geus, a prize is awarded to a technical graduate. Selection is based on high standing in course work and preference is given to students in the horticultural field. No application is required.

Noel Enman Memorial Award

Established in 1984, the Noel Enman Memorial Award is presented annually in memory of NSAC alumnus Noel Enman (1961-1983) to a technical graduate whose personality and fellowship have contributed to student life and activities, thereby gaining the respect of the students and faculty at NSAC. Nominations should be submitted through the office of the Dean of Student Services by February 14. The award is presented at the graduation class banquet prior to Convocation.

Farm Credit Canada Business Planning Awards

Sponsored by Farm Credit Canada, the purpose of this award program is to encourage agricultural students to apply their knowledge and create "real-life" farm business plans for their operations (home, existing, or start-up). The awards are open to students in the final year of a Agricultural Business Technician, Agricultural Technology, or Farming Technology program who complete farm business plans during business project courses (MGMT0201 Business Project, MGMT0300 Farm Project, MGMT0302 Technology Project). Degree students who do Farm Business plans as part of their requirements for RESM4004 and RESM4005 will also be considered. Projects will be evaluated on the following basis: 60% on content, including realistic basis and accurate calculations; 30% on writing; and 10% on format and presentation. A student who has received an FCC Farm Business Planning Award is not eligible for a second one. Two cash prizes will be presented at Convocation (one of \$1,500 and one of \$500). No application is required.

H.J. Fraser Memorial Prize for English

In memory of the late Professor H.J. Fraser, a prize is awarded to a second-year student who has achieved excellence and provided significant contribution to the discussion in a first-year English course at NSAC. No application is required.

Dr. Gerry W. Friars Undergraduate Research Prize

The \$250 Dr. Gerry W. Friars Undergraduate Research Prize is awarded at Convocation to the student who is judged to have completed the best written research report as part of his/her fourth-year project requirements. Dr. Friars, an NSAC Alumnus from 1948, was introduced to scientific research by an undergraduate research project. This was the beginning of a career in research and teaching. No application is required.

Governor General's Medals

The gold Governor General's Medal is awarded to the M.Sc. graduate from the current year with the highest compiled score of the thesis, thesis defence, graduate course record, and teaching performance. A silver Governor General's Medal is awarded to the Bachelor's graduate (B.Sc.(Agr.) or B.Tech) who achieves the highest cumulative academic standing in the program. A bronze Governor General's Medal is awarded to the technical graduate who achieves the highest academic standing in the program. To be eligible, students must have completed at least half of their program at NSAC. No application is required.

Ketchum Manufacturing Company Limited Prize

The \$100 Ketchum Manufacturing Company Limited Prize is awarded to a graduate of the Animal Science option. No application is required.

Novartis Award

The Novartis Award is presented at Convocation to the top all-round student graduating from the Animal Health Technology program who has particularly excelled in the area of parasitology. No application is required.

Patterson Palmer Law Prize

Patterson Palmer offers a \$500 prize to any full-time student enrolled at the Nova Scotia Agricultural College who has lived or worked on a farm. Applicants are required to submit an essay, 500 to 1,000 words in length, regarding any major issue facing the farming community. The student who receives the award will be chosen on the basis of the quality of the essay written. Essays will be evaluated on the basis of insight into issues, quality of writing and readability, and organization. Applications must be submitted to the Awards Office no later than September 20.

Scholarships, Bursaries and Academic Prizes v. Scholarship and bursaries for continuing studies beyond NSAC

V. SCHOLARSHIPS AND BURSARIES FOR CONTINUING STUDIES BEYOND NSAC**APENS Award and Scholarship**

The Association of Professional Engineers of Nova Scotia (APENS) provides awards valued at \$500 and a scholarship valued at \$2,000. One APENS Award is presented each year at each of the Associated Universities to that student, graduating with an Engineering Diploma, who best demonstrates the promise of using outstanding abilities to serve society in an ethical manner as a Professional Engineer. Selection criteria include: qualities of ethical conduct, extracurricular activities, industry and intelligence, scholastic achievement, service to fellow students, and application of technical skills in an unselfish manner to the benefit of society and the promotion of the engineering profession. The APENS Scholarship is awarded to one of the APENS Award recipients graduating from the Associated Universities who exhibits academic excellence.

Cobequid Dog Club Scholarship

The Cobequid Dog Club awards a \$400 scholarship to an NS student from NSAC who is admitted to a veterinary college. No application is required.

Harney Estate Scholarships

Dr. Patricia Harney, NSAC Diploma Class of '48 and OAC Professor in Horticultural Sciences, has made generous provision through her estate to support NSAC students who wish to pursue research-focused graduate studies in agriculture at the University of Guelph or at Macdonald College, McGill University. These scholarships are to be granted to students based on high academic records who are committed to research excellence. One \$5,000 renewable scholarship from this fund serves to preserve the long-standing links between NSAC, Macdonald College, and Guelph. This award is tenable for two years for a master's degree program and three years for a Ph.D. program. Renewability will be based on maintaining scholarship standing in the program (will require A- or 80%). See the NSAC Awards Office for further information. To be eligible, NSAC graduates must be accepted or registered at Macdonald College or the University of Guelph for graduate work in agriculture. While registered at the University of Guelph or Macdonald College, the recipient may, with appropriate permission, pursue research at NSAC. Scholarship funds will be disbursed to the recipient through the institution in which the student registered. Initial review of applications takes place March 31, following which applications will be reviewed as received, conditional on funds remaining.

Dr. Allan and Barbara MacKay Scholarship

The \$1,000 Dr. Allan and Barbara MacKay scholarship will be awarded annually to a student from NSAC admitted to the Atlantic Veterinary College. In recognition of his long association with the practice of veterinary medicine in Nova Scotia and with NSAC, Dr. J. Allan MacKay, NSAC class of 1943, has established this scholarship which will be presented to NSAC's Autumn Assembly. No application is required.

Edith Main Memorial Bursary

In memory of Edith Main, the auxiliary to the Nova Scotia Veterinary Medical Association awards a \$100 bursary to an NS student who has attended NSAC and has been admitted to a Canadian veterinary college. No application is required.

Nova Scotia Fur Institute Scholarship

The Nova Scotia Fur Institute awards a \$2,500 scholarship to a graduate in Animal Science from NSAC who is pursuing graduate studies in fur production at an approved university. Selection will be based primarily on academic performance. A letter of application, with transcript and resumé, must be submitted no later than March 31 to: Chairman, Nova Scotia Fur Institute, Nova Scotia Agricultural College, PO Box 550, Truro, NS B2N 5E3

Nova Scotia Power Inc. Centennial Scholarships in Engineering

In 1967 Nova Scotia Power instituted four permanent scholarships as a continuing Centennial project. These scholarships are tenable only at Dalhousie University, Faculty of Engineering, and are open to students completing engineering studies at the following associated universities: Acadia, Dalhousie, Mount Allison, St. Francis Xavier, Saint Mary's, Cape Breton University, and the Nova Scotia Agricultural College. The scholarships are for a term of two years at \$1,500 per year and are applicable to Electrical, Mechanical, Chemical, Civil, and Industrial disciplines. Applicants must be Canadian citizens and residents of Nova Scotia for at least three years, two years of which are immediately prior to graduation. A selection board considers the academic excellence, personality, and involvement in extracurricular activities of applicants recommended by the Agricultural Engineering Department at NSAC. Continuance of the scholarships will be conditional on the attainment of a satisfactory academic record. Application deadline is April 30.

VI. OTHER ENTRANCE EXTERNAL SCHOLARSHIPS AND BURSARIES

(Although not exclusive to NSAC students, the following scholarships/awards are available to students entering NSAC.)

African Nova Scotian Student University Entrance Scholarships

Valued at \$4,500, these scholarships are available to African Nova Scotian students who successfully complete Grade 12 in the public school system of NS within the current year and who have been accepted and will attend a university in the academic year immediately following Grade 12. Applicants must be enrolled in a full-time degree program and have obtained an average of 75% in select courses. Application deadline is May 30.
acs.ednet.ns.ca/scholarships.shtml

Wallace Anderson Memorial Scholarship Fund

The scholarship is for manual Deaf students(s) living in southwestern New Brunswick who wish to further their educational goals on a full-time or part-time basis. Application forms must be completed and submitted no later than April 30 to: Saint John Deaf and Hard of Hearing Services Inc., c/o Scholarship Fund Committee, sjdhhs@nb.sympatico.ca

Aquaculture Association of Canada Scholarship

Six \$1,000 scholarships will be awarded annually to AAC student members enrolled in a postsecondary institution in an aquaculture-related program. Selection is based on scholastic ability (transcript of marks required); interest and involvement in aquaculture (e.g. summer employment); publication record, if any; and a 250-word essay on where the applicant sees him/herself contributing to sustainable aquaculture development in the future. Contact the NSAC Awards Office or check the website for further details. Application deadline is November 15.

www.aquacultureassociation.ca

Association of Nova Scotia Housing Authorities Awards

Several \$1,000 renewable awards are awarded to NS residents who live in housing units administered by a Nova Scotia Housing Authority, and need financial assistance to enable them to continue their education at a postsecondary level (e.g. university, community college, trade school or technical school). Awards are tenable at any legally recognized educational institution chosen by the applicant and approved by ANSHA. Application deadline is May 1 each year. Information and application forms are available at: ANSHA Student Awards Committee, Box 753, Amherst, NS B3H 4B9

Atlantic Canada Marine Biodiversity Essay Contest

The Centre for Marine Biodiversity has an annual Atlantic-wide essay contest open to all Grade 12 students in NL, NS, NB, and PE. The contest is intended to increase awareness of the biological diversity within Canada's vast ocean territories. The essay subject for this year is "Discuss the observed and predicted effects of climate change on the marine biodiversity of Arctic ecosystems." Students are asked to address various topics in the essay. The application deadline is March 1.

www.marinebiodiversity.ca/en/home.html

Alexander Graham Bell Association for the Deaf Scholarship Awards

The Alexander Graham Bell Association for the Deaf administers a number of scholarships varying in amounts from \$500 to \$1,000. Scholarships are open to qualified American and Canadian students who were born with a profound or severe hearing impairment, or those who have lost their hearing before acquiring language skills and have been accepted into a regular full-time college or university program. Interested students must request an application in writing before December 1 of the year previous to the one in which they intend to study.

www.agbell.org

Arlene Burris Memorial Scholarship

The Arlene Burris Memorial Scholarship is awarded to a person studying in any field that will prepare him or her to work with children who are deaf or hard of hearing, or to an individual who is deaf or hard of hearing pursuing postsecondary studies. Application deadline is May 1. For more information please contact Programs for Students who are Deaf or Hard of Hearing,

Atlantic Provinces Special Education Authority, (902) 424-8500 (902) 424-8500 FREE or
dhh@apsea.ca.

Canada Millennium Scholarship Program

The Canada Millennium Scholarship Foundation's Excellence Award Program provides scholarships to high school graduates entering their first year of full-time studies leading to a first postsecondary degree certificate or diploma. The excellence award program serves to recognize, support, and encourage talented Canadians who make positive and significant contributions to the betterment of communities across the country, who demonstrate capacity for leadership and are committed to the pursuit of academic excellence and innovation. Applications are available on the website and at the NSAC Awards Office. Deadline for receipt of applications is January 15.

www.millenniumscholarships.ca

Canadian Forces Personnel Assistance Fund

Assistance is in place to assist serving and former members and their dependents with costs of postsecondary education. To obtain the loan in time for the semester beginning in September,

submissions should arrive at CFPAP by June 30. Otherwise, applications will be accepted throughout the year until funds are exhausted.
www.sisip.ca/en/cfpaf_e/programs_e.asp#education

Co-op Alton McEwen Scholarship

Two university entrance awards of \$1,000 are open to employees and dependents of members of Co-op Atlantic. This is a four-year renewable scholarship. Selection criteria include academic performance, demonstrated leadership ability, and interest in co-operation and co-operatives. The deadline is May 31.
www.co-oponline.com/english/at_work/scholarships.html

Co-Operators 4-H Scholarship

The Co-Operators 4-H Scholarship is a \$1,000 award presented to a student who is entering any year in a university, college, or other postsecondary educational institution. Candidates must be 16 years of age as of Jan 31 and must have been 4-H members for at least two years, and have been registered as 4-H members within the last five years. Selection will be based on personal background, goals and ambitions, community involvement, interest, and knowledge of accident prevention on the farm or in the home. A presentation to the selection committee and an interview are required. Candidates must submit the following by April 15 to the Provincial 4-H Office: application form, one reference letter, and a presentation in any medium (essay of 500-1000 words, double-spaced, typed or very neatly and clearly printed or written; video; speech; poster; etc.) with a theme of Farm Safety or Safety in the Home, focusing on accident prevention. Application details are available from the Provincial 4-H Office.
www.gov.ns.ca/nsaf/4h/glkit/scholar.shtml

Donald E. Curren Scholarship

The Donald E. Curren Scholarships are open to mobility-impaired students who have been accepted by a university in the Atlantic Provinces, with preference given to applicants who are paraplegic or quadriplegic. Recipients must be Canadian citizens or landed immigrants and reside in the Atlantic Provinces. The deadline for applications is July 31.
www.nsnet.org/cpans/schol.html

Epilepsy Association of NS Memorial Scholarship/Bursary & the James Russell Kline Memorial Bursary

The EANS offers three \$500 bursaries. To be eligible, applicants must be Canadian citizens or landed immigrants resident in NS for at least twelve months who are under a physician's care for treatment of epilepsy, 18 years old by August 1 in the year of application, and accepted into a recognized postsecondary school. See the NSAC Awards Office for further details and application form. The deadline is May 15.
www.epilepsyns.com

Epilepsy Canada Scholarships

This initiative, which is funded by Lundbeck Canada Inc., will help 30 young people with epilepsy across Canada continue their college or university studies. Each of these students will receive an award worth \$1,000 applicable to the 2006 academic year. The scholarship award program is open to all young people between the ages of 16 and 29 who are under the care of a Canadian physician for the treatment of epilepsy. The deadline is February 25.
www.epilepsy.ca/eng/left_menu/scholarship.html

Farm Credit Corporation 4-H Scholarship

Farm Credit Corporation awards ten \$1,000 scholarships (one per province) to students across

Canada who had been registered 4-H members in the last five years and who are in any year of any program of postsecondary study. Applicants must submit a completed application which includes general information, career plans, association involvement, and extracurricular involvement. In addition, applicants must submit a detailed plan for a community project that will either improve safety or reduce hunger in their community. Project plan should be a maximum of 3 typed pages in length. Project plans will be judged on completeness of plan, creativity, originality, spelling, and grammar. Application forms must be received by the Canadian 4-H Council by February 28.
www.4-h-canada.ca/programs/

Terry Fox Humanitarian Award Program

This program provides scholarships to students entering or attending postsecondary educational institutions within Canada. The successful applicants are recognized for dedication to community service, humanitarianism, perseverance and courage in the face of obstacles, and the pursuit of excellence in fitness and academics. The scholarship is a renewable award, subject to satisfactory progress. The value of each award is \$4,000 per year for a maximum of four years or until the first degree is obtained. The deadline for applications is February 1.
www.terryfox.org

Fredericton Scottish Rite Award

This \$500 award is given to students graduating from School Districts 10, 12, 13, 17, and 18 who have intellectual disabilities. Application deadline is April 15. For more information contact: Fredericton Scottish Rite Award, c/o Fredericton Association for Community Living, 1079 York Street, Fredericton, NB E3B 3S4.
www.gnb.ca/0048/english/schindex.htm

Walter and Wayne Gretzky Scholarship Foundation for the Blind Youth of Canada

Scholarships of \$3,000 to \$5,000 are available to applicants who are blind or severely visually impaired, graduating from a secondary school, and planning to pursue a full-time postsecondary course of study. The applicants must be Canadian citizens or have held landed immigrant status for one year prior to the date of application. The selection committee will endeavor to select winners from the various regions of Canada. Applications must be received by May 31.
www.cnib.ca/eng/awards/wgs/

Harvest Trust 4-H Scholarships

Harvest Trust awards one \$1,000 scholarship per province to students entering a Degree program in Agriculture who have been 4-H members within the last five years and active in the 4-H program for at least two years. Selection criteria include personal background, goals and ambitions, financial need, community involvement, and interest in and knowledge of agricultural issues. Applicants must submit an essay (500-1000 words) addressing one of the following topics:

- 1) We are living in a global economy. What can individual producers do to ensure Canadian products can compete in the competitive export markets?
- 2) How can producers become more pro-active in the marketing of agricultural products?
- 3) What action must producers and producer organizations take to ensure sustainable agriculture?
- 4) What effects do sustainable agriculture, animal welfare and environmental protection have on consumer attitudes and consumer consumption patterns?

For application details contact the Provincial 4-H Office. Application deadline is April 15.
farmcentre.com/english/courses/ss.asp

Imperial Tobacco Scholarship Fund for Disabled Students

This program is used to help Canadian disabled students attend university. The award is \$5,000 for each student who is chosen (a minimum of 10 awards are offered each year). Persons applying for the award must be Canadian citizens or have lived in Canada for at least two years as legal permanent citizens. All applicants must be entering or currently enrolled in a first undergraduate program at a Canadian post-secondary institution. Recipients may re-apply. The deadline to apply is June 1.

www.ldrc.ca/scholarships

Jamie Irving Memorial 4-H Scholarship

The \$1,000 Jamie Irving Memorial 4-H Scholarship is presented to a PEI student with a 4-H background entering a recognized post-secondary institution. Selection criteria include 4-H background, community involvement, goals and ambitions, an interview, and an essay. Application deadline is April 15.

www.pei4h.pe.ca/scholarship.html

Maritimes & Northeast Pipeline Liaison Scholarships & Academic Achievement Awards

The Assembly of Nova Scotia Mi'kmaq Chiefs and Maritimes & Northeast Pipeline (M&NP) are committed to the development of future generations of Mi'kmaq students through academic and personal development. They have made available \$1,000 scholarships for full-time/part-time students enrolled in university, college, vocational or technical institute, and \$500 Academic Achievement Awards for students graduating from high school, Adult High School, or academic upgrading. To be eligible, students must be registered with a Nova Scotia Mi'kmaq band, enrolled either full-time or part-time and expect to return the following year to their field of study, and graduating from high school or a university program. Application deadline is June 16 for scholarships and July 21 for academic achievement awards.

www.mns.firstnet.ca or www.mnpp.com

Mattinson Endowment Fund Scholarship for Disabled Students

This program is to encourage Canadian students with a disability to obtain a first university degree. The award is \$2,500; the number awarded each year will be based on the funding available for that year. Applicants must be Canadian citizens or have lived in Canada for two years as legal permanent citizens. All applicants must be entering or currently enrolled in a first undergraduate program at a Canadian postsecondary institution. Recipients may re-apply. The application deadline is June 1.

www.aucc.ca/scholarships/open/mattinson_e.html

Monsanto Canada Inc. Scholarships

Monsanto Canada Inc. awards sixty \$1,500 scholarships to high school students from across Canada entering the first year Agriculture (any discipline), Forestry, Agri-Science, or Management (Marketing/Finance) programs (degree or diploma) at a Canadian educational institution. Students from agricultural or forestry family farms are eligible. Selection criteria include academic performance and leadership in the community. Application forms are available

on the website. For more information, call 1-800-667-4944 1-800-667-4944 FREE .

Applications must be post-marked no later than July 15.

www.farmcentral.com

National Bank of Canada Bursary and Summer Employment Program

National Bank of Canada is proud to announce its 15th annual Bursary and Summer Employment Program for University and CEGEP Students with Physical or Sensory Disabilities to help them pursue their studies and gain work experience in a field related to their studies. Under the

program, the bank awards two \$2,000 bursaries together with a paid 12-week summer job for university students and one \$1,000 bursary together with a paid 10-week summer job for CEGEP students. Program information and application forms are available on the website. Application deadline is March 5.

www.nbc.ca/bursary

New Brunswick Fruit Growers' Association Scholarship

The \$300 New Brunswick Fruit Growers' Association Scholarship is awarded to an NB resident entering a program of study in horticulture or related courses at an agricultural college or university with the purpose of returning to, or working in, the New Brunswick tree fruit industry. Selection criteria include academic performance, involvement in community activities, volunteer work, farming or orchard experience, interests in the fruit-growing industry, and future career plans. Applications must be submitted no later than September 30 to: NBFGA, Scholarship Committee, 1115 Regent Street, Suite 206, Fredericton, NB E3B 3Z2
farmcentre.com/english/courses/ss.asp

NS Department of Agriculture 4-H Scholarships

The Nova Scotia Department of Agriculture awards four \$1,000 scholarships to students with NS 4-H backgrounds entering a bachelor's program at a recognized university. At least one scholarship will be presented to students enrolling in their first year of an agricultural or veterinary science program. Applicants must submit an essay (2,500-4,000 words) on the topic "The Importance of Nova Scotia's Agriculture" and a transcript of their marks with their application by April 15.

www.gov.ns.ca/nsaf/4h/glkit/scholar.shtml

Nova Scotia 4-H Council Scholarship

The Nova Scotia 4-H Council awards a \$1,000 scholarship to a student with an NS 4-H background entering postsecondary study. Applicants must submit a 1,500-word essay on "How I Have Benefited from My 4-H Career" with their application by April 15.

www.gov.ns.ca/nsaf/4h/glkit/nscoun.pdf

Nova Scotia Fruit Growers' Association Scholarship

The Nova Scotia Fruit Growers' Association awards a \$500 bursary to a student entering or already in a postsecondary education program in the field of Tree Fruit Production or a related science program which might include the following: Biology, Chemistry, Food Science, Plant Science, Environmental Science, or Business or Agri-Business. Selection criteria include academic achievement, participation in school and community activities, and interest in the tree fruit industry. Applications, including a resumé, university/college acceptance letter or transcript, and an essay outlining career and life goals, must be received no later than May 31 by: Education Committee, NS Fruit Growers' Association, Blair House, 32 Main Street, Kentville, NS B4N 1J5.
farmcentre.com/english/courses/ss.asp

Nova Scotian Institute of Science Mentorship Program

This mentorship program is aimed at university students (undergraduate and graduate) seeking guidance regarding their career opportunities in science. For more information or to arrange for a mentor, email sean.tibbetts@nrc-cnrc.gc.ca.

www.chebucto.ns.ca/Science/NSIS/index.html

Partnership for Access Awareness Nova Scotia (PAANS) Scholarships

Partnership for Access Awareness Nova Scotia (PAANS), with the assistance of the Collaborative Partnership Network (CPN), sponsors scholarships to students with disabilities who are planning

to pursue further studies. To qualify, students must have a permanent disability, be a permanent resident of NS, be entering or returning to a Canadian postsecondary institution which is recognized by the Association of Universities and Colleges of Canada, and not be involved in the selection process nor related to any PAANS scholarship selection committee member. Application deadline is April 28.

accessawareness.nsnet.org

Bruce Pettipas Memorial Agricultural Scholarship

The Maritime Beef Testing Society, Nappan, NS, offers a \$500 bursary to a student from the Maritime Provinces entering the first year of a degree or technical program at a recognized Maritime university or college, or any agricultural institution requiring tuition. Preference will be given to those persons entering an Agricultural degree program and those persons majoring in an Animal Science program. Contact the NSAC Awards Office for application form and other details. Application deadline is May 1.

Phoenix Rotary Equipment Conservation Tillage Essay Contest

This contest is open to high school seniors and college students. Essays must be 700 to 1,000 words long and must pertain to some aspect of conservation tillage (e.g. no-till, zero-till, direct seeding, mulch-till, or ridge-till). Judging will be based on demonstrated knowledge of no-till practices as well as coherence, clarity, creativity, details, examples, grammar, vocabulary, and spelling. Application deadline is in November.

www.phoenixrotary.com

Prince Edward Island 4-H Council Scholarship

The PEI 4-H Council awards a \$1,000 scholarship to a student with a PEI 4-H background who is entering postsecondary study. Selection criteria include knowledge of 4-H history, community involvement, goals and ambitions, an essay, and an interview. Further information is available from PEI high school guidance counsellors. The deadline is April 15.

www.pei4h.pe.ca

P.E.I. Mutual Education Trust Fund Centennial Scholarship

Twenty \$450 entrance scholarships are available to PEI students who are attending any postsecondary institution. Selection criteria are based on academic performance and financial need. Students are encouraged to check with high school guidance counsellors. The deadline is May 31.

www.edu.pe.ca/agriculture/entrancescholar.html

Provincial Artisans (Fredericton) Inc. Bursaries

Several annual bursaries totalling \$10,000 are being funded by Provincial Artisans (Fredericton) Inc. To qualify for these awards a student must have a disability, be entering or currently enrolled in a postsecondary institution, and be a resident of New Brunswick. Application deadline is May 31.

www.provart.net

Rotary Club of Truro Post-Secondary Entrance Educational Bursary

The Rotary Club of Truro offers two \$1,500 postsecondary entrance educational bursaries to students wishing to pursue postsecondary studies at a college or university. The bursaries are tenable only at recognized postsecondary institutions and are awarded to students who reside in the geographic area served by the Rotary Club of Truro, Nova Scotia. These are non-renewable bursaries. Selection criteria include academic standing, community involvement, and need. Application deadline is May 1.

Royal Canadian Legion Bursaries/Scholarships

These awards are available to Grade 12 students entering first-year studies at university, community college or trade school. The following bursaries/scholarships are offered: Nova Scotia/Nunavut Command Bursary; Jack Moore Memorial Dominion Command Bursary; LAC Bursary; Wales Scholarship (for disabled students); Elsie Jean Lambert Scholarship; Halifax Poppy Fund Bursary. Applications can be found at NSAC Awards office or on the website. All forms must be submitted in the same envelope by July 15.
www.ns.legion

Sport Nova Scotia Excellence in Action Scholarships

The Excellence in Action Scholarship was created by Sport Nova Scotia and the Medical Society of Nova Scotia, in an effort to support and recognize the training and competition efforts of Nova Scotia athletes with a disability who are entering a degree or diploma program at a postsecondary institution. Application deadline is September 1. www.sportnovascotia.ca

Judge Brian Stevenson Scholarship Fund

The fund will make scholarship awards from \$300 to \$500 available to legally blind Canadians with strong career aspirations who are pursuing postsecondary studies. The forms must be completed in full and returned before September 30. Application forms are available from CNIB Divisional Offices; for more information contact: Judge Brian Stevenson Scholarship Committee, W. Ross Macdonald School, 350 Brant Avenue, Brantford, ON N3T 3J9; phone (519) 759-0730

(519) 759-0730 FREE .

www.gnb.ca/0048/english/schindex.htm

TD Canada Trust Scholarships

Twenty TD Canada Trust Scholarships are awarded honouring Canadian high school students for outstanding community leadership. The scholarships, worth \$50,000, include full tuition to a Canadian university or college, an extra \$3,500 a year for living expenses, and summer employment at TD Canada Trust for up to four years.
www.tdcanadatrust.com/scholarship/index.jsp

TD 4-H Agriculture Scholarships

TD Bank Financial Group and the Canadian 4-H Council sponsor up to ten \$2,000 scholarships for 4-H members in their last year of high school who are planning to enroll in postsecondary education in a discipline related to agriculture or agri-business. Applications including a transcript of marks must be received at Canadian 4-H Council by October 3.
www.4-h-canada.ca/scholarships.html

Carol Thomson Memorial Fund

This award is to recognize a student with a learning disability seeking to use his or her potential to its maximum. One scholarship valued at \$1,000 is awarded annually. The student must be attending a Canadian postsecondary institution. Deadline to apply is May 15.
www.ldac-taac.ca/Scholarships/thomson_criteria-e.asp

Toyota Earth Day Scholarship Program

Earth Day Canada and Toyota Canada offer a new and unique scholarship program that celebrates and rewards environmentally-minded students. Students must be entering first-year, full-time postsecondary studies in any chosen discipline. The program offers ten awards of \$5,000 or other educational expenses. Application deadline is January 31.
www.earthday.ca/EDy2k/Home/homefrm1.html

Young Canada Works

Each year Young Canada Works (YCW) creates approximately 2650 jobs for students and young graduates. YCW supports four summer job programs for students and two internship programs for unemployed or underemployed college and university graduates. Application deadline: February 18. Youth and employers can find out more information and can apply on the website. www.pch.gc.ca/special/ycw-jct/html/welcome_e.htm

Youth Entrepreneur Scholarships

The Nova Scotia Office of Economic Development wants to recognize NS students who create their own summer jobs, and sometimes employ others too, by starting their own business. If you're a student entrepreneur, or plan to be one this summer, you should consider YES. On top of making your own money with your business, you could earn a \$1,000 YES Scholarship. For further details, check the website or e-mail yes@gov.ns.ca. www.gov.ns.ca/econ/yes/default.asp

Wales Scholarship

The Wales Scholarship is a \$6,000 annual scholarship fund provided by the Province of NS to commemorate the wedding of the Prince and Princess of Wales. The annual fund is administered by the Nova Scotia/Nunavut Command of the Royal Canadian Legion. To be considered you must be a disabled Nova Scotian, starting or continuing postsecondary education in NS, and ineligible to receive assistance under the Employability Assistance for People with Disabilities (EAPD) program. Application deadline for awards for the upcoming academic year is July 15. nsabcu.ednet.ns.ca/scholarships.shtml

Robert Walker Memorial Scholarship

Established in 1975 as a memorial to Robert Walker, who lost his life in a farm accident, scholarships are awarded to NB students entering a first year of postsecondary study. Applicants must have been active 4-H members in the Southern District in New Brunswick with a farm background. Application information is available from NB Department of Agriculture, Fisheries

and Aquaculture, 701 Main St., Box 5305, Sussex, NB E4E 7H7; phone (506) 432-2150 (506) 432-2150 FREE ; fax (506) 432-2044. www.nb4h.com/ewelcome/escholarship/escholarship.htm

Wanderer's Amateur Athletic Scholarship

This award is open to students who have had an injury leading to paraplegia or quadriplegia, who have been accepted at a postsecondary institution in the Atlantic Provinces. Applicants must be Canadian citizens or landed immigrants residing in Atlantic Canada prior to applying. Deadline is July 31. For information e-mail Halifax@canparaplegic.org. www.nsnet.org/cpans/schol.html

Western District (NB) Grain Growers Scholarship

This \$300 scholarship is awarded to a student currently registered in the 4-H Program in the Western District of New Brunswick, entering post-secondary study in the fall. Selection criteria include financial need, academic record, and 4-H involvement. Application information is available from the NB Provincial 4-H office.

Garfield Weston Merit Scholarship for Colleges

The Garfield Weston Merit Scholarship for Colleges program provides up to 50 national awards worth up to \$8,000 per year (renewable for up to four years of study). National award winners

can choose to attend any one of the participating colleges. NSAC is a participating college. There are also 30 regional entrance awards valued at \$4,000 and up to 25 provincial entrance awards valued at \$2,500 for use at any accredited community college in Canada. Applicants must be either Canadian citizens or landed immigrants, and be entering a recognized diploma program leading to a first diploma or certificate to be eligible at an approved Canadian postsecondary educational institution. At NSAC, students entering two-year Technical programs (Diploma in Enterprise Management, Environmental Horticulture Technology, Plant Science Technology, and Veterinary Technology) are eligible. Participating colleges agree to provide a tuition waiver to any of the national award holders wishing to attend the institution. Application deadline is April 12.

www.gwmisc.ca

F.J.L. Woodcock/Sir Arthur Pearson Association of War-blinded Scholarship Fund

Students who have not more than 20/70 vision after corrections and who are continuing either their vocational or academic education at the postsecondary level are eligible to apply for a scholarship. Students should have a high degree of motivation, a reasonable level of achievement, and a need for assistance. Completed applications must be received at the SAPA National Office by April 29.

www.cnib.ca/eng/awards/sapa/

Zonta Club of Truro Bursary

The Zonta Club of Truro, NS area has established a \$1,000 bursary open to women of mature status who are attending or plan to attend a program of postsecondary education. A woman of mature status is defined as one who has been out of secondary school for five or more years. The bursary's purpose is to provide incentive for further education to mature women who need financial assistance. Program of further education needs to be at least two semester duration. Selection criteria include having qualifications for admission to the chosen program, having a defined education goal, having made arrangements for looking after family/dependent responsibility, and being highly motivated to change lifestyle (volunteered in chosen field). See the NSAC Awards Office for further application details. The deadline is May 31.

Zonta Club of Truro High School Bursary

The Zonta Club of Truro, NS, area offers two \$1,000 bursaries to women graduating from Grade 12 in the five high schools of the former Colchester-East Hants District School Board. Selection criteria include reason for selecting chosen program of study and financial need. See the NSAC Awards Office for application details. The deadline is May 31.

VII. OTHER CONTINUING EXTERNAL SCHOLARSHIPS AND BURSARIES

(Although not exclusive to NSAC students, the following scholarships/awards are available to students studying at NSAC.)

Agriculture and Agri-Food Canada Scholarship Program

The objective of this program is to provide incentives to encourage more students to pursue graduate degrees in disciplines related to agriculture and agri-food so as to promote the development of sufficient expertise in the agri-food sector. Graduate studies may be in agri-food marketing and trade; agri-biotechnology; environmentally sustainable agricultural production systems; food technology; industrial uses of agricultural commodities; and information technology related to agriculture and agri-food. Scholarship amounts are \$15,000 at the master's level with a possibility to renew for one additional year, and \$17,000 at the Ph.D. level. Nominations must be received by July 2.

Animal Nutrition Association of Canada Graduate Scholarship

\$1,000 ANAC Graduate Scholarships are awarded to Canadian university graduate students (including landed immigrants) enrolled in Animal Science or a related field of study, with a specific interest (research project/course selection) in animal nutrition. Applications must include a completed ANAC scholarship application form; a resumé; a reference from the applicant's university department advisor and/or department head; a one-page report detailing how new developments in the field of animal nutrition might challenge, benefit, or change the focus of the feed industry either regionally (East/West) or across Canada; and a list of nutrition-related courses completed (with final grade) and currently enrolled in (this can be in the form of an official transcript, or a list signed by the applicant's academic advisor). See the NSAC Awards Office for further details. The deadline for the Eastern competition (for applicants from universities east of the Ontario/Manitoba border) is January 31.

www.anac-anac.ca/index.html

Aquaculture Association of Canada Scholarship

Six \$1,000 scholarships will be awarded annually to AAC student members enrolled in a postsecondary institution in an aquaculture-related program. Selection is based on scholastic ability (transcript of marks is required), interest and involvement in aquaculture (e.g. summer employment); publication record, if any; and a 250-word essay on where the applicant sees him/herself contributing to sustainable aquaculture development in the future. See the NSAC Awards Office for further details. Application deadline is January 31.

www.aquacultureassociation.ca

Association of Nova Scotia Housing Authorities

Several \$1,000 renewable awards are awarded to NS residents who live in housing units administered by a Nova Scotia Housing Authority, and need financial assistance to enable them to continue their education at a post-secondary level (e.g. university, community college, trade school, or technical school). Awards are tenable at any legally recognized educational institution chosen by the applicant and approved by ANSHA. Application deadline is May 1 each year. Information and application forms are available from: ANSHA Student Awards Committee, PO Box 753, Amherst, NS B3H 4B9.

Dr. Kim Beck Memorial Scholarship

The Turkey Farmers of New Brunswick Marketing Board awards a \$500 scholarship in memory of Dr. Kim Beck. The scholarship will be awarded annually to an NB resident who is enrolled in a postsecondary agricultural program. Selection will be based on academic achievement, financial need, involvement in agriculture, and interest in the poultry or food industry. Applications are available at the NSAC Awards Office, or e-mail nbchickens@brunnet.net. Applications must be received by October 31.

Dalton Camp Award

The Dalton Camp Award offers a \$5,000 prize to the winner of an essay contest on the theme of the media's contribution to democracy in Canada. Application deadline is March 31.

www.friends.ca/DCA

Canadian Association of Diplomas in Agriculture Programs (CADAP) Bursaries

The Canadian Association of Diplomas in Agriculture Programs (CADAP) is an organization of postsecondary educational institutions offering diploma programs in agriculture. Its membership consists of institutions from across the country with a variety of programs emphasizing the agriculture of their region. To enable students from member institutions to benefit from this diversity in programs, the geographical variation, and the differing cultural backgrounds, CADAP will be offering, annually, \$1,000 bursaries for two students from different

CADAP institutions to participate in an exchange between member institutions. Duration of the exchanges will be one or two semesters or practical experience work sessions of at least 12 weeks. Students wishing to participate should make their interests known to the NSAC Vice-President Academic by December 15.

Canadian Cattlemen's Association, the Calgary Stampede, and the International Stockmen's Education Foundation Award to Participate in the 2006 International Livestock Congress, Calgary, AB

As part of the congress, the three host groups will support deserving students from across North America and the world to attend the meeting, meet other students working in the field, and network with industry leaders, many of whom they will be dealing with in the future. The students must be graduate students or at least fourth-year undergraduate students, with research interest directly relating to cattle or beef and the desire to pursue a career that relates directly to agriculture. Participating students are also asked to submit a report after the congress on how attending benefited their research interests. Nomination must come from NSAC. Please see NSAC Awards Office for further information. Application deadline is May 1.

Canadian Co-operative Association Scholarships

Graduate and undergraduate students are invited to apply for scholarships supporting research in co-operatives and co-operation which will contribute to the co-operative movement in Canada or abroad. Application deadlines are March 1 and June 30.
www.coopscanada.coop/Links/awards.html

Canadian Forces Personnel Assistance Fund

Assistance is in place to assist serving and former members and their dependents with costs of postsecondary education. To obtain the loan in time for the semester beginning in September, submissions should arrive at CFPAP by June 30. Otherwise, applications will be accepted throughout the year until funds are exhausted.
www.sisip.ca/English/Cfpaf_e

Canadian Federation of University Women (Truro Branch) Scholarship

Scholarships are awarded to mature women over the age of 25 attending a degree-granting university or college on a full-time basis. Applicants must be Canadian citizens and residents of the town of Truro or the County of Colchester in Nova Scotia. The applicants must have been out of school for at least five years before embarking on their present program of study. A candidate is eligible to apply during any year of a degree-granting program. If still eligible, an applicant may re-apply for this scholarship if the application during the previous year was unsuccessful. The application deadline is May 15.

Canadian Golf Superintendents Association Scholarships

The Canadian Golf Superintendents Association supports CGSA member students who are attending educational programs as a means of enhancing their knowledge and skills for the turf grass profession. The Scholars Fund is available to those currently enrolled in at least the second semester of a recognized turf grass program of two years' duration or longer. Selection criteria include academic performance, financial need, and the content of the application which demonstrates the applicant's interest in the field of turf grass as a career. Applications are due by November 30 at: Canadian Golf Superintendents Association, 5580 Explorer Dr., Suite 509, Mississauga, ON L4W 4Y1.
www.golfsupers.com

Canadian Meat Science Association Scholarships

The Canadian Meat Science Association (CMSA) awards two \$2,000 scholarships per year to

graduate students studying meat science in Canada. The purpose of the two scholarships is to promote quality education and the development of meat science research in Canada. The awards are presented in February. Application deadline is October 1.
cmsa-ascv.ca

Canadian Western Agribition Scholarships

Several \$1,000 scholarships are awarded to students who have participated in Canadian Western Agribition as Exhibitors. Applicants must have completed at least one year of post-secondary study to be eligible. Application deadline is July 1.
www.uregina.ca/awards/scholarships/

Florence M. Christie Memorial Bursary for Women

The Greater Saint John Community Foundation awards annual \$1,500 scholarships to women of Saint John, NB. Applicants must be mature female students (i.e. out of high school at least one year), with demonstrated financial need, entering or returning to full- or part-time studies at a post-secondary institution in September. The bursary must be applied to tuition. High academic standing is not a requirement. The application must include the completed application form, a statement of income and expenses, three letters of reference, a transcript of marks, volunteer experience/school participation, and future goals. Application deadline is March 28.
www.saint-john-foundation.nb.ca/Scholarships/Main.html

Dairy Farmers of New Brunswick Scholarship

Dairy Farmers of New Brunswick offer a \$750 scholarship to an NB resident who is enrolled in any year of an approved technician or technology diploma or certificate program relating to agriculture. Application deadline is June 27. Further information and application form are available from nbmilk@nbmilk.com.

Dairy Farmers of New Brunswick Memorial Scholarship

Dairy Farmers of New Brunswick offer a \$750 scholarship to an NB resident who is enrolled in a recognized postsecondary agricultural program and accepted into first year of an approved agricultural program. Further information and application form are available from nbmilk@nbmilk.com.

Datatel Scholars Foundation Scholarship

Datatel provides scholarship support for students currently attending an eligible Datatel Client college or university. NSAC is a client of Datatel. The application packages will include personal statement essays which should summarize educational goals and objectives, where the applicants have been as individuals, and where they hope their education will take them. They should also indicate the difference a Datatel scholarship would make in their lives and to those around them. Scholarship amounts range from \$1,000 to \$2,400, based on the undergraduate tuition at the college or university the applicant attends. Application deadline is January 31.
www.datatel.com/dsf

Entomological Society of Canada Postgraduate Awards

The Society offers two \$2,000 postgraduate awards to students in study and research leading to a postgraduate degree in entomology (one to an M.Sc. student and one to a Ph.D student). Awards will be made on the basis of high scholastic achievement and scientific merit. Applicants must be enrolled as full-time graduate students at Canadian universities and be pursuing scientific studies on insects or other related terrestrial arthropods.
esc-sec.org/postgraduate_award_2005.pdf

Fairfax Financial Holdings Ltd. Scholarship Program

The scholarship program has been developed to promote and encourage academic excellence and the pursuit of higher education in Canada in university undergraduate programs and college diploma programs in any field of study. Candidates must be completing the first year of their first university degree program or college technical diploma program, be enrolled on a full-time basis, have attained high academic standing, and be in need of financial assistance. Duration of the scholarship is three years or until scholars obtain their first degree or diploma, whichever occurs first. The deadline is June 15.

www.aucc.ca/scholarships/open/fairfax_e.html

Farm Credit Corporation 4-H Scholarship

Farm Credit Corporation awards ten \$1,000 scholarships (one per province) to students across Canada in any year of any program of postsecondary study who had been registered 4-H members in the last five years. Applicants must submit a completed application which includes general information, career plans, association involvement, and extracurricular involvement. In addition to a completed application form, applicants must submit a detailed plan for a community project that will either improve safety or reduce hunger in their community. The project plan should be a maximum of three typed pages in length. Project plans will be judged on completeness of plan, creativity, originality, spelling, and grammar. Application forms are due at the Canadian 4-H Council by April 1.

www.pei4h.pe.ca/scholarship.html

Robert Felix Memorial Scholarship

The Tree Research & Education Endowment Fund (the TREE Fund) is sponsoring four \$3,000 scholarships through the Robert Felix Memorial Fund for undergraduate and technical college students who are pursuing careers in Commercial Arboriculture. Each scholarship will be non-repeating and can be applied for annually. The scholarships will be awarded one half in each semester of the school year. Application deadline is May 1.

www.treefund.org/grants/RFScholarship.aspx

Terry Fox Humanitarian Award Program

The program provides scholarships to students entering or attending postsecondary educational institutions within Canada. The successful applicants are recognized for dedication to community service, humanitarianism, perseverance and courage in the face of obstacles, and the pursuit of excellence in fitness and academics. The scholarship is renewable, subject to satisfactory progress. The value of each award is \$4,000 annually, for a maximum of four years or until first degree is obtained. The deadline for applications is Feb 1.

www.terryfox.org

Fredericton Scottish Rite Award

The award of \$500 is given to students who are graduating from School Districts 10, 12, 13, 17, and 18 who have intellectual disabilities. Application deadline is April 15. For more information contact Fredericton Scottish Rite Award, c/o Fredericton Association for Community Living, 1079 York Street, Fredericton, NB E3B 3S4.

www.gnb.ca/0048/english/schindex.htm

Keith Gilmore Foundation Scholarships

Four \$1,500 scholarships are offered to individuals in undergraduate or postgraduate degree programs in agriculture, journalism, or communications at recognized universities, and three \$750 scholarships are offered to individuals enrolled in recognized diploma programs in agriculture, journalism, or communications. The successful applicants will have already completed a minimum of one year in their programs. Applications are available at the NSAC

Awards Office and should be submitted no later than July 1 to The Keith Gilmore Foundation, 5160 Skyline Way N.E., Calgary, Alberta T2E 6V1.
www.keithgilmorefoundation.com

John Gyles Education Awards

The John Gyles Education Awards are available each year to male and female students for all areas of postsecondary study in both Canada and the United States. Full Canadian or American citizenship is a requirement. Criteria other than strictly academic ability and financial need are considered in the selection process; however, a minimum GPA of 2.7 is required. Selected students will receive up to \$3,000. Applications must be mailed by June 1. To receive an application form, send only a stamped self-addressed envelope to: John Gyles Education Awards, Attention: The Secretary, 259 – 103 Brunswick Street, Box 4808, Fredericton, NB E3B 5G4.

Hants County Exhibition Scholarship

This \$1,000 scholarship is sponsored by the Windsor Agricultural Society. Applicants must be residents of Hants County, NS, entering any year of any program at a recognized agricultural or veterinary college and have aspirations of working in the agricultural industry. Selection criteria include academic performance, extracurricular activities, part-time employment, and career plans. Application forms with copies of transcripts must be received by August 26 at: Windsor Agricultural Society, PO Box 368, Windsor, NS B0N 2T0.

Anna Helvig Schousboe Scholarship

This \$300 scholarship is awarded to a resident from Kings County, NB, working towards a degree or diploma in Agriculture, Veterinary Medicine, or Home Economics at a postsecondary institution. Application information is available at the NSAC Awards Office. Application deadline is September 20.

Holstein Association of Canada Scholarships

Holstein Canada offers three \$1,000 university (degree) scholarships and three \$500 college/university (diploma) scholarships to postsecondary students in Canada. Applicants must be regular or junior members of Holstein Canada, or children of members; must have completed at least one year of university/college; must submit official, original transcripts of the two most recent semesters; and must be returning to school within the calendar year. Application forms are available on the website or from the NSAC Awards Office. Application deadline is September 30.

www.holstein.ca/english/Youth/edaward.asp

Imperial Tobacco Scholarship Fund for Disabled Students

This program is used to help Canadian disabled students attend university. The award is \$5,000 for each student who is chosen (a minimum of 10 awards are offered each year). Persons applying for the award must be Canadian citizens or have lived in Canada for at least two years as legal permanent citizens. All applicants must be entering or currently enrolled in a first undergraduate program at a Canadian postsecondary institution. Recipients may re-apply. Deadline to apply is June 1.

www.ldrc.ca/scholarships.php

Ivomec 4-H Youth Scholarship

The \$1,000 Ivomec 4-H scholarships are awarded to students who have been 4-H members for at least two years (registered within the last 5 years) in any year of postsecondary study. As part of the selection process, applicants will be judged on their degree of community and volunteer involvement. Additionally, all applicants are required to submit a presentation in any medium

(essay of 500-750 words, video, speech on audio-cassette, poster, etc.) based on the following statement:

What is the future of branded consumer meat products in Canadian livestock production?

How will this development impact the way producers raise and market livestock?

Applications, accompanied by essay, video or audiocassette or poster, must be received by the Canadian 4-H Council office no later than May 15.

www.ivomec-4h.com/en/scholarship/fund.html

Arlen Kerr Memorial Scholarship

The Canada Mink Breeders Association awards a \$2,000 renewable scholarship to Canadian graduate students engaged in mink research attending any Canadian university or veterinary college. Applicants should submit their education profiles and research proposals by January 15 to: Karlene Hart, Executive Secretary, Canada Mink Breeders Association, 65 Skyway Ave., Suite B, Rexdale, ON M9W 6C7.

Kinsman and Kinettes Bursaries

The Hal Rogers Endowment Fund provides \$1,600 bursaries to full-time Canadian students demonstrating financial need, extracurricular involvement, high ideals, and qualities of citizenship who have not already received a bursary from the Hal Rogers Endowment Fund. The deadline is February 1.

www.bursary.ca

The Leonard Foundation

The Leonard Foundation offers financial assistance to university students who are experiencing specific financial difficulties. Full-time students who are enrolled in an undergraduate or first professional degree program in a recognized Canadian college or university (AUCC) are eligible. All applicants will be considered but preference will be given to sons and daughters of clergy, teachers, military personnel, graduates of Royal Military College, members of the Engineering Institute of Canada, and members of the Mining and Metallurgical Institute of Canada. The amount of assistance may vary depending on the applicant's financial situation, but on average will be about \$1250. Applications must be submitted and an interview arranged with the Nominator nearest you (listed on insert in application) by March 15. Applications for the Leonard Foundation scholarships are available from: The Provincial Nominator, The Leonard Foundation, 1774 Pryor St., Halifax, NS B3H 4G8.

www.leonardfnd.org

Terry MacDonald Memorial Scholarship

This scholarship is awarded to a Southern District NB 4-H member from a farm family who is entering or enrolled in postsecondary study. An interview is part of the application process. Application deadline is July 31. Applications are available from: Ron Menzies, RR #4, Norton, NB E0G 2N0.

www.nb4h.com/ewelcome/escholarship/escholarship.htm

C.C. MacDougall Scholarship

This \$250 scholarship is awarded to a student pursuing a degree or diploma in Agriculture, Home Economics, or Veterinary Medicine. To be eligible, a student must have been a 4-H member from Kings County, NB, or have parents who raise or breed Guernseys anywhere in NB. Application information is available from NB Department of Agriculture, Fisheries and Aquaculture, Sussex Provincial Bldg., 707 Main St., Box 5305, Sussex, NB E4E 7H7; phone (506)

432-2150 (506) 432-2150 FREE ; fax (506) 432-2044.

www.nb4h.com/ewelcome/escholarship/escholarship.htm

Maritime & Northeast Pipeline Liaison Scholarships & Academic Achievement Awards

The Assembly of Nova Scotia Mi'kmaq Chiefs and Maritimes & Northeast Pipeline (M&NP) are committed to the development of future generations of Mi'kmaq students through academic and personal development. They have made available \$1,000 scholarships for full-time/part-time students enrolled in university, college, vocational or technical institute, and \$500 Academic Achievement Awards for students graduating from high school, Adult High School, or academic upgrading. To be eligible, students must be registered with a Nova Scotia Mi'kmaq band, enrolled either full-time or part-time and expect to return the following year to their field of study, and graduating from high school or a university program. Application deadline is June 16 for scholarships and July 21 for academic achievement awards.
www.mns.firstnet.ca or www.mnpp.com

Maritime Dairy Industry Scholarship

Two individual scholarships of \$2,000 will be awarded. Students eligible to apply for this scholarship include any student currently attending a postsecondary education institution within Canada who has completed at least three years of study in a program that has application to the dairy industry, and is a resident of NS, NB, or PEI. Applicants must show professional and academic promise and a commitment and interest in the dairy industry. Applicants must submit a completed application form, a one-page letter stating their commitment and interest in the dairy industry, an official transcript of marks for completed years in postsecondary education, and three reference letters (at least one from a professor). Selection will be based on application requirements, academic standing, and potential contribution and commitment to the dairy industry. Applications must be submitted by January 31 to: The Maritime Dairy Industry Scholarship Committee, c/o Milk Maritime Inc., 191 Halifax Street, Suite 3, Moncton, NB E1E 4E1.
www.dairygoodness.ca

Mattinson Endowment Fund Scholarship for Disabled Students

This program is to encourage Canadian students with a disability to obtain a first university degree. The award is \$2,500; the number awarded each year will be based on the funding available for that year. Applicants must be Canadian citizens or have lived in Canada for two years as legal permanent citizens. All applicants must be entering or currently enrolled in a first undergraduate program at a Canadian postsecondary institution. Recipients may re-apply. Deadline to apply is June 1.
www.aucc.ca/programs/scholarships/mattinson_e.html

Douglas McRorie Memorial Scholarships

The Royal Bank Financial Group Foundation sponsors the Agricultural Institute of Canada Foundation (AICF) Douglas McRorie Memorial Scholarship, in recognition of the significant contribution Douglas McRorie, P.Ag, made to agricultural finance through his career with the Royal Bank and his professional involvement with the Agricultural Institute of Canada and AICF. The six annual \$1,500 scholarships provide financial support to master's program students specializing in agricultural business, finance, or trade. The scholarship is tenable for full-time study in the 2006/2007 academic year at any Canadian university with an agricultural program accredited by the Agricultural Institute of Canada. Selection criteria (not necessarily in order of importance) include academic achievement, areas of study, leadership, and career interests. Application deadline is October 17. Additional information is available on the AICF website or by contacting: Education Committee, Agricultural Institute of Canada Foundation, 141 Laurier Ave. West, Suite 1112, Ottawa, ON K1P 5J3.
www.aic.ca/aicf/initiatives.html

John Miller Memorial Bursary

The \$500 John Miller Memorial Bursary is awarded to an NS student in any year of any program at any agricultural university/college in Canada whose course and project work and career plans reflect an interest in the hog industry or whose application shows interest, understanding, and appreciation for Nova Scotia's hog industry. The bursary is in memory of John Miller, who served as Secretary/Manager of Pork Nova Scotia from 1983 to 1997. Applications must be submitted to the NSAC Awards Office no later than September 29.

Mine Action Student Essay Competition

Canada is committed to ensuring that the Ottawa Convention banning anti-personnel mines is universally accepted and effectively implemented. You can help offer your ideas through a student essay competition sponsored by the Canadian Department of Foreign Affairs and International Trade. The competition is open in a wide range of disciplines including social sciences, health sciences, humanities, and natural sciences. No prior knowledge of the land mines issue is required. Successful applicants will receive a \$1,000 award and an opportunity for publication of their papers. Further details and application form are available on the website. www.mines.gc.ca

National Association of United Church Men's Clubs

The National Association of United Church Men's Clubs provides a \$1,000 scholarship to a student of agriculture, fisheries, and/or food sciences who is interested in serving on the international scene. The Harry Colnett Scholarship is designed to encourage students to prepare for service in international agriculture and education, particularly in projects related to the production and distribution of food in developing countries. NSAC students who have taken the Tropical Agriculture course should make good candidates for this award. Application deadline is February 22.

New Brunswick Institute of Agrologists Scholarship

The New Brunswick Institute of Agrologists awards a \$1,000 scholarship to an NB student entering the third year of a degree program in Agriculture at a recognized Canadian institution. Students should indicate their enrollment in one of the following Agrology disciplines: Agricultural Economics and Farm Management; Plant, Animal, Soil and Environmental Sciences; Pest Management; Agrometeorology. Selection criteria include academic performance, participation in extracurricular activities, and financial need. Applications must be submitted no later than October 1 to: Registrar, New Brunswick Institute of Agrologists, Box 3479, Station B, Fredericton, NB E3A 5H2. www.nbagrologists.nb.ca/Awards.htm

New Brunswick Milk Marketing Board Scholarship

The NB Milk Marketing Board awards a \$750 scholarship to an NB resident who is enrolled in a technician or technology diploma or certification program related to agriculture and the dairy industry at a recognized agricultural or community college. Selection is based on financial need, academic achievement, participation in community activities, and future plans. Application deadline is July 3. www.nb4h.com/ewelcome/escholarship/escholarship.htm

Nova Scotia Fruit Growers' Association Scholarship

The Nova Scotia Fruit Growers' Association awards a \$500 bursary to a student entering or already in a postsecondary education program in the field of Tree Fruit Production, or a related science program, which might include Biology, Chemistry, Food Science, Plant Science, Environmental Science or Business or Agri-Business. Selection criteria include academic achievement, participation in school and community activities and interest in the tree fruit

industry.

Applications, including a resumé, university/college acceptance letter or transcript, and an essay outlining career and life goals, must be received no later than May 31 by: Education Committee, Nova Scotia Fruit Growers' Association, Blair House, 32 Main St., Kentville, NS B4N 1J5.
farmcentre.com/english/courses/ss.asp

Nova Scotia Fur Institute Scholarship

The Nova Scotia Fur Institute awards a \$2,500 scholarship to a graduate in Animal Science from NSAC who is pursuing graduate studies in fur production at an approved university. Selection will be based primarily on academic performance. Applications must be submitted no later than March 31 to: Chairman, Nova Scotia Fur Institute, Nova Scotia Agricultural College, Box 550, Truro, NS B2N 5E3

Nova Scotia Salmon Association Scholarships

The Nova Scotia Salmon Association annually awards \$500 scholarships to Nova Scotia residents who enhance or who propose to enhance by any endeavour the well-being of the Atlantic Salmon. For example an applicant may:

1. have undertaken or be in the process of undertaking scholarly pursuit related to the enhancement or conservation of the Atlantic Salmon;
2. propose to publish or have published an article or scientific paper in any field which furthers enhancement of the Atlantic Salmon;
3. promote the cause of the Atlantic Salmon by outstanding leadership or participation;
4. be engaged in endeavours of an Association which results in the conservation of the Atlantic Salmon.

The deadline for applications is March 12. Applications should be submitted to the Chair of the Scholarship Committee, NSSA, Box 470, Port Williams, NS B0P 1T0.

www.novascotiasalmon.ns.ca

Nova Scotian Institute of Science Mentorship Program

This mentorship program is aimed at university students (undergraduate and graduate) seeking guidance regarding their career opportunities in science. For more information or to arrange for a mentor, email sean.tibbetts@nrc-cnrc.gc.ca.

www.chebucto.ns.ca/Science/NSIS/index.html

Nova Scotian Institute of Science Student Science Awards

This competition is open to any graduate or undergraduate student currently enrolled in a degree program at a recognized educational institution in NS. A total of \$1,500 in prizes is available, as well as the opportunity to have work published in a peer-reviewed scientific journal. Intent-to-submit deadline is January 15; submission of article February 25. Further details are available on the website or from the NSAC Awards Office.

www.chebucto.ns.ca/Science/NSIS/index.html

Partnership for Access Awareness Nova Scotia (PAANS) Scholarships

Partnership for Access Awareness Nova Scotia (PAANS), with the assistance of the Collaborative Partnership Network (CPN), sponsors scholarships to students with disabilities who are planning to pursue further studies. To qualify, students must have a permanent disability, be a permanent resident of NS, be entering or returning to a Canadian postsecondary institution which is recognized by the Association of Universities and Colleges of Canada, and not be involved in the selection process nor related to any PAANS scholarship selection committee member. Application deadline is April 28.

accessawareness.nsnet.org

Poultry Industry Council Grad-Ship Program

The Poultry Industry Council Grad-Ship Program encourages graduates to undertake research and training at the postgraduate level at universities and research institutions in Canada. The area of study must embrace some aspect of poultry science. Grad-ship amounts are \$15,000 to \$19,000 (depending on field of study and location). Preference is given to students targeting applied research and entering their first year of an M.Sc. or Ph.D. program. Application deadline is January 31.

www.poultryindustrycouncil.ca

Prince Edward Island Potato Industry Scholarship

The PEI Potato Board offers a \$500 scholarship to PEI students studying at the graduate or undergraduate level of an agriculture degree program at any recognized Canadian agricultural institution or to students in a postgraduate degree program at a recognized Canadian university carrying out research projects related to potato production and utilization (including all disciplines e.g. biotechnology, pathology, entomology, etc). Undergraduate students must demonstrate through course work, summer employment and/or home farm background an interest in working in the potato industry. Selection criteria for potential undergraduate scholarships include academic performance, extracurricular activities and employment history. Graduate students will be considered on the basis of academic performance and relevance of the project to the improvement of the Prince Edward Island potato industry. Applications must be submitted to the NSAC Awards Office no later than September 29.

Provincial Artisans (Fredericton) Inc. Bursaries

Several annual bursaries totalling \$10,000 are being funded by Provincial Artisans (Fredericton) Inc. To qualify for these awards a student must have a disability, be entering or currently enrolled in a postsecondary institution, and be an NB resident. Deadline to apply is May 31.

www.provart.net

Alvin Rowledge Bursary Award

The Atlantic Golf Superintendents Association (AGSA) has established the \$1,000 Alvin Rowledge Bursary Award, which is available to residents of Atlantic Canada who are members in good standing of the AGSA. Its intent is both to encourage students to pursue golf course management as a career option and to support students in enhancing their knowledge and skills for the turf industry. Applicants must have a minimum of two summers/seasons work experience in golf course maintenance and be presently enrolled in a minimum of a two-year program, preferably in at least the second semester of a recognized turf grass program. Selection will be based on academic performance, financial need, and letters of reference. Applications must be submitted to the NSAC Awards Office no later than September 16.

George W. Slipp Memorial Scholarship

The Chicken Farmers of NB Marketing Board awards a \$1,000 scholarship in memory of Mr. George W. Slipp. The scholarship will be awarded annually to an NB resident who is enrolled in a postsecondary agricultural program. Selection is based on academic achievement, financial need, involvement in agriculture, and interest in the poultry or food industry. Application deadline is October 31. Applications are available at the NSAC Awards Office, or e-mail nbchicken@rogers.com.

Southern District 4-H Council Scholarship

The Southern District 4-H Club Council in New Brunswick awards a \$150 scholarship to a Southern District NB 4-H member attending a postsecondary institution. Application details are available from NB Provincial 4-H Office.

www.nb4h.com/ewelcome/escholarship/escholarship.htm

Norah Stephen Oncology Scholar Awards

Ten \$5,000 awards will be granted each spring; five of these awards will be dedicated to cancer-related research projects including basic science, cancer informatics, epidemiology, outcomes, and socio-behavioural research; the remaining five awards will be dedicated to clinical training and experience projects. Each award covers stipend support for the student for up to 14 weeks. Candidates and their supervisors are invited to complete an application outlining the project or practical experience directly related to the study of cancer. Materials, including academic transcripts, student's resumé, and supervisor's resume, are to be submitted to Cancer Care Nova Scotia by February 10.

www.cancercare.ns.ca/inside.asp?cmPageID=281

Wales Scholarship

The Wales Scholarship is a \$6,000 annual scholarship fund provided by the Province of NS to commemorate the wedding of the Prince and Princess of Wales. The annual fund is administered by the Nova Scotia/Nunavut Command of the Royal Canadian Legion. To be considered you must be a disabled Nova Scotian, starting or continuing postsecondary education in NS, and ineligible to receive assistance under the Employability Assistance for People with Disabilities (EAPD) program. For application details see the website or the NSAC Awards Office.

Application deadline is July 15 for awards for the upcoming academic year.

nsabcu.ednet.ns.ca/scholarships.shtml

Garfield Weston Merit Scholarship for Colleges Upper Year Awards

The W. Garfield Weston Foundation through the Garfield Weston Merit Scholarships for Colleges has established an Upper-year Awards program to recognize and reward the outstanding college student who is passionate about his or her field of study; curious and willing to try new things; caring about his or her family, neighbourhood and community; and truly interested in becoming involved and making a difference in society. GWMSC will provide the following scholarships for 2006/2007:

- 25 National Awards consisting of a tuition waiver, a stipend worth \$8,000, access to summer program funding, and a \$4,000 retroactive award to help defray accumulated education costs;
- up to 18 Regional Awards of \$4,000;
- up to 15 Provincial Awards of \$2,500.

To be eligible, a student must be a Canadian citizen or permanent resident, be enrolled full time, have at least one full academic year left in the academic program, be pursuing his or her remaining studies on a full-time basis, have a minimum academic average of 73%, and be nominated by the Scholarship Committee at NSAC. NSAC can nominate up to three students for national consideration. Students who are currently GWMSC National Scholars are not eligible to apply. NSAC students presently enrolled in full-time studies in the two- and three-year Technical programs (Animal Science, Agricultural Business, Environmental Horticulture, Plant Science and Animal Health) are eligible. Further information and an application form are on the website. The application deadline is March 15.

www.gwmisc.ca

George B. Whalen Memorial Scholarship

The New Brunswick Milk Marketing Board awards a \$750 scholarship in memory of George B. Whalen, who dedicated a great part of his life to the promotion of a more viable dairy industry in New Brunswick. Applicants must be NB residents enrolled in the second, third, or fourth year of study in a university degree program relating to agriculture or the dairy industry. Areas of study may include, but are not necessarily limited to, plant and animal science, agricultural engineering, veterinary medicine, agricultural economics, etc. Selection will be based on

financial need, academic performance, and involvement in community and future plans. Applications including an essay (300-500 words), two letters of recommendation, and a transcript of marks must be submitted no later than June 27 to: Scholarship Committee, NB Milk Marketing Board, Box 490, Sussex, NB E0E 1P0.

Zonta Club of Truro Bursary

The Zonta Club of the Truro, NS, area has established a \$1,000 bursary open to women of mature status who are attending or plan to attend a program of post-secondary education. A woman of mature status is defined as one who has been out of secondary school for five or more years. The bursary's purpose is to provide incentive for further education to mature women who need financial assistance. The program of further education must be of at least two semesters' duration. Selection criteria include having qualifications for admission to the chosen program, having a defined education goal, having made arrangements for looking after family/dependent responsibility, and being highly motivated to change lifestyle (volunteered in chosen field). See the NSAC Awards Office for further application details. The deadline is May 31.

VIII. OTHER SCHOLARSHIP, BURSARY, AWARD RESOURCE LIST

The following is a list of other resources that may be useful in finding information for awards:

Nova Scotia 4H Scholarships

www.gov.ns.ca/nsaf/4h/glkit/scholar.shtml

New Brunswick 4H Scholarships

www.nb4h.com/ewelcome/ewelcome.htm

Prince Edward Island 4H Scholarships

www.pei4h.pe.ca/scholarship.html

Newfoundland & Labrador 4H Scholarships

www.gov.nl.ca/agric/prog_serv/4h/4-H

Association of Universities and Colleges of Canada

www.aucc.ca/index_e.html

Agriculture scholarships across Canada

www.farmcentre.com/english/courses/ss.asp

Student Awards

www.studentawards.com

Scholarships Canada

scholarshipscanada.com

International Scholarships for Canadians

Learn about opportunities for graduate study and research abroad

www.scholarships.gc.ca/menu-en.html

Students are also encouraged to check with their local high school guidance office for scholarships and bursaries available to them. Service groups and community organizations may also sponsor awards for students pursuing postsecondary studies.

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C. Embree, B.Sc. (Guelph), M.Sc. (B.C.)

-Adjunct

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-Adjunct

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 -Adjunct
 G. A. Gagnon, B.Sc.(Eng.) (Guelph), Ph.D. (Waterloo)
 -Adjunct
 S. O. Gaul, B.Sc. (Mount St. Vincent), M.Sc. (Dalhousie), Ph.D. (Guelph)
 -Adjunct
 K. E. Glover, B.Sc.(Agr.), M.Sc. (Guelph), Ph.D. (Dalhousie)
 -Adjunct
 J. R. Guernsey, B.Sc. Hon (Carleton), M.Sc., Ph.D (Iowa)
 R. M. G. Hamilton, B.Sc.(Agr.), M.Sc.(Agr.) (McGill), Ph.D. (Western)
 -Adjunct
 M. Hodges, B.Sc. Hon, Ph.D (Ottawa)
 -Adjunct
 A. R. Jamieson, B.Sc. (Acadia), M.Sc., Ph.D. (Guelph)
 -Adjunct
 R. C. Jamieson, B.Sc., M.Sc. (Dal), Ph.D. (Guelph)
 -Adjunct
 V. D. Jeliaskov, M.Sc., Ph.D. (HIA), Ph.D. (Massachusetts)
 -Adjunct
 J. R. Kemp, B.Sc., Ph.D. (Guelph)
 -Adjunct
 S. Lall, B.Sc. (Allahabad), M.Sc., Ph.D. (Guelph)
 -Adjunct
 R. H. Loucks, M.Sc. (British Columbia), Ph.D. (Michigan)
 -Adjunct
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 -Adjunct
 K. E. MacKenzie, Ph.D. (Cornell)
 -Adjunct
 J. MacLeod, B.Sc.(Agr.) (Macdonald), M.Sc. (McGill), Ph.D. (Cornell)
 -Adjunct
 K. B. MacRae, B.Ed. (British Columbia), M.Sc., Ph.D. (Oregon)
 -Adjunct
 K. E. MacKenzie, Ph.D. (Cornell)
 -Adjunct
 L. J. Mikitzel, B.Sc.(Agr.), M.Sc. (Guelph), Ph.D. (Alberta)
 -Adjunct
 J. Morton, B.Sc.(Agr.), M.Sc. (Guelph)
 -Adjunct
 A. Murphy, B.Sc. (Memorial), M.Sc. (Guelph)
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 -Adjunct
 G. T. Patterson, B.Sc. (Alberta), M.Sc. (Guelph)
 -Adjunct
 D. Pink, B.Sc. (St. F.X.), Ph.D. (British Columbia)
 -Adjunct
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 -Adjunct
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 -Adjunct
 J. Y. Raggett, M.Ed. (Greenwich)
 -Adjunct
 B. Rathgeber, B.Sc.(Agr.) (Saskatchewan), M.Sc. (Arkansas),
 Ph.D. (Saskatchewan)
 -Agriculture and Agrifood Canada Research Chair, Poultry Products
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 -Adjunct
 V. Rodd, B.Sc. (UPEI), M.Sc. (Manitoba)
 -Affiliated Researcher
 N. W. Ross, B.Sc., Ph.D. (McGill)
 -Adjunct
 F. G. Silversides, B.S.A. (Saskatchewan), M.S. (Massachusetts),
 Ph.D. (Saskatchewan)
 -Adjunct
 R. Singh, B.Sc.(Agr.), M.Sc.(Agr.) (Agra Univ.), Ph.D. (N.Dakota)
 -Adjunct
 A. V. Sturz, B.Sc. (Newcastle-u-Tyne), Ph.D. (Manchester)
 -Adjunct
 G. C. C. Tai, B.Sc., M.Sc. (Taiwan), Ph.D. (Saskatchewan)
 -Adjunct
 W. G. Thomas, B.Sc. (British Columbia), M.Sc. (Dalhousie)
 -Adjunct
 P. R. Warman, B.Sc.(Agr.) (Rutgers), M.Sc., Ph.D. (Guelph)
 -Adjunct
 J. M. Wright, B.Sc. (Mount Allison), Ph.D. (Memorial)
 -Honorary Research Associate
 B. Zebarth, B.Sc.(Agr.), M.Sc. (Guelph), Ph.D. (Saskatchewan)
 -Adjunct

APPENDIX I: NEW COURSE NUMBERS TO OLD COURSE NUMBERS

In 2004 the course numbering system was changed. This appendix lists the courses that were available at that time: new course number/course title, followed by the old course number/course title and course designations. Designations include: (A) for Agriculture Courses, (H) for Humanities Courses, (AS) for Animal Science Courses, (PS) for Plant Science Courses, (PDN) for Plant Science Production Courses. These designations will assist students in determining program requirements as described in the program syllabi.

NEW COURSE	OLD COURSE	DESIGNATION
AGRI1000: Agricultural Ecosystems	IN100: Agricultural Ecosystems	(A) DE
AGRI1001: Food Security	IN101: Food Security	(A) DE
AGRI1002: Transition to Organic Agriculture	IN202: Transition to Organic Agriculture	(A) DE

AGRI1003: Agriculture Today	H150: Agriculture Today	(A)
AGRI3000: Agrometeorology	MP330: Agrometeorology	
AGRI4000: Contemporary Issues in Agriculture	IN400: Issues in Agriculture	(A)
AGRI5210: Special Topics in Environmental Microbiology	AG521: Special Topics in Environmental Microbiology	
AGRI5220: Special Topics in Weed Science	AG522: Special Topics in Weed Science	
AGRI5240: Special Topics in Environmental Impact	AG524: Special Topics in Environmental Impact	
AGRI5250: Soil Microbiology	AG525: Soil Microbiology	
AGRI5260: Special Topics in Plant Pathology	AG526: Special Topics in Plant Pathology	
AGRI5270: Economic Entomology	AG527: Economic Entomology	
AGRI5310: Special Topics in Applied Ethology	AG531: Special Topics in Applied Ethology	
AGRI5320: Special Topics in Animal Nutrition	AG532: Special Topics in Animal Nutrition	
AGRI5340: Special Topics in Animal Physiology	AG534: Special Topics in Animal Physiology	
AGRI5350: Animal Research Methods	AG535: Animal Research Methods	
AGRI5360: Protein Nutrition	AG536: Protein Nutrition	
AGRI5370: Special Topics in Animal Breeding and Genetics	AG537: Special Topics in Animal Breeding and Genetics	
AGRI5380: Quantitative Genetics	AG538: Quantitative Genetics	
AGRI5390: Molecular Genetic Analysis of Populations	AG539: Molecular Genetic Analysis of Populations	
AGRI5410: Special Topics in Soil Fertility	AG541: Special Topics in Soil Fertility	
AGRI5430: Special Topics in Environmental Analysis	AG543: Special Topics in Environmental Analysis	

AGRI5440: Organic Environmental Analysis	AG544: Organic Environmental Analysis	
AGRI5450: Environmental Soil Chemistry	AG545: Environmental Soil Chemistry	
AGRI5460: Special Topics in Soil and Water Management	AG546: Special Topics in Soil and Water Management	
AGRI5470: Special Topics in Analytical Instrumentation for Researchers	AG547: Special Topics in Analytical Instrumentation for Researchers	
AGRI5510: Special Topics in Plant Breeding	AG551: Special Topics in Plant Breeding	
AGRI5520: Plant Breeding Methods	AG552: Plant Breeding Methods	
AGRI5530: Nitrogen in Crop Production	AG553: Nitrogen in Crop Production	
AGRI5540: Special Topics in Crop Physiology	AG554: Special Topics in Crop Physiology	(A)
AGRI5560: Advanced Crop Physiology	AG556: Advanced Crop Physiology	
AGRI5570: Special Topics in Agricultural Biotechnology	AG557: Special Topics in Agricultural Biotechnology	
AGRI5580: Plant Biotechnology 1	AG558: Plant Biotechnology cross-referenced as PS475	
AGRI5610: Special Topics in Animal Product Technology	AG561: Special Topics in Animal Product Technology	
AGRI5620: Ruminant Digestive Physiology and Metabolism	AG562: Ruminant Digestive Physiology and Metabolism	
AGRI5630: Intermediate Statistical Methods	AG563: Intermediate Statistical Methods	
AGRI5700: Communication Skills and Graduate Seminar	AG570: Communication Skills and Graduate Seminar	
AGRI5705: Module Course II	AG573: Module Course II	
AGRI5710: Module Course I	AG571: Module Course I	
AGRI5720: Applied Statistics and Experimental Design	AG572: Applied Statistics and Experimental Design for Agriculture	
AGRI5740: Advanced Studies in Food	AG574: Advanced Studies in Food	

Chemistry	Chemistry	
AGRI9000: Graduate Thesis	AG900: Graduate Thesis	
AGRN0200: Potato Production	PS49: Potato Production	DE
AGRN0201: Cropping Systems I: Cereal-Based Systems	PS52: Cropping Systems I: Cereal-Based Systems	
AGRN0202: Cropping Systems II: Forage-Based Systems	PS56: Cropping Systems II: Forage-Based Systems	
AGRN1000: Organic Field Crop Management	PS202: Organic Field Crop Management DE	(A, PS) DE
AGRN3000: Forage Crops	PS300: Forage Crops	(A, PDN)
AGRN3001: Grain Production	PS305: Grain Production	(A, PDN)
AGRN3002: Potato Production	PS325: Potato Production	(A, PDN) DE
AGRN4000: Agronomy	PS405: Agronomy	(A, PS)
AHVT0100: Animal Nursing—Clinical Practices I	AS60: Animal Nursing—Clinical Practices I	
AHVT0101: Animal Nursing—Clinical Practices II	AS61: Animal Nursing—Clinical Practices II	
AHVT0200: Animal Nursing—Clinical Practices III	AS62: Animal Nursing—Clinical Practices III	
AHVT0201: Animal Nursing—Clinical Practices IV	AS63: Animal Nursing—Clinical Practices IV	
AHVT0202: Principles of Disease	AS24: Principles of Disease	
AHVT0203: Principles of Pharmacology	AS36: Principles of Pharmacology	
AHVT0204: Laboratory Animal Care I	AS37: Laboratory Animal Care I	
AHVT0205: Veterinary Laboratory Techniques I	AS39: Veterinary Laboratory Techniques I	
AHVT0206: Support Services in Veterinary Practice	AS40: Support Services in Veterinary Practice	
AHVT0207: Veterinary Laboratory	AS49: Veterinary Laboratory	

Techniques II

AHVT0301: Practicum—Animal Health Technology

AHVT0302: Animal Nursing—Clinical Practices V

AHVT0303: Veterinary Laboratory Techniques III

AHVT0304: Animal Health Technology Project

AHVT0305: Laboratory Animal Care II

ANSC0100: The Farm Workplace I

ANSC0101: Farm Animal Production and Practices I

ANSC0102: Farm Animal Production and Practices II

ANSC0103: Farm Animal Production I

ANSC0104: Farm Animal Biology I

ANSC0105: Farm Animal Breeding

ANSC0106: The Farm Workplace II

ANSC0107: Farm Animal Biology and Practices I

ANSC0108: Farm Animal Biology and Practices II

ANSC0109: Farm Animal Production II

ANSC0110: Farm Animal Biology II

ANSC0111: Project-Seminar

ANSC0200: Farm Animal Production III

ANSC0201: Farm Animal Production III Practices

Techniques II

AS99: Practicum—Animal Health Technology

AS64: Animal Nursing—Clinical Practices V

AS59: Veterinary Laboratory Techniques III

AS95: Animal Health Technology Project

AS71: Laboratory Animal Care II

AS12: The Farm Workplace I

AS13: Farm Animal Production and Practices I

AS14: Farm Animal Production and Practices II

AS16: Farm Animal Production I

AS18: Farm Animal Biology I

AS20: Farm Animal Breeding

AS22 : The Farm Workplace II

AS26: Farm Animal Biology and Practices I

AS27: Farm Animal Biology and Practices II

AS66: Farm Animal Production II

AS68: Farm Animal Biology II

AS65: Project-Seminar

AS76: Farm Animal Production III

AS77: Farm Animal Production III Practices

ANSC0202: Farm Animal Production IV	AS86: Farm Animal Production IV	
ANSC0203: Farm Animal Production IV Practices	AS87: Farm Animal Production IV Practices	
ANSC0300: Technology Project	AS90: Technology Project	
ANSC1000: Organic Livestock Production	AS202: Organic Livestock Production	(A, AS) DE
ANSC2000: Animal Agriculture I	AS200: Animal Agriculture I	(A, AS)
ANSC2001: Animal Agriculture II	AS201: Animal Agriculture II	(A, AS)
ANSC2002: The Horse: Its Biology and Use	AS240: The Horse: Its Biology and Use	(A, AS)
ANSC2003: Companion Animal Behaviour	AS241: Introduction to Applied Ethology	(AS)
ANSC3000: Animal Breeding	AS310: Animal Breeding	(A, AS)
ANSC3001: Animal Health	AS320: Animal Health	(A, AS)
ANSC3002: Domestic Animal Behaviour	AS341: Domestic Animal Behavior	(A, AS)
ANSC3003: Eggs and Dairy Products	AS345: Eggs and Dairy Products	(A, AS)
ANSC3004: Meat Science	AS350: Meat Science	(A, AS)
ANSC3005: Animal Welfare	new course	(A, AS)
ANSC4000: Topics in Animal Production I	AS490: Topics in Animal Production I	(A, AS)
ANSC4001: Topics in Animal Production I I	AS492: Topics in Animal Production II	(A, AS)
ANSC4003: Avian Production Systems	new course	(AS)
AQUA2000: Introduction to Aquaculture	AS210: Introduction to Aquaculture	(A, AS)
AQUA3000: Fish Health	AS370: Fish Health	(A, AS)
AQUA4000: Finfish Production	AS440: Finfish Production	(AS)
AQUA4001: Shellfish Production	AS445: Shellfish Production	(AS)
ARTS2000: Nature's Image: A Survey of Landscape Art	H230: Nature's Image: A Survey of Landscape Art	(H)
BIOL0100: Animal Anatomy	B15: Animal Anatomy	

BIOL0101: Plant Pathology	B40: Plant Pathology	
BIOL0102: Plant Physiology and Stress Management	PS45/B41: Plant Physiology and Stress Management	
BIOL0103: Weed Science	B46: Weed Science	
BIOL0200: Entomology	B43: Entomology	
BIOL1000: Botany	B100: Botany	
BIOL1001: Zoology	B110: Zoology	
BIOL2000: Cell Biology	B200: Cell Biology	
BIOL2001: Cell Biology Laboratory	B201: Cell Biology Laboratory	
BIOL2002: Plant Physiology	B260: Plant Physiology	
BIOL2003: Systematic Botany	B265: Systematic Botany	
BIOL2004: Structural Botany	B270: Structural Botany	
BIOL2005: Principles of Plant Pathology	B300: Principles of Plant Pathology	(A)
BIOL2006: Mammalian Physiology	AS230: Physiological Systems of Farm Animals	(AS)
BIOL3000: General Entomology	B320: General Entomology	(A)
BIOL3001: Ecology	B330: Ecology	
BIOL3002: Weed Science	B335: Weed Science	(A)
BIOL3003: Comparative Vertebrate Anatomy	B340: Comparative Vertebrate Anatomy	
BIOL3004: Environmental Physiology	AS335: Environmental Physiology	(A, AS)
BIOL3005: Physiology of Aquatic Animals	AS380: Physiology of Aquatic Animals	(A, AS)
BIOL3006: Aquatic Ecology	AS375: Aquatic Ecology	(AS)
BIOL3007: Insects and Diseases of Landscape Plants	PS390: Insects and Diseases of Landscape Plants	(PS)
BIOL3008: Growth, Reproduction and Lactation	AS330: Growth, Reproduction and Lactation	(A, AS)

BIOL4000: Avian Biology	AS460: Avian Biology	(A, AS)
BIOL4001: Animal Cell Culture	AS470: Animal Cell Culture	(AS)
BIOL4002: Conservation Biology	B435: Conservation Biology	
CHEM0050: Preparatory Chemistry	CS89: Preparatory Chemistry	
CHEM0100: Agricultural Chemistry	CS14: Agricultural Chemistry	
CHEM1000: General Chemistry I	CS101: General Chemistry I	
CHEM1001: General Chemistry II	CS102: General Chemistry II	
CHEM2000: Organic Chemistry I	CS201: Organic Chemistry I	
CHEM2001: Organic Chemistry II	CS202: Organic Chemistry II	
CHEM2002: Analytical Chemistry I	CS212: Analytical Chemistry I	
CHEM2003: Food Chemistry I	CS275: Food Chemistry I	(A)
CHEM2004: Introductory Food Chemistry	CS276: Introductory Food Chemistry	(A)
CHEM2005: Biochemistry I	no longer offered	
CHEM3000: Biochemistry	CS301: Biochemistry	
CHEM3001: Biochemical Pathways	CS302: Biochemical Pathways	
CHEM3002: Radiotracers in Agriculture	CS310: Radiotracers in Agriculture	(A)
CHEM3003: Advanced Integrated Chemistry Laboratory I	CS318: Advanced Integrated Chemistry Laboratory I	
CHEM3004: Instrumental Analytical Chemistry II	CS341: Instrumental Analytical Chemistry II	
CHEM3005: Instrumental Analytical Chemistry III	CS342: Instrumental Analytical Chemistry III	
CHEM3006: Mammalian Biochemistry	CS360: Mammalian Biochemistry	
CHEM3007: Food Chemistry II	CS375: Food Chemistry II	(A)
CHEM3008: Intermediate Food Chemistry	CS376: Intermediate Food Chemistry	(A)
CHEM3009: Environmental Chemistry	ES312: Environmental Chemistry	
CHEM4000: Advanced Integrated	CS436: Advanced Integrated	

Chemistry Laboratory II	Chemistry Laboratory II	
CMMT0100: Veterinary Practice Communication	H45: Technical Communications	
CMMT0101: Communication Skills	H60: Communication Techniques	
CMMT3000: Communication Theory and Skills	new course	(H)
CSCI0100: Computational Methods	MP14: Computational Methods	
CSCI1000: Computer Methods	MP222: Computer Methods	
CSCI2000: Computer Science	MP220: Computer Science	
CSCI3000: Data Structures and Numerical Methods	MP336: Data Structures and Numerical Methods	
ECON0100: Introductory Microeconomics	EB13: Microeconomics	
ECON0101: Introductory Macroeconomics	EB12: Macroeconomics	
ECON1000: Principles of Microeconomics	EB110: Agricultural Economics	(A) DE
ECON1001: Principles of Macroeconomics	EB255: Macroeconomics I	
ECON2000: Intermediate Microeconomics	EB200: Microeconomics I	
ECON2001: Intermediate Macroeconomics	EB305: Macroeconomics II	
ECON2002: Production Economics	EB220: Production Economics	(A)
ECON3000: Mathematical Economics	EB260: Mathematical Economics	
ECON3002: Agricultural and Food Policy	EB320: Agricultural and Food Policy I	(A)
ECON3003: Mathematical Programming	EB325: Operations Research	
ECON3004: Agricultural Markets and Prices	EB330: Agricultural Markets and Prices	(A)
ECON3005: Econometrics	EB360: Econometrics	
ECON4001: Agri-food Policy Analysis	EB419: Agri-food Policy Analysis	(A)
ECON4002: Topics in Advanced Farm Management	EB441: Topics in Advanced Farm Management	(A)

ENGL0100: Technical Writing	H10: Technical Writing	
ENGL1000: Composition	H113: Composition	(H)
ENGL1001: The Novel	H101: The English and American Novel	(H)
ENGL1002: Nature in English and American Literature	H102: Nature in English and American Literature	(H)
ENGL3000: Literature of Atlantic Canada	H310: Literature of Atlantic Canada	(H)
ENGN0100: Surveying	AE14: Surveying	
ENGN0101: Horticultural Engineering	AE38: Horticultural Engineering	
ENGN0102: Soil and Water Resources Management	AE46: Soil and Water Resources Management	
ENGN0103: Agricultural Power Systems	AE52: Agricultural Power Systems	
ENGN1000: Computer Aided Graphics and Projection	AE101: Computer Aided Graphics and Projection	
ENGN1001: Design and Graphics	AE102: Design and Graphics	
ENGN1002: Statics	AE110: Statics	
ENGN1003: Properties and Mechanics of Materials	AE120: Properties and Mechanics of Materials	
ENGN2000: Environmental Impacts and Resource Management	AE200: Environmental Impacts and Resource Management	(A)
ENGN2001: Agricultural Machinery	AE202: Agricultural Machinery	
ENGN2002: Introduction to Systems Analysis	AE204: Introduction to Systems Analysis	
ENGN2003: Food Processing Systems	AE207: Food Processing Systems	(A)
ENGN2004: Aquacultural Environment	AE215: Aquatic Environment	(A)
ENGN2005: Dynamics	AE230: Dynamics	
ENGN2006: Surveying	AE260: Surveying	
ENGN3000: Electric Circuits	AE300: Electric Circuits	

ENGN3001: Engineering Measurements and Controls	AE305: Engineering Measurements and Controls	(A)
ENGN3002: Thermodynamics	AE310: Thermodynamics	
ENGN3003: Technology for Precision Agriculture	AE311: Technology for Precision Agriculture	
ENGN3004: Digital Circuits	AE312: Digital Circuits	
ENGN3005: Fundamentals of Chemical Engineering	AE314: Fundamentals of Chemical Engineering	
ENGN3006: Strength of Materials	AE315: Strength of Materials	
ENGN3007: Structures and Their Environment	AE320: Structures and Their Environment	(A)
ENGN3008: Circuit Analysis	AE332: Circuit Analysis	
ENGN3009: Materials Handling and Processing	AE335: Materials Handling and Processing	(A)
ENGN3010: Soil and Water	AE340: Soil and Water	(A)
ENGN3011: Fluid Mechanics	AE350: Fluid Mechanics	
ENGN3012: Principles of Agricultural Machinery	AE355: Principles of Agricultural Machinery	(A)
ENGN3013: Aquacultural Engineering	AE360: Aquatic Engineering	(A)
ENGN3015: Irrigation and Drainage	AE370: Irrigation and Drainage	
ENGN3016: Engineering Economy	AE380: Engineering Economy	
ENGN3017: Design Project	AE206: Design Project	
ENGN4000: Water and Water Quality Management	AE410: Water and Water Quality Management	(A)
ENGN4001: Water Quality Issues	AE412: Water Quality Issues	(A)
ENGN4002: Management of Mechanized Agricultural Systems	AE420: Management of Mechanized Agricultural Systems	(A)
ENGN4003: Senior Design Project for Engineers I	AE440: Senior Design Project for Engineers I	

ENVS1000: Composting and Compost Use	ES202: Basic Composting Skills	(A) DE
ENVS2000: Environmental Studies I	ES200: Environmental Studies I	(A)
ENVS2001: Environmental Studies II	ES201: Environmental Studies II	(A)
ENVS3000: Environmental Impact	B365: Environmental Impact	
ENVS3001: Environmental Sampling and Analysis	ES330: Environmental Sampling and Analysis	
ENVS3002: Waste Treatment and Site Remediation	ES333: Waste Reduction and Site Remediation	(A)
ENVS3003: Environmental Studies Field Course	ES350: Environmental Studies Field Course	
ENVS3004: Principles of Pest Management	B385: Principles of Pest Management	(A)
ENVS4000: Pesticides in Agriculture	B405: Pesticides in Agriculture	(A)
ENVS4001: Economic Plant Pathology	B406: Economic Plant Pathology	(A)
ENVS4002: Economic Entomology	B425: Economic Entomology	(A)
ENVS4003: Applied Weed Science	B445: Applied Weed Science	(A)
ENVS4004: The Science of Composting & Its Application	CS457: The Science of Composting & Its Application	(A)
EXTE3000: Extension Education in the Rural Community	H320: Extension Education in the Rural Community	(H)
EXTE3001: Leadership Development and the Social Action Process	H321: Leadership Development and the Social Action Process	(H)
FOOD3000: Food Quality Assurance	CS380: Food Quality Assurance	(A)
FREN1000: French Language I	H130: Introductory French	(H)
FREN1001: French Language II	H131: French Language II	(H)
GENE2000: Genetics	B240: Genetics I	
GENE3000: An Introduction to Molecular Genetics	B370: An Introduction to Molecular Genetics	
GENE3001: Population and Quantitative Genetics	B375: Population and Quantitative Genetics	

GENE4000: Molecular Applications to Animal Production	AS465: Molecular Applications to Animal Production	(AS)
GEOG1000: Introductory Human Geography	H170: Introductory Human Geography	(H)
GEOG3000: Rural Geography	H370: Rural Geography	(H)
GEOL2000: Introduction to Geology	CS230: Introduction to Geology	
HIST1000: Introduction to Canadian History I: 1000-1867	new course	(H)
HIST1001: Introduction to Canadian History II: 1867-Present	new course	(H)
HIST3000: Rural History	H301: Rural History	(H)
HORT0100: Landscape Plants I	ES60: Landscape Plants I	
HORT0101: Landscape Plants II	ES61: Landscape Plants II	
HORT0102: Turfgrass Production and Management	PS47: Turfgrass Production and Management	
HORT0103: Landscape Horticulture I	PS50: Landscape Horticulture I	
HORT0200: Nursery Crop Production	PS38: Nursery Crop Production	
HORT0201: Greenhouse Crop Management	PS39: Greenhouse Crop Management	
HORT0202: Small Fruit Crops	PS43: Small Fruit Crops	
HORT0203: Tree Fruit Crops	PS44: Tree Fruit Crops	
HORT0204: Landscape Plants III	ES62: Landscape Plants III	
HORT0205: Residential Landscape Design and Construction	PS51: Residential Landscape Design and Construction	
HORT0206: Landscape Techniques	PS70: Landscape Techniques	
HORT0207: Arboriculture	PS71: Arboriculture	
HORT0208: Landscape Maintenance	PS72: Landscape Maintenance	
HORT0209: Landscape Horticulture II	PS73: Landscape Horticulture II	
HORT0210: Landscape Design and	PS74: Landscape Design and	

Construction	Construction	
HORT2000: Vegetable Production	PS200: Vegetable Production	(A, PDN) DE
HORT2001: Principles of Organic Horticulture	PS210: Principles of Organic Horticultural Crop Production	(A, PDN) DE
HORT2002: Landscape Horticulture Work Program I	PS270: Landscape Horticulture Work Program I	(PS)
HORT2003: The British Garden	PS290: The British Garden	(PS)
HORT2004: Introduction to Viticulture	PS280: Introduction to Viticulture	(PS)
HORT3000: Environmental Processes and Natural Landscape Functions	ES370: Environmental Processes and Natural Landscape Functions	
HORT3001: Landscape Project Management	ES380: Landscape Project Management	
HORT3002: Tree Fruit Crops	PS315: Tree Fruit Crops	(A, PDN)
HORT3003: Small Fruit Crops	PS320: Small Fruit Crops	(A, PDN)
HORT3004: Greenhouse Crop Production and Floriculture	PS330: Greenhouse Crop Production and Floriculture	(A, PDN)
HORT3005: Landscape Plant Production	PS335: Landscape Plant Production	(A, PDN)
HORT3006: Landscape Horticulture Work Program II	PS370: Landscape Horticulture Work Program II	(PS)
HORT3007: Environmental Horticulture Project I	PS360: Landscape Horticulture Project I	(PS)
HORT4000: Urban Tree Management	ES470: Urban Tree Management	
HORT4001: Horticulture	PS410: Horticulture	(A, PS)
HORT4002: Management of Specialized Turf	PS440: Management of Specialized Turf	(PS)
HORT4004: Environmental Horticulture Project II	PS460: Landscape Horticulture Project II	(PS)
INTD2000: Food Systems in the Tropics	IN205: Food Systems in the Tropics	(A)
INTD2001: Agricultural Systems of Central	IN206: Agricultural Systems of	

Europe

INTD3000: Tropical Agriculture

MATH0050: Functions

MATH1000: Calculus and Analytic
Geometry I

MATH1001: Calculus and Analytic
Geometry II

MATH2000: Multivariable Calculus

MATH2001: Differential Equations

MATH3000: Applied Linear Algebra

MATH4000: Agricultural Modelling

MGMT0100: Accounting

MGMT0101: Applied Accounting and
Taxation

MGMT0102: Agricultural Marketing

MGMT0103: Business Law

MGMT0200: Applied Farm Management

MGMT0201: Business Project

MGMT0300: Farm Project

MGMT0301: Practicum—Farming
Technology

MGMT0302: Economics and Business
Technology Project

MGMT1000: Small Business
Entrepreneurship

MGMT2000: Human Resource
Management

MGMT2001: Introduction to Business Law

Central Europe

PS355: Tropical Agriculture

MP85: Functions

MP100: Calculus and Analytic
Geometry I

MP105: Calculus and Analytic
Geometry II

MP230: Multivariable Calculus

MP236: Differential Equations

MP335: Applied Linear Algebra

MP460: Agricultural Modelling

EB10: Accounting

EB11: Applied Accounting and
Taxation

EB40: Marketing Practices

EB41: Business Law

EB42: Applied Farm Management

EB65: Business Project

EB72: Farm Project

EB95: Practicum—Farming
Technology

EB90: Technology Project

EB225: Introduction to Small
Business Entrepreneurship

H140: Personnel Management

EB230: Introduction to Business Law

(A, PS)

MGMT2002: Marketing	EB335: Business Marketing	
MGMT2003: Farm Management	EB340: Farm Management I	(A)
MGMT2004: Financial Accounting I	EB210: Financial Accounting I	
MGMT2005: Financial Accounting II	EB215: Financial Accounting II	
MGMT3000: Management Accounting	EB315: Management Accounting	
MGMT3001: International Marketing	EB430: International Marketing	
MGMT3002: Consumer Behaviour	EB435: Consumer Behaviour and Food Marketing	
MGMT4000: Strategic Management	EB410: Strategic Management in Agribusiness	
MGMT4001: Advanced Entrepreneurship	EB445: Agribusiness Entrepreneurship	(A)
MICR2000: Microbiology	B225: Microbiology	
MICR3000: Food Microbiology	B355: Food Microbiology	(A)
MICR4000: Soil Microbiology	B400: Soil Microbiology	(A)
NUTR3000: Animal Nutrition	AS305: Animal Nutrition	(AS)
NUTR3001: Applied Animal Nutrition	AS325: Applied Animal Nutrition	(A, AS)
NUTR3002: Fish Nutrition	AS365: Fish Nutrition	(A, AS)
NUTR4000: Ruminant Digestive Physiology and Metabolism	AS475: Ruminant Digestive Physiology and Metabolism	(AS)
PHIL3000: Environmental and Agricultural Ethics	H350: Environmental and Agricultural Ethics	(H)
PHYS0050: Introductory Physics	MP90: Introductory Physics	
PHYS1000: Physics for the Life Sciences I	MP150: Biophysics I	
PHYS1001: Physics for the Life Sciences II	MP250: Biophysics II: Perception	
PHYS1002: Physics I	MP140: Physics I	
PHYS1003: Physics II	MP145: Physics II	

PLSC0100: Utilization of Plant Resources	PS35: Utilization of Plant Resources	
PLSC0200: Plant Propagation	PS55: Plant Propagation	
PLSC0201: Technology Project	PS90: Technology Project	
PLSC0202: Plant Science Techniques	PS99: Plant Science Techniques	
PLSC0203: Plant Products Physiology	PS76: Plant Products Physiology	
PLSC1000: Farm Woodlot Management	PS147: Farm Woodlot Management	(A, PDN)
PLSC2000: Specialty Crops	PS211: Specialty Crops	(PDN)
PLSC2001: Theory and Practice of Plant Propagation	new course	(PS)
PLSC4000: Plant Breeding	PS400: Plant Breeding	(A, PS)
PLSC4001: Crop Adaptation	PS415: Crop Adaptation	(A, PS)
POLS1000: Introduction to Political Science	new course	(H)
POLS1001: Structure and Function of Government	new course	(H)
RESM4000: Bio-Environmental Systems Management Project-Seminar I	AE449: Project-Seminar I	(A)
RESM4001: Bio-Environmental. Systems Management Project-Seminar II	AE450: Project-Seminar II	(A)
RESM4002: Animal Science Project-Seminar I	AS449: Project-Seminar I	(A)
RESM4003: Animal Science Project-Seminar II	AS450: Project-Seminar II	(A)
RESM4004: Research Methods for Economics and Business	EB425: Research Methods	(A)
RESM4005: Project-Seminar for Economics and Business	EB450: Project-Seminar	(A)
RESM4006: Environmental Sciences Project-Seminar I	ES449: Project-Seminar I	(A)
RESM4007: Environmental Sciences	ES450: Project-Seminar II	(A)

Project-Seminar II

RESM4008: Plant Science Project-Seminar I	PS449: Plant Science Project-Seminar I	(A, PS)
RESM4009: Plant Science Project-Seminar II	PS450: Plant Science Project-Seminar II	(A, PS)
RESM4010: Aquaculture Project-Seminar I	AS449: Project-Seminar I	(A)
RESM4011: Aquaculture Project-Seminar II	AS450: Project-Seminar II	(A)
SOCI1000: Introductory Sociology	H160: Introductory Sociology	(H)
SOCI1001: Introductory Sociology II	new course	(H)
SOCI3000: Rural Sociology	H360: Rural Sociology	(H)
SOIL0100: Principles of Soil Science	CS12: Principles of Soil Science	
SOIL0200: Soil Management	CS13: Soil Management	
SOIL2000: Introduction to Soil Science	CS220: Introduction to Soil Science	(A)
SOIL3000: Soil Fertility	CS320: Soil Fertility	(A)
SOIL3001: Soil Conservation in Agriculture	CS345: Soil Conservation in Agriculture	(A)
SOIL4000: Environmental Soil Chemistry	CS440: Environmental Soil Chemistry	
SPAN1000: Basic Spanish I	H135: Basic Spanish I	(H)
SPAN1001: Basic Spanish II	H136: Basic Spanish II	(H)
SPEC2000: Topics in Economics and Business Management	EB221: Topics in Economics and Business Management	(A)
SPEC4000: Special Topics in Animal Science or Aquaculture	AS421: Special Topics in Animal Science or Aquaculture	(AS)
SPEC4001: Special Topics in Agribiology I	B421: Special Topics in Agribiology I	(A)
SPEC4002: Special Topics in Agribiology II	B422: Special Topics in Agribiology II	(A)
SPEC4003: Special Topics in Chemistry and Soil Science I	CS415: Special Topics in Chemistry and Soil Science I	(A)
SPEC4004: Special Topics in Chemistry and	CS425: Special Topics in Chemistry	(A)

Soil Science II	and Soil Science II	
SPEC4005: Special Topics in Agricultural Economics and Business I	EB421: Special Topics in Agricultural Economics and Business I	(A)
SPEC4006: Special Topics in Agricultural Economics and Business II	EB422: Special Topics in Agricultural Economics and Business II	(A)
SPEC4007: Special Topics in Environmental Studies I	ES401: Special Topics in Environmental Studies I	(A)
SPEC4008: Special Topics in Environmental Studies II	ES402: Special Topics in Environmental Studies II	(A)
SPEC4009: Special Topics in Rural Studies	H403: Special Topics in Humanities	(H)
SPEC4010: Special Topics in Plant Science I	PS421: Special Topics in Plant Science I	(A, PS)
SPEC4011: Special Topics in Plant Science II	PS422: Special Topics in Plant Science II	(A, PS)
SPEC4012: Directed Studies in Agricultural Engineering	AE415: Directed Studies in Agricultural Engineering	(A)
STAT2000: Introduction to Statistics	MP210: Introduction to Statistics	
STAT2001: Probability and Statistics for Engineering	MP212: Probability and Statistics for Engineering	
STAT3000: Introduction to Planned Studies: Surveys and Experiments	MP211: Introduction to Planned Studies: Surveys and Experiments	
STAT4000: Intermediate Statistical Methods	MP420: Intermediate Statistical Methods	

APPENDIX II: OLD COURSE NUMBERS TO NEW COURSE NUMBERS

This appendix lists the old course number and course title, followed by the new course number/course title and the course designations. Designations include: (A) for Agriculture courses, (H) for Humanities courses, (AS) for Animal Science courses, (PS) for Plant Science courses, (PDN) for Plant Science Production courses, and DE for Distance Education courses. These designations will assist students in determining program requirements as described in the program syllabi.

OLD COURSE	NEW COURSE	DESIGNATION
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AE14: Surveying	ENGN0100: Surveying	
AE28: Wood Construction Techniques	no longer offered	
AE38: Horticultural Engineering	ENGN0101: Horticultural Engineering	
AE46: Soil and Water Resources Management	ENGN0102: Soil and Water Resources Management	
AE52: Agricultural Power Systems	ENGN0103: Agricultural Power Systems	
AE101: Computer Aided Graphics and Projection	ENGN1000: Computer Aided Graphics and Projection	
AE102: Design and Graphics	ENGN1001: Design and Graphics	
AE110: Statics	ENGN1002: Statics	
AE120: Properties and Mechanics of Materials	ENGN1003: Properties and Mechanics of Materials	
AE200: Environmental Impacts and Resource Management	ENGN2000: Environmental Impacts and Resource Management	(A)
AE202: Agricultural Machinery	ENGN2001: Agricultural Machinery	
AE204: Introduction to Systems Analysis	ENGN2002: Introduction to Systems Analysis	
AE206: Design Project	ENGN3017: Design Project	
AE207: Food Processing Systems	ENGN2003: Food Processing Systems	(A)
AE215: Aquatic Environment	ENGN2004: Aquacultural Environment	(A)
AE230: Dynamics	ENGN2005: Dynamics	
AE260: Surveying	ENGN2006: Surveying	
AE300: Electric Circuits	ENGN3000: Electric Circuits	
AE305: Engineering Measurements and Controls	ENGN3001: Engineering Measurements and Controls	(A)
AE310: Thermodynamics	ENGN3002: Thermodynamics	
AE311: Technology for Precision Agriculture	ENGN3003: Technology for Precision Agriculture	

AE312: Digital Circuits	ENGN3004: Digital Circuits	
AE314: Fundamentals of Chemical Engineering	ENGN3005: Fundamentals of Chemical Engineering	
AE315: Strength of Materials	ENGN3006: Strength of Materials	
AE320: Structures and Their Environment	ENGN3007: Structures and Their Environment	(A)
AE332: Circuit Analysis	ENGN3008: Circuit Analysis	
AE335: Materials Handling and Processing	ENGN3009: Materials Handling and Processing	(A)
AE340: Soil and Water	ENGN3010: Soil and Water	(A)
AE350: Fluid Mechanics	ENGN3011: Fluid Mechanics	
AE355: Principles of Agricultural Machinery	ENGN3012: Principles of Agricultural Machinery	(A)
AE360: Aquatic Engineering	ENGN3013: Aquacultural Engineering	(A)
AE370: Irrigation and Drainage	ENGN3015: Irrigation and Drainage	
AE380: Engineering Economy	ENGN3016: Engineering Economy	
AE410: Water and Water Quality Management	ENGN4000: Water and Water Quality Management	(A)
AE412: Water Quality Issues	ENGN4001: Water Quality Issues	(A)
AE415: Directed Studies in Agricultural Engineering	SPEC4012: Directed Studies in Agricultural Engineering	(A)
AE420: Management of Mechanized Agricultural Systems	ENGN4002: Management of Mechanized Agricultural Systems	(A)
AE440: Senior Design Project for Engineers I	ENGN4003: Senior Design Project for Engineers I	
AE449: Project-Seminar I	RESM4000: Bio-Environmental Systems Management Project-Seminar I	(A)
AE450: Project-Seminar II	RESM4001: Bio-Environmental Systems Management Project-Seminar II	(A)
AG521: Special Topics in Environmental	AGRI5210: Special Topics in	

Microbiology	Environmental Microbiology
AG522: Special Topics in Weed Science	AGRI5220: Special Topics in Weed Science
AG524: Special Topics in Environmental Impact	AGRI5240: Special Topics in Environmental Impact
AG525: Soil Microbiology	AGRI5250: Soil Microbiology
AG526: Special Topics in Plant Pathology	AGRI5260: Special Topics in Plant Pathology
AG527: Economic Entomology	AGRI5270: Economic Entomology
AG531: Special Topics in Applied Ethology	AGRI5310: Special Topics in Applied Ethology
AG532: Special Topics in Animal Nutrition	AGRI5320: Special Topics in Animal Nutrition
AG534: Special Topics in Animal Physiology	AGRI5340: Special Topics in Animal Physiology
AG535: Animal Research Methods	AGRI5350: Animal Research Methods
AG536: Protein Nutrition	AGRI5360: Protein Nutrition
AG537: Special Topics in Animal Breeding and Genetics	AGRI5370: Special Topics in Animal Breeding and Genetics
AG538: Quantitative Genetics	AGRI5380: Quantitative Genetics
AG539: Molecular Genetic Analysis of Populations	AGRI5390: Molecular Genetic Analysis of Populations
AG541: Special Topics in Soil Fertility	AGRI5410: Special Topics in Soil Fertility
AG543: Special Topics in Environmental Analysis	AGRI5430: Special Topics in Environmental Analysis
AG544: Organic Environmental Analysis	AGRI5440: Organic Environmental Analysis
AG545: Environmental Soil Chemistry	AGRI5450: Environmental Soil Chemistry
AG546: Special Topics in Soil and Water Management	AGRI5460: Special Topics in Soil and Water Management

AG547: Special Topics in Analytical Instrumentation for Researchers	AGRI5470: Special Topics in Analytical Instrumentation for Researchers	
AG551: Special Topics in Plant Breeding	AGRI5510: Special Topics in Plant Breeding	
AG552: Plant Breeding Methods	AGRI5520: Plant Breeding Methods	
AG553: Nitrogen in Crop Production	AGRI5530: Nitrogen in Crop Production	
AG554: Special Topics in Crop Physiology	AGRI5540: Special Topics in Crop Physiology	(A)
AG556: Advanced Crop Physiology	AGRI5560: Advanced Crop Physiology	
AG557: Special Topics in Agricultural Biotechnology	AGRI5570: Special Topics in Agricultural Biotechnology	
AG558: Plant Biotechnology cross-referenced as PS475	AGRI5580: Plant Biotechnology I	
AG561: Special Topics in Animal Product Technology	AGRI5610: Special Topics in Animal Product Technology	
AG562: Ruminant Digestive Physiology and Metabolism	AGRI5620: Ruminant Digestive Physiology and Metabolism	
AG563: Intermediate Statistical Methods	AGRI5630: Intermediate Statistical Methods	
AG570: Communication Skills and Graduate Seminar	AGRI5700: Communication Skills and Graduate Seminar	
AG571: Module Course I	AGRI5710: Module Course I	
AG572: Applied Statistics and Experimental Design for Agriculture	AGRI5720: Applied Statistics and Experimental Design	
AG573: Module Course II	AGRI5705: Module Course II	
AG574: Advanced Studies in Food Chemistry	AGRI5740: Advanced Studies in Food Chemistry	
AG900: Graduate Thesis	AGRI9000: Graduate Thesis	
AS12: The Farm Workplace I	ANSC0100: The Farm Workplace I	
AS13: Farm Animal Production and	ANSC0101: Farm Animal Production and	

Practices I

AS14: Farm Animal Production and Practices II

AS16: Farm Animal Production I

AS18: Farm Animal Biology I

AS20: Farm Animal Breeding

AS22 : The Farm Workplace II

AS24: Principles of Disease

AS25: Animal Nursing and Clinical Procedures I

AS26: Farm Animal Biology and Practices I

AS27: Farm Animal Biology and Practices II

AS36: Principles of Pharmacology

AS37: Laboratory Animal Care I

AS39: Veterinary Laboratory Techniques I

AS40: Support Services in Veterinary Practice

AS46: Animal Nursing and Clinical Procedures II

AS49: Veterinary Laboratory Techniques II

AS59: Veterinary Laboratory Techniques III

AS60: Animal Nursing—Clinical Practices I

AS61: Animal Nursing—Clinical Practices II

Practices I

ANSC0102: Farm Animal Production and Practices II

ANSC0103: Farm Animal Production I

ANSC0104: Farm Animal Biology I

ANSC0105: Farm Animal Breeding

ANSC0106: The Farm Workplace II

AHVT0202: Principles of Disease

no longer offered

ANSC0107: Farm Animal Biology and Practices I

ANSC0108: Farm Animal Biology and Practices II

AHVT0203: Principles of Pharmacology

AHVT0204: Laboratory Animal Care I

AHVT0205: Veterinary Laboratory Techniques I

AHVT0206: Support Services in Veterinary Practice

no longer offered

AHVT0207: Veterinary Laboratory Techniques II

AHVT0303: Veterinary Laboratory Techniques III

AHVT0100: Animal Nursing—Clinical Practices I

AHVT0101: Animal Nursing—Clinical Practices II

AS62: Animal Nursing—Clinical Practices III	AHVT0200: Animal Nursing—Clinical Practices III	
AS63: Animal Nursing—Clinical Practices IV	AHVT0201: Animal Nursing—Clinical Practices IV	
AS64: Animal Nursing—Clinical Practices V	AHVT0302: Animal Nursing—Clinical Practices V	
AS65: Project-Seminar	ANSC0111: Project-Seminar	
AS66: Farm Animal Production II	ANSC0109: Farm Animal Production II	
AS68: Farm Animal Biology II	ANSC0110: Farm Animal Biology II	
AS71: Laboratory Animal Care II	AHVT0305: Laboratory Animal Care II	
AS76: Farm Animal Production III	ANSC0200: Farm Animal Production III	
AS77: Farm Animal Production III Practices	ANSC0201: Farm Animal Production III Practices	
AS86: Farm Animal Production IV	ANSC0202: Farm Animal Production IV	
AS87: Farm Animal Production IV Practices	ANSC0203: Farm Animal Production IV Practices	
AS90: Technology Project	ANSC0300: Technology Project	
AS95: Animal Health Technology Project	AHVT0304: Animal Health Technology Project	
AS99: Practicum—Animal Health Technology	AHVT0301: Practicum—Animal Health Technology	
AS200: Animal Agriculture I	ANSC2000: Animal Agriculture I	(A, AS)
AS201: Animal Agriculture II	ANSC2001: Animal Agriculture II	(A, AS)
AS202: Organic Livestock Production	ANSC1000: Organic Livestock Production	(A, AS) DE
AS210: Introduction to Aquaculture	AQUA2000: Introduction to Aquaculture	(A, AS)
AS230: Physiological Systems of Farm Animals	BIOL2006: Mammalian Physiology	(AS)
AS240: The Horse: Its Biology and Use	ANSC2002: The Horse: Its Biology and Use	(A, AS)

AS241: Introduction to Applied Ethology	ANSC2003: Companion Animal Behaviour (AS)	
AS305: Animal Nutrition	NUTR3000: Animal Nutrition	(AS)
AS310: Animal Breeding	ANSC3000: Animal Breeding	(A, AS)
AS320: Animal Health	ANSC3001: Animal Health	(A, AS)
AS325: Applied Animal Nutrition	NUTR3001: Applied Animal Nutrition	(A, AS)
AS330: Growth, Reproduction and Lactation	BIOL3008: Growth, Reproduction and Lactation	(A, AS)
AS335: Environmental Physiology	BIOL3004: Environmental Physiology	(A, AS)
AS341: Domestic Animal Behavior	ANSC3002: Domestic Animal Behaviour	(A, AS)
AS345: Eggs and Dairy Products	ANSC3003: Eggs and Dairy Products	(A, AS)
AS350: Meat Science	ANSC3004: Meat Science	(A, AS)
AS365: Fish Nutrition	NUTR3002: Fish Nutrition	(A, AS)
AS370: Fish Health	AQUA3000: Fish Health	(A, AS)
AS375: Aquatic Ecology	BIOL3006: Aquatic Ecology	(AS)
AS380: Physiology of Aquatic Animals	BIOL3005: Physiology of Aquatic Animals	(A, AS)
AS421: Special Topics in Animal Science or Aquaculture	SPEC4000: Special Topics in Animal Science or Aquaculture	(AS)
AS440: Finfish Production	AQUA4000: Finfish Production	(AS)
AS445: Shellfish Production	AQUA4001: Shellfish Production	(AS)
AS449: Project-Seminar I	RESM4002: Animal Science Project-Seminar I	(A)
AS449: Project-Seminar I	RESM4010: Aquaculture Project-Seminar I	(A)
AS450: Project-Seminar II	RESM4003: Animal Science Project-Seminar II	(A)
AS450: Project-Seminar II	RESM4011: Aquaculture Project-Seminar II	(A)

AS460: Avian Biology	BIOL4000: Avian Biology	(A, AS)
AS465: Molecular Applications to Animal Production	GENE4000: Molecular Applications to Animal Production	(AS)
AS470: Animal Cell Culture	BIOL4001: Animal Cell Culture	(AS)
AS475: Ruminant Digestive Physiology and Metabolism	NUTR4000: Ruminant Digestive Physiology and Metabolism	(AS)
AS490: Topics in Animal Production I	ANSC4000: Topics in Animal Production I	(A, AS)
AS492: Topics in Animal Production II	ANSC4001: Topics in Animal Production II	(A, AS)
B15: Animal Anatomy	BIOL0100: Animal Anatomy	
B40: Plant Pathology	BIOL0101: Plant Pathology	
B41: Plant Physiology	no longer offered	
B43: Entomology	BIOL0200: Entomology	
B46: Weed Science	BIOL0103: Weed Science	
B100: Botany	BIOL1000: Botany	
B110: Zoology	BIOL1001: Zoology	
B200: Cell Biology	BIOL2000: Cell Biology	
B201: Cell Biology Laboratory	BIOL2001:: Cell Biology Laboratory	
B225: Microbiology	MICR2000: Microbiology	
B240: Genetics I	GENE2000: Genetics	
B260: Plant Physiology	BIOL2002: Plant Physiology	
B265: Systematic Botany	BIOL2003: Systematic Botany	
B270: Structural Botany	BIOL2004: Structural Botany	
B300: Principles of Plant Pathology	BIOL2005: Principles of Plant Pathology	(A)
B320: General Entomology	BIOL3000: General Entomology	(A)
B330: Ecology	BIOL3001: Ecology	
B335: Weed Science	BIOL3002: Weed Science	(A)

B340: Comparative Vertebrate Anatomy	BIOL3003: Comparative Vertebrate Anatomy	
B355: Food Microbiology	MICR3000: Food Microbiology	(A)
B365: Environmental Impact	ENVS3000: Environmental Impact	
B370: An Introduction to Molecular Genetics	GENE3000: An Introduction to Molecular Genetics	
B375: Population and Quantitative Genetics	GENE3001: Population and Quantitative Genetics	
B385: Principles of Pest Management	ENVS3004: Principles of Pest Management	(A)
B400: Soil Microbiology	MICR4000: Soil Microbiology	(A)
B405: Pesticides in Agriculture	ENVS4000: Pesticides in Agriculture	(A)
B406: Economic Plant Pathology	ENVS4001: Economic Plant Pathology	(A)
B421: Special Topics in Agribiology I	SPEC4001: Special Topics in Agribiology I	(A)
B422: Special Topics in Agribiology II	SPEC4002: Special Topics in Agribiology II	(A)
B425: Economic Entomology	ENVS4002: Economic Entomology	(A)
B435: Conservation Biology	BIOL4002: Conservation Biology	
B445: Applied Weed Science	ENVS4003: Applied Weed Science	(A)
CS12: Principles of Soil Science	SOIL0100: Principles of Soil Science	
CS13: Soil Management	SOIL0200: Soil Management	
CS14: Agricultural Chemistry	CHEM0100: Agricultural Chemistry	
CS89: Preparatory Chemistry	CHEM0050: Preparatory Chemistry	
CS101: General Chemistry I	CHEM1000: General Chemistry I	
CS102: General Chemistry II	CHEM1001: General Chemistry II	
CS110: Organic Chemistry	no longer offered	
CS200: Biochemistry I	no longer offered	
CS201: Organic Chemistry I	CHEM2000: Organic Chemistry I	

CS202: Organic Chemistry II	CHEM2001: Organic Chemistry II	
CS205: Biochemistry II	no longer offered	
CS212: Analytical Chemistry I	CHEM2002: Analytical Chemistry I	
CS220: Introduction to Soil Science	SOIL2000: Introduction to Soil Science	(A)
CS230: Introduction to Geology	GEOL2000: Introduction to Geology	
CS275: Food Chemistry I	CHEM2003: Food Chemistry I	(A)
CS276: Introductory Food Chemistry	CHEM2004: Introductory Food Chemistry	(A)
CS301: Biochemistry	CHEM3000: Biochemistry	
CS302: Biochemical Pathways	CHEM3001: Biochemical Pathways	
CS310: Radiotracers in Agriculture	CHEM3002: Radiotracers in Agriculture	(A)
CS316: Advanced Organic Chemistry	no longer offered	
CS318: Advanced Integrated Chemistry Laboratory I	CHEM3003: Advanced Integrated Chemistry Laboratory I	
CS320: Soil Fertility	SOIL3000: Soil Fertility	(A)
CS341: Instrumental Analytical Chemistry II	CHEM3004: Instrumental Analytical Chemistry II	
CS342: Instrumental Analytical Chemistry III	CHEM3005: Instrumental Analytical Chemistry III	
CS345: Soil Conservation in Agriculture	SOIL3001: Soil Conservation in Agriculture	(A)
CS360: Mammalian Biochemistry	CHEM3006: Mammalian Biochemistry	
CS375: Food Chemistry II	CHEM3007: Food Chemistry II	(A)
CS376: Intermediate Food Chemistry	CHEM3008: Intermediate Food Chemistry	(A)
CS380: Food Quality Assurance	FOOD3000: Food Quality Assurance	(A)
CS415: Special Topics in Chemistry and Soil Science I	SPEC4003: Special Topics in Chemistry and Soil Science I	(A)
CS425: Special Topics in Chemistry and	SPEC4004: Special Topics in Chemistry	(A)

Soil Science II	and Soil Science II	
CS436: Advanced Integrated Chemistry Laboratory II	CHEM4000: Advanced Integrated Chemistry Laboratory II	
CS440: Environmental Soil Chemistry	SOIL4000: Environmental Soil Chemistry	
CS457: The Science of Composting & Its Application	ENVS4004: The Science of Composting & Its Application	(A)
EB10: Accounting	MGMT0100: Accounting	
EB11: Applied Accounting and Taxation	MGMT0101: Applied Accounting and Taxation	
EB12: Macroeconomics	ECON0101: Introductory Macroeconomics	
EB13: Microeconomics	ECON0100: Introductory Microeconomics	
EB40: Marketing Practices	MGMT0102: Agricultural Marketing	
EB41: Business Law	MGMT0103: Business Law	
EB42: Applied Farm Management	MGMT0200: Applied Farm Management	
EB65: Business Project	MGMT0201: Business Project	
EB72: Farm Project	MGMT0300: Farm Project	
EB90: Technology Project	MGMT0302: Economics and Business Technology Project	
EB95: Practicum—Farming Technology	MGMT0301: Practicum—Farming Technology	
EB110: Agricultural Economics	ECON1000: Principles of Microeconomics (A) DE	
EB200: Microeconomics I	ECON2000: Intermediate Microeconomics	
EB205: Microeconomics II	no longer offered	
EB210: Financial Accounting I	MGMT2004: Financial Accounting I	
EB215: Financial Accounting II	MGMT2005: Financial Accounting II	
EB220: Production Economics	ECON2002: Production Economics	(A)

EB221: Topics in Economics and Business Management	SPEC2000: Topics in Economics and Business Management	(A)
EB225: Introduction to Small Business Entrepreneurship	MGMT1000: Small Business Entrepreneurship	
EB230: Introduction to Business Law	MGMT2001: Introduction to Business Law	
EB255: Macroeconomics I	ECON1001: Principles of Macroeconomics	
EB260: Mathematical Economics	ECON3000: Mathematical Economics	
EB300: Environmental and Resource Economic Policy	no longer offered	
EB305: Macroeconomics II	ECON2001: Intermediate Macroeconomics	
EB315: Management Accounting	MGMT3000: Management Accounting	
EB320: Agricultural and Food Policy I	ECON3002: Agricultural and Food Policy	(A)
EB325: Operations Research	ECON3003: Mathematical Programming	
EB330: Agricultural Markets and Prices	ECON3004: Agricultural Markets and Prices	(A)
EB335: Business Marketing	MGMT2002: Marketing	
EB340: Farm Management I	MGMT2003: Farm Management	(A)
EB360: Econometrics	ECON3005: Econometrics	
EB400: Resource and Environmental Economics	no longer offered	
EB410: Strategic Management in Agribusiness	MGMT4000: Strategic Management	
EB419: Agri-food Policy Analysis	ECON4001: Agri-food Policy Analysis	(A)
EB421: Special Topics in Agricultural Economics and Business I	SPEC4005: Special Topics in Agricultural Economics and Business I	(A)
EB422: Special Topics in Agricultural Economics and Business II	SPEC4006: Special Topics in Agricultural Economics and Business II	(A)

EB425: Research Methods	RESM4004: Research Methods for Economics and Business	(A)
EB430: International Marketing	MGMT3001: International Marketing	
EB435: Consumer Behaviour and Food Marketing	MGMT3002: Consumer Behaviour	
EB441: Topics in Advanced Farm Management	ECON4002: Topics in Advanced Farm Management	(A)
EB445: Agribusiness Entrepreneurship	MGMT4001: Advanced Entrepreneurship	(A)
EB450: Project-Seminar	RESM4005: Project-Seminar for Economics and Business	(A)
ES60: Landscape Plants I	HORT0100: Landscape Plants I	
ES61: Landscape Plants II	HORT0101: Landscape Plants II	
ES62: Landscape Plants III	HORT0204: Landscape Plants III	
ES200: Environmental Studies I	ENVS2000: Environmental Studies I	(A)
ES201: Environmental Studies II	ENVS2001: Environmental Studies II	(A)
ES202: Basic Composting Skills	ENVS1000: Composting and Compost Use (A) DE	
ES312: Environmental Chemistry	CHEM3009: Environmental Chemistry	
ES330: Environmental Sampling and Analysis	ENVS3001: Environmental Sampling and Analysis	
ES333: Waste Reduction and Site Remediation	ENVS3002: Waste Treatment and Site Remediation	(A)
ES350: Environmental Studies Field Course	ENVS3003: Environmental Studies Field Course	
ES370: Environmental Processes and Natural Landscape Functions	HORT3000: Environmental Processes and Natural Landscape Functions	
ES380: Landscape Project Management	HORT3001: Landscape Project Management	
ES401: Special Topics in Environmental Studies I	SPEC4007: Special Topics in Environmental Studies I	(A)

ES402: Special Topics in Environmental Studies II	SPEC4008: Special Topics in Environmental Studies II	(A)
ES449: Project-Seminar I	RESM4006: Environmental Sciences Project-Seminar I	(A)
ES450: Project-Seminar II	RESM4007: Environmental Sciences Project-Seminar II	(A)
ES470: Urban Tree Management	HORT4000: Urban Tree Management	
H10: Technical Writing	ENGL0100: Technical Writing	
H45: Technical Communications	CMMT0100: Veterinary Practice Communication	
H60: Communication Techniques	CMMT0101: Communication Skills	
H101: The English and American Novel	ENGL1001: The Novel	(H)
H102: Nature in English and American Literature	ENGL1002: Nature in English and American Literature	(H)
H113: Composition	ENGL1000: Composition	(H)
H130: Introductory French	FREN1000: French Language I	(H)
H131: French Language II	FREN1001: French Language II	(H)
H135: Basic Spanish I	SPAN1000: Basic Spanish I	(H)
H136: Basic Spanish II	SPAN1001: Basic Spanish II	(H)
H140: Personnel Management	MGMT2000: Human Resource Management	
H150: Agriculture Today	AGRI1003: Agriculture Today	(A)
H160: Introductory Sociology	SOCI1000: Introductory Sociology	(H)
H170: Introductory Human Geography	GEOG1000: Introductory Human Geography	(H)
H230: Nature's Image: A Survey of Landscape Art	ARTS2000: Nature's Image: A Survey of Landscape Art	(H)
H301: Rural History	HIST3000: Rural History	(H)
H310: Literature of Atlantic Canada	ENGL3000: Literature of Atlantic Canada	(H)

H320: Extension Education in the Rural Community	EXTE3000: Extension Education in the Rural Community	(H)
H321: Leadership Development and the Social Action Process	EXTE3001: Leadership Development and the Social Action Process	(H)
H325: Technology in Agricultural Communications	no longer offered	(H)
H350: Environmental and Agricultural Ethics	PHIL3000: Environmental and Agricultural Ethics	(H)
H360: Rural Sociology	SOCI3000: Rural Sociology	(H)
H370: Rural Geography	GEOG3000: Rural Geography	(H)
H401: Humanities Research Seminar I	no longer offered	(H)
H402: Humanities Research Seminar II	no longer offered	(H)
H403: Special Topics in Humanities	SPEC4009: Special Topics in Rural Studies	(H)
IN100: Agricultural Ecosystems	AGRI1000: Agricultural Ecosystems	(A) DE
IN101: Food Security	AGRI1001: Food Security	(A) DE
IN202: Transition to Organic Agriculture	AGRI1002 Transition to Organic Agriculture	(A) DE
IN205: Food Systems in the Tropics	INTD2000: Food Systems in the Tropics	(A)
IN206: Agricultural Systems of Central Europe	INTD2001: Agricultural Systems of Central Europe	
IN400: Issues in Agriculture	AGRI4000: Contemporary Issues in Agriculture	(A)
MP14: Computational Methods	CSCI0100: Computational Methods	
MP70: Basic Statistics	no longer offered	
MP85: Functions	MATH0050: Functions	
MP90: Introductory Physics	PHYS0050: Introductory Physics	
MP100: Calculus and Analytic Geometry I	MATH1000: Calculus and Analytic Geometry I	
MP105: Calculus and Analytic	MATH1001: Calculus and Analytic	

Geometry II	Geometry II
MP140: Physics I	PHYS1002: Physics I
MP145: Physics II	PHYS1003: Physics II
MP150: Biophysics I	PHYS1000: Physics for the Life Sciences I
MP210: Introduction to Statistics	STAT2000: Introduction to Statistics
MP211: Introduction to Planned Studies: Surveys and Experiments	STAT3000: Introduction to Planned Studies: Surveys and Experiments
MP212: Probability and Statistics for Engineering	STAT2001: Probability and Statistics for Engineering
MP220: Computer Science	CSCI2000: Computer Science
MP222: Computer Methods	CSCI1000: Computer Methods
MP230: Multivariable Calculus	MATH2000: Multivariable Calculus
MP236: Differential Equations	MATH2001: Differential Equations
MP250: Biophysics II: Perception	PHYS1001: Physics for the Life Sciences II
MP330: Agrometeorology	AGRI3000: Agrometeorology
MP335: Applied Linear Algebra	MATH3000: Applied Linear Algebra
MP336: Data Structures and Numerical Methods	CSCI3000: Data Structures and Numerical Methods
MP420: Intermediate Statistical Methods	STAT4000: Intermediate Statistical Methods
MP460: Agricultural Modelling	MATH4000: Agricultural Modelling
PS35: Utilization of Plant Resources	PLSC0100: Utilization of Plant Resources
PS38: Nursery Crop Production	HORT0200: Nursery Crop Production
PS39: Greenhouse Crop Management	HORT0201: Greenhouse Crop Management
PS43: Small Fruit Crops	HORT0202: Small Fruit Crops
PS44: Tree Fruit Crops	HORT0203: Tree Fruit Crops
PS45: Plant Physiology and Stress	BIOL0102: Plant Physiology and Stress

Management	Management	
PS47: Turfgrass Production and Management	HORT0102: Turfgrass Production and Management	
PS49: Potato Production	AGRN0200: Potato Production	DE
PS50: Landscape Horticulture I	HORT0103: Landscape Horticulture I	
PS51: Residential Landscape Design and Construction	HORT0205: Residential Landscape Design and Construction	
PS52: Cropping Systems I: Cereal-Based Systems	AGRN0201: Cropping Systems I: Cereal-Based Systems	
PS55: Plant Propagation	PLSC0200: Plant Propagation	
PS56: Cropping Systems II: Forage-Based Systems	AGRN0202: Cropping Systems II: Forage-Based Systems	
PS62: Landscape Plant Materials III	no longer offered	
PS70: Landscape Techniques	HORT0206: Landscape Techniques	
PS71: Arboriculture	HORT0207: Arboriculture	
PS72: Landscape Maintenance	HORT0208: Landscape Maintenance	
PS73: Landscape Horticulture II	HORT0209: Landscape Horticulture II	
PS74: Landscape Design and Construction	HORT0210: Landscape Design and Construction	
PS76: Plant Products Physiology	PLSC0203: Plant Products Physiology	
PS90: Technology Project	PLSC0201: Technology Project	
PS99: Plant Science Techniques	PLSC0202: Plant Science Techniques	
PS147: Farm Woodlot Management	PLSC1000: Farm Woodlot Management	(A, PDN)
PS200: Vegetable Production	HORT2000: Vegetable Production	(A, PDN) DE
PS202: Organic Field Crop Management	AGRN1000: Organic Field Crop Management	(A, PS) DE
PS210: Principles of Organic Horticultural Crop Production	HORT2001: Principles of Organic Horticulture	(A, PDN) DE

PS211: Specialty Crops	PLSC2000: Specialty Crops	(PDN)
PS270: Landscape Horticulture Work Program I	HORT2002: Landscape Horticulture Work Program I	(PS)
PS280: Introduction to Viticulture	HORT2004: Introduction to Viticulture	(PS)
PS290: The British Garden	HORT2003: The British Garden	(PS)
PS300: Forage Crops	AGRN3000: Forage Crops	(A, PDN)
PS305: Grain Production	AGRN3001: Grain Production	(A, PDN)
PS315: Tree Fruit Crops	HORT3002: Tree Fruit Crops	(A, PDN)
PS320: Small Fruit Crops	HORT3003: Small Fruit Crops	(A, PDN)
PS325: Potato Production	AGRN3002: Potato Production	(A, PDN) DE
PS330: Greenhouse Crop Production and Floriculture	HORT3004: Greenhouse Crop Production and Floriculture	(A, PDN)
PS335: Landscape Plant Production	HORT3005: Landscape Plant Production	(A, PDN)
PS355: Tropical Agriculture	INTD3000: Tropical Agriculture	(A, PS)
PS360: Landscape Horticulture Project I	HORT3007: Environmental Horticulture Project I	(PS)
PS370: Landscape Horticulture Work Program II	HORT3006: Landscape Horticulture Work Program II	(PS)
PS390: Insects and Diseases of Landscape Plants	BIOL3007: Insects and Diseases of Landscape Plants	(PS)
PS400: Plant Breeding	PLSC4000: Plant Breeding	(A, PS)
PS405: Agronomy	AGRN4000: Agronomy	(A, PS)
PS410: Horticulture	HORT4001: Horticulture	(A, PS)
PS415: Crop Adaptation	PLSC4001: Crop Adaptation	(A, PS)
PS421: Special Topics in Plant Science I	SPEC4010: Special Topics in Plant Science I	(A, PS)
PS422: Special Topics in Plant Science II	SPEC4011: Special Topics in Plant Science II	(A, PS)

PS440: Management of Specialized Turf	HORT4002: Management of Specialized Turf	(PS)
PS449: Plant Science Project-Seminar I	RESM4008: Plant Science Project-Seminar I	(A, PS)
PS450: Plant Science Project-Seminar II	RESM4009: Plant Science Project-Seminar II	(A, PS)
PS460: Landscape Horticulture Project II	HORT4004: Environmental Horticulture Project II	(PS)

APPENDIX III: NSAC COURSES ELIGIBLE FOR ADMISSION TO ATLANTIC VETERINARY COLLEGE
(from 2004/2005 Calendar)

This list was compiled to help applicants choose courses that meet both degree and DVM admissions requirements (Atlantic Veterinary College, PEI). Please note that courses must also meet other prerequisite criteria as listed in the Supplementary Application to AVC, including “Rigor”, “Age of Credits”, “Science Courses”, “Animal Biology Courses”, “Graduate Courses”, and “Repeated Courses”.

Course#	Old Course #	Course Name
Biology		
BIOL1000	B100	Botany
BIOL1001	B110	Zoology
BIOL2001	B201	Cell Biology
BIOL2006	AS230	Mammalian Physiology
BIOL3003	B340	Comparative Vertebrate Anatomy
BIOL3004	AS335	Environmental Physiology
BIOL3005	AS380	Physiology of Aquatic Animals
BIOL3008	AS330	Growth, Reproduction & Lactation
BIOL4000	AS460	Avian Biology
BIOL4001	AS470	Animal Cell Culture
GENE2000	B240	Genetics I

GENE3000	B370	An Introduction to Molecular Genetics
GENE3001	B375	Population & Quantitative Genetics
GENE4000	AS465	Molecular Applications to Animal Production
MICR2000	B225	Microbiology
MICR3000	B355	Food Microbiology
MICR4000	B400	Soil Microbiology

Microbiology

MICR2000	B225	Microbiology
MICR3000	B355	Food Microbiology
MICR4000	B400	Soil Microbiology

Genetics

GENE2000	B240	Genetics I
GENE3000	B370	An Introduction to Molecular Genetics
GENE3001	B375	Population & Quantitative Genetics
GENE4000	AS465	Molecular Application to Animal Production

Chemistry

CHEM1000	CS101	General Chemistry I
CHEM1001	CS102	General Chemistry II
CHEM2000	CS201	Organic Chemistry I
CHEM2002	CS212	Analytical Chemistry I
CHEM2003	CS275	Food Chemistry I
CHEM2005	CS200	Biochemistry I
CHEM3000	CS301	Biochemistry
CHEM3001	CS302	Biochemical Pathways
CHEM3003	CS318	Advanced Integrated Chemistry Lab

CHEM3004	CS341	Instrumental Analytical Chemistry II
CHEM3005	CS342	Instrumental Analytical Chemistry III
CHEM3007	CS375	Food Chemistry II

**Organic
Chemistry**

CHEM2000	CS201	Organic Chemistry I
CHEM2003	CS275	Food Chemistry I
CHEM3007	CS375	Food Chemistry II

**Humanities/Soc
Science**

AGRI1001	IN101	Food Security
AGRI1003	H150	Agriculture Today
ARTS2000	H230	Natures Image: A Survey of Landscape Art
CMMT3000		Communication Theory & Skills
ECON1000	EB110	Principles of Microeconomics
ECON1001	EB255	Principles of Macroeconomics
ECON2000	EB200	Intermediate Microeconomics
ECON2001	EB305	Intermediate Macroeconomics
ECON2002	EB220	Production Economics
ECON3001		Environmental Economics
ECON3002	EB320	Agricultural & Food Policy
ECON4000		Advanced Microeconomics
ECON4001	EB419	Agri-food Policy Analysis
ECON4003		Resource Economics
ENGL1000	H113	Composition
ENGL1001	H101	The Novel

ENGL1002	H102	Nature in English & American Literature
ENGL3000	H310	Literature of Atlantic Canada
EXTE3001	H321	Leadership Development & Social Action Process
FREN1000	H130	French Language I
FREN1001	H131	French Language II
GEOG1000		Intro Human Geography
GEOG3000	H370	Rural Geography
HIST1000		Introduction to Canadian History I
HIST1001		Introduction to Canadian History II
HIST3000	H301	Rural History
PHIL3000		Environmental & Agricultural Ethics
POLS1000		Intro to Political Science
POLS1001		Structure & Function of Government
SOCI1000	H160	Introductory Sociology
SOCI1001		Introductory Sociology II
SOCI3000	H360	Rural Sociology
SPAN1000	H135	Basic Spanish I
SPAN1001	H136	Basic Spanish II

Physics

ENGN1002	AE110	Statics
ENGN2005	AE230	Dynamics
ENGN3000	AE300	Electric Circuits
ENGN3002	AE310	Thermodynamics
ENGN3011	AE350	Fluid Mechanics
PHYS1000	MP150	Physics for Life Sciences I

PHYS1001	MP250	Physics for Life Sciences II
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PHYS1002	MP140	Physics I
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PHYS1003	MP145	Physics II
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Math

ECON3000	EB260	Mathematical Economics
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ECON3005	EB360	Econometrics
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MATH1000	MP100	Calculus & Analytical Geometry I
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MATH1001	MP105	Calculus & Analytical Geometry II
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MATH2000	MP230	Multivariable Calculus
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MATH2001	MP236	Differential Equations
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MATH3000	MP335	Applied Linear Algebra
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MATH4000	MP460	Agricultural Modelling
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STAT2000	MP210	Introduction to Statistics
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STAT2001	MP212	Probability & Statistics for Engineering
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STAT3000	MP211	Introduction to Planned Studies: Surveys & Experiments
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STAT4000	MP420	Intermediate Statistical Methods
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Statistics

ECON3005	EB360	Econometrics
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STAT2000	MP210	Introduction to Statistics
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STAT3000	MP211	Introduction to Planned Studies: Surveys & Experiments
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STAT4000	MP420	Intermediate Statistical Methods
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**English
Composition**

ENGL1000	H113	Composition
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English

CMMT3000		Communication Theory & Skills
ENGL1000	H113	Composition
ENGL1001	H101	The Novel
ENGL1002	H102	Nature in English & American Literature
ENGL3000	H310	Literature of Atlantic Canada