

# 2011-2012 Diploma Program Calendar

The information published in this Diploma Calendar outlines the rules, regulations, curricula, programs and fees for the 2011-2012 academic year, including the Summer Semester 2011, the Fall Semester 2011 and the Winter Semester 2012.

For your convenience the Diploma Calendar is available in PDF format.

If you wish to link to the Diploma Calendar please refer to the Linking Guidelines.

Campus d'Alfred

Kemptville Campus

Guelph Campus

Ridgetown Campus

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# Disclaimer

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## University of Guelph 2010

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The information published in this Diploma Calendar outlines the rules, regulations, curricula, programs and fees for the 2010-2011 academic year, including the Summer Semester 2010, the Fall Semester 2010 and the Winter Semester 2011.

The University reserves the right to change without notice any information contained in this calendar, including fees, any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs. The publication of information in this calendar does not bind the University to the provision of courses, programs, schedules of studies, or facilities as listed herein.

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## **Introduction**

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### **Collection, Use and Disclosure of Personal Information**

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Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) <http://www.e-laws.gov.on.ca/index.html>. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Training, Colleges and Universities, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see <http://www.uoguelph.ca/registrar/registrar/index.cfm?index>.

### **Statistics Canada - Notification of Disclosure**

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For further information, please see Statistics Canada's web site at <http://www.statcan.ca>.

### **Address for University Communication**

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Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

#### **Email Address**

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The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly. See Section I --Statement of Students' Academic Responsibilities for more information.

#### **Home Address**

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Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through the Registrar's office.

#### **Name Changes**

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The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, his/her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

### **Student Confidentiality and Release of Student Information Policy Excerpt**

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The University undertakes to protect the privacy of each student and the confidentiality of his or her record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work.

Complete policy at <http://www.uoguelph.ca/policies>.



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## X. Associate Diploma Programs

### Program Information

As a result of an enhanced contract agreement between the University of Guelph and the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) effective April 1, 1997, the Agricultural Colleges at Alfred (French Language), Kemptville and Ridgeway now operate as Campuses of the University of Guelph. Two-year diploma programs are offered at the Ontario Agricultural College, University of Guelph and at the three regional Campuses with financial support from OMAFRA.

The diploma programs will continue to offer a blend of the theoretical and practical courses designed to prepare graduates to assume a broad range of positions in the agricultural and food industries. All programs offer courses in applied science, business management, production and marketing. Specific diploma programs offered at more than one Campus have standardized core curricula to ensure common standards are maintained. Common core courses are supplemented with electives at all Campuses with specific regional specializations. Students may elect to spend a semester (or more) at a different location to access special electives, or to access degree courses at the University.

All programs are offered on a standardized schedule at all four locations. The programs run for two semesters beginning in September until late April followed by a one semester summer break. Second year classes resume in the following semester and students graduate in the Spring with an Associate Diploma.

### ASSOCIATE DIPLOMA PROGRAMS AND LOCATIONS

A: Alfred (French Language); G: Guelph; K: Kemptville; R:Ridgeway.

	A	G	K	R
Agriculture	X		X	X
Agri-Food Leadership			X	
Environmental Management	X			X
Food, Nutrition and Risk Management	X		X	
Horticulture			X	X
Turfgrass Management		X		
Veterinary Technology				X

### Associate Diploma in Agriculture

This program provides a practical, skills-oriented approach to agricultural production systems and affords its students an opportunity to improve their business and managerial skills. Diploma in Agriculture students integrate practical experience in agricultural production with the technical and scientific information that is required to successfully operate modern food production enterprises. Business management, computer skills, and problem solving activities provide students with the abilities they require as self-employed managers of production systems, and as technical/sales employees of agri-business firms, commodity boards, and other agencies related to the agri-food system.

Alfred, Kemptville and Ridgeway Campuses offer a general program that includes the core course requirements for the Diploma supplemented with elective courses with specialization in particular areas of study available as shown in the table. Students have the option of moving to one of the other campuses for one or two semesters of study. Students at all Campuses have access to the general curriculum and students at each campus receive the same diploma at graduation. Semester 3 is normally the best semester to study at another campus, particularly if it has a specialization and additional courses in which a student is interested. Students will be encouraged to consider these intercampus transfer opportunities with their program counsellor.

### Areas of Study

A: Alfred (French Language); K: Kemptville; R:Ridgeway

	A	K	R
Animal Production, Business and Field Crops	X	X	X
Equine Option		X	
Fruit and Vegetable Crops		X	X
International Development	X		

### Required Courses

#### Semester 1 - Fall

DAGR*1000	[0.50]	Livestock Systems
DAGR*1200	[0.50]	Applied Plant Science
DAGR*1300	[0.50]	Soil Principles
DAGR*1350	[0.50]	Agricultural Mechanization and Safety
DAGR*1600	[0.50]	Applied Mathematics
DAGR*1610	[0.50]	Computer Applications
DAGR*1620	[0.25]	Computer Applications - Part I
DAGR*1720	[0.25]	Written Communications

#### Semester 2 - Winter

DAGR*2100	[0.50]	Marketing and Policy
DAGR*2110	[0.50]	Business Accounting
DAGR*2600	[0.50]	Communication Skills
DAGR*2620	[0.25]	Computer Applications - Part II
DAGR*2720	[0.25]	Oral Communications

1.50 elective credits

**Note:** At some locations DAGR\*1350 may be scheduled in semester two and DAGR\*2600 may be scheduled in semester one to accommodate faculty and/or physical resource availability; DAGR\*2600 and DAGR\*1610 may be scheduled both F and W at some locations to accommodate the need for laboratory facilities.

#### Semester 3 - Fall

One of:

DAGR*3300	[0.50]	Land and Water Stewardship
DENM*3150	[0.50]	Agriculture and Environmental Stewardship (Ridgeway Only)

DAGR*3100	[0.50]	Business Management
DAGR*4600	[0.50]	Human Resource Management (Alfred only)

2.00 elective credits (1.50 elective credits at Alfred)

#### Semester 4 - Winter

DAGR*4600	[0.50]	Human Resource Management
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One of:

DAGR*4610	[0.50]	Business Project
DAGR*4620	[0.50]	Farm Project

An additional 2.00 elective credits (Ridgeway & Kemptville)

2.50 elective credits (Alfred only)

### Electives - Associate Diploma in Agriculture

Agriculture students must take at least 5.50 elective credits, 3.00 of which may be from programs other than Agriculture.

**Some electives are offered subject to a minimum enrolment. Some DAGR\* electives are common to several diploma programs.**

A student may only choose or be awarded credit for a maximum of 2 (1.00 credits) of the following Experiential Learning options including Experiential Learning courses, Special Study projects, In-Service Training courses, or Field Placement courses. It is preferable that an Experiential Learning course is started the summer before the third academic semester. See course description for DAGR\*3510.

### OFFERED AT ALFRED

#### Semester 2

DAGR*2000	[0.50]	Animal Science
DAGR*2010	[0.50]	Applied Microbiology
DAGR*2200	[0.50]	Cereal and Forage Management
DAGR*2210	[0.50]	Applied Weed Science
DAGR*2360	[0.50]	Machinery Maintenance *
DAGR*2650	[0.50]	In-Service Training
DAGR*3000	[0.50]	Beef Production *
DHRT*2000	[0.50]	Greenhouse Management *
DHRT*2200	[0.50]	Plant Propagation *

#### Semester 3

DAGR*3010	[0.50]	Dairy Production
DAGR*3050	[0.50]	Livestock Production Techniques
DAGR*3120	[0.50]	Business Marketing
DAGR*3210	[0.50]	Insect and Disease Management
DAGR*3350	[0.50]	Welding
DAGR*3400	[0.50]	Organic Fertilization

#### Semester 4

DAGR*2370	[0.50]	Small Engines *
DAGR*3200	[0.50]	Corn and Oilseed Management *
DAGR*3500	[0.50]	Agricultural Extension and International Communication *
DAGR*4000	[0.50]	Pork and Poultry Production *
DAGR*4010	[0.50]	Animal Health
DAGR*4040	[0.50]	Small Ruminant Animal Production *

DAGR*4050	[0.50]	Dairy Cattle Nutrition and Selection
DHRT*3010	[0.50]	Fruit and Vegetable Production *
DHRT*3300	[0.50]	Greenhouse Ornamental Production *

\*course offered in alternate years only

### OFFERED AT KEMPTVILLE

#### Semester 2

DAGR*2000	[0.50]	Animal Science
DAGR*2010	[0.50]	Applied Microbiology
DAGR*2200	[0.50]	Cereal and Forage Management
DAGR*3020	[0.50]	Livestock Evaluation
DAGR*3210	[0.50]	Insect and Disease Management
DAGR*2360	[0.50]	Machinery Maintenance
DAGR*2370	[0.50]	Small Engines
DAGR*4350	[0.50]	Farm Structures and Environment

#### Semester 3

DAGR*2210	[0.50]	Applied Weed Science
DAGR*3000	[0.50]	Beef Production
DAGR*3010	[0.50]	Dairy Production
DAGR*3030	[0.50]	Sheep Production
DAGR*3050	[0.50]	Livestock Production Techniques
DAGR*3200	[0.50]	Corn and Oilseed Management
DAGR*3250	[0.50]	Fruit Production
DAGR*3260	[0.50]	Vegetable Production
DAGR*3350	[0.50]	Welding
DAGR*3360	[0.50]	Grain Elevator Equipment and Feed Formulation

#### Semester 4

DAGR*3020	[0.50]	Livestock Evaluation
DAGR*3350	[0.50]	Welding
DAGR*3120	[0.50]	Business Marketing
DAGR*3130	[0.50]	Sales and Sales Management
DAGR*4000	[0.50]	Pork and Poultry Production
DAGR*4010	[0.50]	Animal Health
DAGR*4050	[0.50]	Dairy Cattle Nutrition and Selection
DAGR*4060	[0.50]	Alternative Animal Agriculture
DAGR*4100	[0.50]	Commodity Marketing
DAGR*4200	[0.50]	Cropping Systems
DAGR*4210	[0.50]	Crop Diagnostics and Recommendations
DAGR*4220	[0.50]	Organic Production
DAGR*4250	[0.50]	Post-Harvest Handling and Storage
DAGR*4350	[0.50]	Farm Structures and Environment
DAGR*4700	[0.50]	Advanced Agroforestry

### OFFERED AT RIDGETOWN

#### Semester 2

DAGR*2000	[0.50]	Animal Science
DAGR*2150	[0.50]	Precision Agriculture
DAGR*2200	[0.50]	Cereal and Forage Management
DAGR*2210	[0.50]	Applied Weed Science
DAGR*2220	[0.50]	Viticulture and Oenology
DAGR*3130	[0.50]	Sales and Sales Management

#### Semester 3

DAGR*2350	[0.50]	Field Crop Equipment
DAGR*3000	[0.50]	Beef Production
DAGR*3010	[0.50]	Dairy Production
DAGR*3040	[0.50]	Pork Production
DAGR*3090	[0.50]	Dairy Barn Management
DAGR*3110	[0.50]	Business Finance
DAGR*3120	[0.50]	Business Marketing
DAGR*3200	[0.50]	Corn and Oilseed Management
DAGR*3210	[0.50]	Insect and Disease Management
DAGR*3250	[0.50]	Fruit Production
DAGR*3260	[0.50]	Vegetable Production

#### Semester 4

DAGR*3090	[0.50]	Dairy Barn Management
DAGR*3350	[0.50]	Welding
DAGR*4010	[0.50]	Animal Health
DAGR*4020	[0.50]	Poultry Production
DAGR*4030	[0.50]	Sheep Flock Management
DAGR*4050	[0.50]	Dairy Cattle Nutrition and Selection
DAGR*4070	[0.50]	Swine Reproduction and Farrowing Management
DAGR*4100	[0.50]	Commodity Marketing
DAGR*4150	[0.50]	Renewable Energy & Agriculture
DAGR*4200	[0.50]	Cropping Systems
DAGR*4210	[0.50]	Crop Diagnostics and Recommendations
DAGR*4230	[0.50]	Grain Grading/Seed Production

DAGR*4260	[0.50]	Specialty Vegetable Production
DAGR*4270	[0.50]	Vegetable Crop Pest Management
DAGR*4350	[0.50]	Farm Structures and Environment
DENM*4210	[0.50]	Nutrient Management

### Associate Diploma in Agriculture - Equine Option

This program provides a practical, skills-oriented approach to agricultural production systems as well as the opportunity to specialize in the equine field. At the same time students have the opportunity to improve their business and managerial skills. Diploma in Agriculture - Equine Option students integrate practical experience with the technical and scientific information that is required to be successful in a number of equine and/or agriculture related ventures. Business management, computer skills, and problem solving activities provide students with the abilities they require as self-employed managers of equine facilities, and as technical / sales employees of agri-business firms, commodity boards, and other agencies related to the agri-food system or the equine industry.

All campuses offer a general program that includes the core course requirements for the Diploma supplemented with elective courses. However, the Equine Option program is unique to Kemptville Campus. Diploma in Agriculture - Equine Options students frequently combine their diploma studies with certificates in riding, coaching and horsemanship. Descriptions for these and other equine certificates are available elsewhere in this calendar.

### Required Courses

#### Semester 1 - Fall

DAGR*1200	[0.50]	Applied Plant Science
DAGR*1300	[0.50]	Soil Principles
DAGR*1600	[0.50]	Applied Mathematics
DAGR*1610	[0.50]	Computer Applications
DAGR*1620	[0.25]	Computer Applications - Part I
DAGR*1720	[0.25]	Written Communications
DAGR*1800	[0.50]	Horse Structure and Function
DAGR*2810	[0.50]	Practical Horse Care I

#### Semester 2 - Winter

DAGR*1350	[0.50]	Agricultural Mechanization and Safety
DAGR*2110	[0.50]	Business Accounting
DAGR*2620	[0.25]	Computer Applications - Part II
DAGR*2720	[0.25]	Oral Communications
DAGR*2820	[0.50]	Practical Horse Care

1.00 elective credits

#### Semester 3 - Fall

DAGR*3100	[0.50]	Business Management
DAGR*3300	[0.50]	Land and Water Stewardship
DAGR*3810	[0.50]	Horse Conformation and Lameness
DAGR*3820	[0.50]	Horse Feeds and Feeding
DAGR*4810	[0.50]	Horse Health

0.50 elective credits

#### Semester 4 - Winter

DAGR*4600	[0.50]	Human Resource Management
DAGR*4610	[0.50]	Business Project
DAGR*4800	[0.50]	Sport Horse Conditioning
DAGR*4820	[0.50]	Horse Reproduction

1.00 elective credits

### Electives

Agriculture students, in the Equine option, must take at least 2.50 elective credits, all of which may be from programs other than Agriculture.

Some electives are offered subject to a minimum enrolment. Some DAGR\* electives are common to several diploma programs.

A student may only choose or be awarded credit for a maximum of 2 (1.00 credits) of the following experiential learning options including Experiential Learning courses, Special Study projects, In-Service Training courses, or Field Placement courses. It is preferable that an Experiential Learning course is started the summer before the third academic semester. See course descriptions for DAGR\*3510 and DAGR\*3900.

#### Semester 2

DAGR*2010	[0.50]	Applied Microbiology
DAGR*2360	[0.50]	Machinery Maintenance
DAGR*2370	[0.50]	Small Engines

#### Semester 3

DAGR*1750	[0.50]	Coaching Techniques
DAGR*3130	[0.50]	Sales and Sales Management
DAGR*3350	[0.50]	Welding
DAGR*3930	[0.50]	Equine Complementary Therapies
DAGR*3940	[0.50]	Laboratory Techniques I

#### Semester 4

DAGR*3120	[0.50]	Business Marketing
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DAGR*4830	[0.50]	Horse Facility Management and Design
DAGR*4840	[0.50]	Laboratory Techniques II

## Associate Diploma in Agri-Food Leadership

The new Associate Diploma in Agri-Food Leadership at Kemptville Campus of the University of Guelph is aimed at students from urban and rural backgrounds looking for an exciting career within the food supply chain. The food supply chain is extensive in Canada, involving more than one person in seven. The Diploma builds on a core of leadership courses and then develops a wide understanding of the greater supply chain. The food supply chain includes the agricultural supply industries, processing, transportation, trade, food safety and inspection, wholesaling, distribution and retail. A firm understanding of food production is captured within the program while leadership skills are developed. A graduate with strong leadership qualities and who can display technical competence can expect a vast array of exiting career opportunities.

### Required Courses

#### Semester 1 - Fall

DAFL*1450	[0.50]	The Science of Livestock Systems
DAFL*1650	[0.50]	Science of Cropping Systems
DAFL*1730	[0.50]	Leading Teams
DAFL*1850	[0.50]	Food Safety and Quality
DAGR*1600	[0.50]	Applied Mathematics
DAGR*1620	[0.25]	Computer Applications - Part I
DAGR*1720	[0.25]	Written Communications

#### Semester 2 - Winter

DAFL*2730	[0.50]	Leading Within an Organization
DAFL*2850	[0.50]	Chemistry for the Workplace
DAGR*2620	[0.25]	Computer Applications - Part II
DAGR*2720	[0.25]	Oral Communications
DFN*1190	[0.50]	Introduction to Food Processing

1.00 elective credits

#### Semester 3 - Fall

DAFL*3730	[0.50]	Leading Change
DAFL*3510	[0.50]	Supply Chain Management & Systems Theory
DAFL*3520	[0.50]	Processing Facility Management
DAGR*3100	[0.50]	Business Management

1.00 elective credits

#### Semester 4 - Winter

DAFL*4510	[0.50]	Nutrition of Living Organisms
DAFL*4730	[0.50]	Leading Innovation
DAGR*4610	[0.50]	Business Project

An additional 1.50 elective credits.

### Electives - Associate Diploma in Agri-Food Leadership

Agri-Food Leadership students must take at least 3.50 elective credits. Some electives are offered subject to a minimum enrolment. Some DAGR\* electives are common to several diploma programs.

A student may be awarded credit for self study courses Experiential Learning in Agriculture and Special Project. It is preferable that a self study course be started the summer before the third academic semester. See course descriptions for DAGR\*3510 and DAGR\*3900.

### OFFERED AT KEMPTVILLE

#### Semester 2 - 1.0 elective credits, including:

A minimum of 0.50 elective credits from:

DAGR*2100	[0.50]	Marketing and Policy
DAGR*3120	[0.50]	Business Marketing
DFN*2250	[0.50]	Food Microbiology

And a minimum of 0.50 elective credits from:

DAGR*2200	[0.50]	Cereal and Forage Management
DAGR*3020	[0.50]	Livestock Evaluation
DAGR*3300	[0.50]	Land and Water Stewardship
DAGR*4000	[0.50]	Pork and Poultry Production
DAGR*4350	[0.50]	Farm Structures and Environment

#### Semester 3 - 1.0 elective credits, including:

A minimum of 0.50 elective credits from:

DAGR*3000	[0.50]	Beef Production
DAGR*3010	[0.50]	Dairy Production
DAGR*3030	[0.50]	Sheep Production
DAGR*3050	[0.50]	Livestock Production Techniques
DAGR*3200	[0.50]	Corn and Oilseed Management

And a minimum of 0.50 elective credits from:

DAGR*3130	[0.50]	Sales and Sales Management
DAGR*3510	[0.50]	Experiential Learning in Agriculture
DAGR*3900	[0.50]	Special Project

#### Semester 4 - 1.50 elective credits, including:

A minimum of 0.50 elective credits from:

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DAFL*4530	[0.50]	Wholesaling, Retail and Energy
DAGR*2100	[0.50]	Marketing and Policy
DAGR*3120	[0.50]	Business Marketing
DFN*2250	[0.50]	Food Microbiology

A minimum of 0.50 elective credits from:

DAGR*2200	[0.50]	Cereal and Forage Management
DAGR*3020	[0.50]	Livestock Evaluation
DAGR*3300	[0.50]	Land and Water Stewardship
DAGR*4000	[0.50]	Pork and Poultry Production
DAGR*4350	[0.50]	Farm Structures and Environment

## Associate Diploma in Environmental Management

Students interested in environmental issues and solutions may choose from two educational diploma streams within the Environmental Management Diploma offered at Ridgetown Campus and at Campus d'Alfred. This program applies technical and practical skills training in both a municipal / industrial stream as well as a rural / agricultural stream. The program is designed to address the critical shortage of trained and qualified sewage and/or water plant operators, and to train and certify personnel to assist growers in addressing nutrient management and source water protection regulations that affect many farms and rural residents across Ontario.

### Required Courses

#### Semester 1 - Fall

DAGR*1300	[0.50]	Soil Principles
DAGR*1600	[0.50]	Applied Mathematics
DAGR*1620	[0.25]	Computer Applications - Part I
DAGR*1720	[0.25]	Written Communications
DENM*1000	[0.50]	Environmental Science and Issues
DENM*1050	[0.50]	Fundamentals of Government and Organizations
DENM*1100	[0.50]	Surveying and GIS (Alfred only)
DENM*2050	[0.50]	Site Assessment

#### Semester 2 - Winter

DAGR*2620	[0.25]	Computer Applications - Part II
DAGR*2720	[0.25]	Oral Communications
DENM*2150	[0.50]	Water Resource Management
DENM*2200	[0.50]	Environmental Monitoring
DENM*3000	[0.50]	Data Analysis and Statistics
DENM*3100	[0.50]	Introduction to Applied Microbiology
DENM*4000	[0.50]	Business Practices and Ethics

#### Semester 3 - Fall

DAGR*4600	[0.50]	Human Resource Management (Alfred only)
DENM*1100	[0.50]	Surveying and GIS (Ridgetown only)
DENM*2000	[0.50]	Occupational Health and Safety
DENM*2100	[0.50]	Ecology
DENM*3050	[0.50]	Environmental Law

1.0 elective credits from:

DENM*3150	[0.50]	Agriculture and Environmental Stewardship
DENM*3200	[0.50]	Water Treatment
DENM*3210	[0.50]	Sewage & Waste Water Treatment
DENM*4200	[0.50]	Watershed Management and Conservation

#### Semester 4 - Winter

DAGR*4600	[0.50]	Human Resource Management (Ridgetown only)
DENM*4050	[0.50]	Environmental Project

2.0 elective credits from:

DAGR*3130	[0.50]	Sales and Sales Management
DAGR*4150	[0.50]	Renewable Energy & Agriculture
DENM*3160	[0.50]	Agricultural Chemicals in the Environment
DENM*4070	[0.50]	Waste and Water Operation Techniques
DENM*4100	[0.50]	Land Use Planning
DENM*4210	[0.50]	Nutrient Management
DENM*4250	[0.50]	Industrial Waste Management
DENM*4260	[0.50]	Spills Response Planning
DENM*4500	[0.50]	Environmental Management Externship

## Associate Diploma in Food, Nutrition and Risk Management

The Food, Nutrition and Risk Management Diploma provides students with a solid foundation in food and nutrition, food processing and safety, and in risk management issues. The combination of courses covering these topics, plus a field placement experience, allows students to graduate with a flexibility to move between careers in the health care and the food industry sectors. Career opportunities can be found in: food service management in health care, long term care and commercial facilities; food and equipment sales; nutrition education and in nutrition counseling for wellness. Food industry positions can be found in: quality assurance; product development; food inspection and in food production.

**Required Courses Offered at Kemptville and Alfred****Semester 1 - Fall**

DAGR*1600	[0.50]	Applied Mathematics
DAGR*1610	[0.50]	Computer Applications
DAGR*1620	[0.25]	Computer Applications - Part I (Kemptville)
DAGR*1720	[0.25]	Written Communications (Kemptville)
DFN*1020	[0.50]	Food Preparation and Theory
DFN*1060	[0.50]	Introduction to Nutrition
DFN*1200	[0.50]	Safe Food Handling
DFN*3070	[0.50]	Food Chemistry

**Semester 2 - Winter**

DAGR*2600	[0.50]	Communication Skills
DAGR*2620	[0.25]	Computer Applications - Part II (Kemptville)
DAGR*2720	[0.25]	Oral Communications (Kemptville)
DFN*1190*	[0.50]	Introduction to Food Processing (Alfred only)
DFN*2020	[0.50]	Nutrition and Health
DFN*2130	[0.50]	Food Cost Control
DFN*2140	[0.50]	Introduction to Food Service (Kemptville only)
DFN*2200	[0.50]	Food Service Design and Equipment (Kemptville only)
DFN*2250	[0.50]	Food Microbiology

0.50 elective credits (Alfred only)

**Semester 3 - Fall**

DAGR*4600	[0.50]	Human Resource Management
DFN*1190	[0.50]	Introduction to Food Processing (Kemptville only)
DFN*2140	[0.50]	Introduction to Food Service (Alfred only)
DFN*2200	[0.50]	Food Service Design and Equipment (Alfred only)
DFN*3030	[0.50]	Nutrition in Health and Disease
DFN*3200	[0.50]	Catering Management (Kemptville only)
DFN*4110	[0.50]	Product Development and Marketing (Alfred only)

1.00 elective credits (Kemptville only)

0.50 elective credits (Alfred only)

**Semester 4 - Winter**

DFN*3200	[0.50]	Catering Management (Alfred only)
DFN*4010	[0.50]	Advanced Nutrition in Disease
DFN*4030	[0.50]	Food, Beverage, Labour Cost Control
DFN*4050	[0.00]	Field Placement
DFN*4110	[0.50]	Product Development and Marketing (Kemptville only)
DFN*4200	[0.50]	Management Case Study

1.00 elective credits

**Electives**

DFN*2420	[0.50]	Cultural Food Practices
DFN*2440	[0.50]	Sensory Evaluation
DFN*4070	[0.50]	Advanced Topics in Food Processing
DFN*4160	[0.50]	Food Biotechnology
DFN*4170	[0.50]	Food Hazard Analysis
DFN*4210	[0.50]	Nutrition Myths and Facts

**Associate Diploma in Horticulture**

The nursery, landscaping, turf and floriculture segments of the horticulture industry are areas of sustained growth and development in Ontario and Canada. The Diploma in Horticulture program provides a basic curriculum in ornamental horticulture and an opportunity to take specialized courses in various components of the industry. Practical experience and training complements the more formal material presented in lectures and provides an opportunity to acquire the practical skills required in greenhouse and landscaping firms.

The Diploma in Horticulture program is offered at Kemptville Campus and Ridgetown Campus and prepares students for a variety of career opportunities in landscaping, nursery and greenhouse firms, municipal parks and golf courses, garden centres and private businesses.

**Required Courses****Semester 1 - Fall**

DAGR*1200	[0.50]	Applied Plant Science
DAGR*1300	[0.50]	Soil Principles
DAGR*1600	[0.50]	Applied Mathematics
DAGR*1610	[0.50]	Computer Applications
DAGR*1620	[0.25]	Computer Applications - Part I
DAGR*1720	[0.25]	Written Communications
DHRT*1000	[0.50]	Landscape Management
DHRT*1050	[0.50]	Plant Identification I

**Semester 2 - Winter**

DAGR*2110	[0.50]	Business Accounting
DAGR*2620	[0.25]	Computer Applications - Part II
DAGR*2720	[0.25]	Oral Communications

DHRT*2000	[0.50]	Greenhouse Management (Kemptville)
DHRT*2100	[0.50]	Landscape Design I
DHRT*2200	[0.50]	Plant Propagation

1.00 elective credits-Ridgetown; 0.5 elective credits-Kemptville

**Semester 3 - Fall**

DAGR*3100	[0.50]	Business Management
DHRT*2000	[0.50]	Greenhouse Management (Ridgetown)
DHRT*3050	[0.50]	Plant Identification II

1.50 elective credits-Ridgetown; 2.00 elective credits-Kemptville

**Semester 4 - Winter**

DAGR*4600	[0.50]	Human Resource Management
DHRT*4000	[0.50]	Ornamental Plant Protection
DHRT*4050	[0.50]	Certification and Safety

One of:

DAGR*4610	[0.50]	Business Project
DAGR*4620	[0.50]	Farm Project

1.00 elective credits

**Electives**

Horticulture students must take at least 3.50 elective credits, 3.00 credits of which may be from programs other than Horticulture.

Students may choose one Experiential Learning course and one Special Project course as electives. The Experiential Learning course is preferably to be started in the summer before the third academic semester. See the course descriptions for DHRT\*3510 and DHRT\*3910.

**OFFERED AT KEMPTVILLE****Semester 3**

DAGR*2370	[0.50]	Small Engines
DAGR*3260	[0.50]	Vegetable Production
DAGR*3350	[0.50]	Welding
DHRT*3090	[0.50]	Landscape Construction
DHRT*3160	[0.50]	Turf Management
DHRT*3170	[0.50]	Horticultural Weed Science
DHRT*4010	[0.50]	Floral Design and Retailing

**Semester 4**

DAGR*3250	[0.50]	Fruit Production
DAGR*3350	[0.50]	Welding
DAGR*4700	[0.50]	Advanced Agroforestry
DHRT*3100	[0.50]	Landscape Design II
DHRT*3150	[0.50]	Nursery Management
DHRT*3300	[0.50]	Greenhouse Ornamental Production
DHRT*4100	[0.50]	Computer Assisted Design

**OFFERED AT RIDGETOWN****Semester 2**

DHRT*2050	[0.50]	Ecological Principles in Horticulture
DAGR*2220	[0.50]	Viticulture and Oenology
DAGR*3130	[0.50]	Sales and Sales Management
DHRT*2090	[0.50]	Introduction to Landscape Construction
DHRT*2250	[0.50]	Horticultural Equipment Management
DHRT*4300	[0.50]	Arboriculture

**Semester 3**

DAGR*3110	[0.50]	Business Finance
DAGR*3120	[0.50]	Business Marketing
DHRT*3120	[0.50]	Applied Landscape Construction
DHRT*3150	[0.50]	Nursery Management
DHRT*3170	[0.50]	Horticultural Weed Science
DHRT*3230	[0.50]	Soil and Water Use in Horticulture
DHRT*4100	[0.50]	Computer Assisted Design

**Semester 4**

DHRT*3300	[0.50]	Greenhouse Ornamental Production
DHRT*4010	[0.50]	Floral Design and Retailing
DHRT*4170	[0.50]	Advanced CAD (Computer Assisted Design Graphics)
DHRT*4190	[0.50]	Greenhouse Vegetable Production
DHRT*4310	[0.50]	Tree Care Techniques

**Associate Diploma in Turfgrass Management**

Turfgrass management is a dynamic and growing sector across Canada and throughout the world. The Diploma in Turfgrass Management is a focused curriculum that will provide students with the skills to succeed in this competitive industry. The program utilizes the collaborative resources of the Guelph Turfgrass Institute which includes University of Guelph faculty and staff, industry professionals and the grounds, workshop and laboratory facilities of the Institute. Practical and scientific study is combined with a required summer work semester to provide students with a wide range of experience and knowledge. The Diploma in Turfgrass Management is offered only at the Guelph campus and prepares

students for a variety of career opportunities including golf course management, lawn care, sports field management, parks management, sod production and related supply and service businesses.

All courses in the Associate Diploma in Turfgrass Management are restricted to students enrolled in the program.

All students are required to work full time for at least 15 weeks in the summer following winter semester 2. Work must be in the field of turfgrass management. In semester 2, students must seek, interview for, and secure employment in consultation with the program coordinator. Prior to the end of semester 2, students must complete fall semester 3 pre-registration and a formal learning contract among themselves, the employer and the program coordinator. Academic requirements for the work semester as indicated in the course description of DTM\*3100, Current Turf Practices.

### Required Courses

#### Semester 1 - Fall

DTM*1000	[0.50]	The Turf Industry
DTM*1100	[0.50]	Plant Biology
DTM*1200	[0.50]	Turf Equipment
DTM*1300	[0.50]	Turf Soil Principles
DTM*1400	[0.50]	Landscape Plants
DTM*1500	[0.50]	Turf Communication Skills

#### Semester 2 - Winter

DTM*2000	[0.50]	Turf Management I
DTM*2100	[0.50]	Turf Irrigation and Drainage
DTM*2200	[0.50]	Computers and Math for Turf
DTM*2400	[0.50]	Landscape Design
DTM*2500	[0.50]	Arboriculture
DTM*2600	[0.50]	Turf Environmental Management

#### Semester 3 - Fall

DTM*3000	[0.50]	Turf Management II
DTM*3100	[0.50]	Current Turf Practices
DTM*3200	[0.50]	Turf Diseases
DTM*3300	[0.50]	Turf Insects and Weeds
DTM*3400	[0.50]	Landscape Construction

0.50 elective credits

#### Semester 4 - Winter

DTM*4000	[0.50]	Turf Management III
DTM*4200	[0.50]	Golf Course Design and Construction
DTM*4300	[0.50]	Turf Case Studies
DTM*4400	[0.50]	Human Resources Management
DTM*4500	[0.50]	Business and Finance for Turf

0.50 elective credits

### Electives

Students in Turfgrass Management are required to take 1.00 elective credits, 0.50 credits in each of semesters 3 and 4, selected from this list. Students should consult with the Director of the Associate Diploma in Turfgrass Management regarding possible elective courses from The Golf Management Institute of Canada.

#### Semester 3

DTM*3800	[0.50]	Special Study Project I
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#### Semester 4

DTM*4600	[0.50]	Computer Assisted Design
DTM*4800	[0.50]	Special Study Project II

## Associate Diploma in Veterinary Technology

This program is offered at Ridgetown Campus only, and is designed for students interested in a career working with and caring for animals. The program is designed to provide the technical training and knowledge required to become veterinary technicians working in association with practising veterinarians. Students take a comprehensive range of courses and training related to the care of food and laboratory animals, as well as companion and sport animals. All students are required to complete a four-week externship during the final semester.

This program is fully accredited by both the Canadian Veterinary Medical Association (CVMA) and the American Veterinary Medical Association (AVMA). **Students may select 1 of 2 delivery options for this program.**

### Option 1 - Conventional Program (4 semesters over 2 years)

#### Note

All courses are compulsory. Progression into the subsequent semester is dependent on the successful completion of each course in the previous semester. No elective courses are offered in this program.

### Semester 1 - Fall

DVT*1000	[0.50]	Livestock Production and Management
DVT*1010	[0.50]	Anatomy and Physiology I
DVT*1030	[0.50]	Biochemistry and Genetics
DVT*1040	[0.50]	Medical Exercises
DVT*1070	[0.50]	Laboratory Techniques
DVT*1080	[0.50]	Laboratory Quality Assurance

### Semester 2 - Winter

DVT*2000	[0.50]	Companion Animal Management
DVT*2010	[0.50]	Anatomy and Physiology
DVT*2020	[0.50]	Haematology/Cytology
DVT*2040	[0.50]	Medical Exercises
DVT*2050	[0.50]	Urinalysis

### Semester 3 - Fall

DVT*3000	[0.50]	Laboratory Animal Science
DVT*3010	[0.50]	Animal Nursing I
DVT*3020	[0.50]	Diagnostic Techniques I
DVT*3030	[0.50]	Radiography I
DVT*3040	[0.50]	Pharmacology
DVT*3050	[0.50]	Surgical and Anaesthetic Principles II

### Semester 4 - Winter

DVT*4000	[0.50]	Dentistry
DVT*4010	[0.50]	Animal Nursing II
DVT*4020	[0.50]	Diagnostic Techniques II
DVT*4030	[0.50]	Radiography II
DVT*4040	[0.50]	Hospital Management
DVT*4050	[0.50]	Surgical and Anaesthetic Principles
DVT*4060	[0.00]	Externship [Pass/Fail]

### Option 2 - Alternative Program (9 semesters over 3 years)

#### Note

All courses are compulsory. Progression into the subsequent semester is dependent on the successful completion of each course in the previous semester. No elective courses are offered in this program.

### Year 1

#### Fall Distance Education Courses

DVT*1100	[0.25]	Large Animal Production and Management I
DVT*1030	[0.50]	Biochemistry and Genetics

#### Winter Distance Education Courses

DVT*1200	[0.25]	Intro to Animal Microbiology
DVT*1210	[0.25]	Introduction to Urinalysis Theory
DVT*1220	[0.25]	Canine and Feline Nutrition & Care

#### Summer Courses (On-Campus)

DVT*1010	[0.50]	Anatomy and Physiology I
DVT*1040	[0.50]	Medical Exercises
DVT*1080	[0.50]	Laboratory Quality Assurance
DVT*1300	[0.25]	Large Animal Production and Management II
DVT*1310	[0.25]	Laboratory Procedures
DVT*1320	[0.25]	Practical Applications to Urinalysis
DVT*1330	[0.25]	Companion Animal Behaviour
DVT*2060	[0.50]	Communications & Vet Software

### Year 2

#### Fall Distance Education Courses

DVT*2100	[0.25]	Veterinary Nursing Techniques I
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#### Winter Distance Education Courses

DVT*2200	[0.25]	Introduction to Immunobiology
DVT*2210	[0.25]	Introduction to Anesthetic Principles

#### Summer Courses (On-Campus)

DVT*2020	[0.50]	Haematology/Cytology
DVT*2040	[0.50]	Medical Exercises
DVT*2300	[0.25]	Veterinary Anatomy and Physiology
DVT*2310	[0.25]	Veterinary Nursing Techniques II
DVT*2320	[0.25]	Surgical Exercises
DVT*2330	[0.25]	Clinical Chemistry
DVT*3030	[0.50]	Radiography I

### Year 3

#### Fall Distance Education Course

DVT*3040	[0.50]	Pharmacology
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#### Winter Distance Education Course

DVT*3200	[0.25]	Public Health
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DVT\*3210 [0.25] Veterinary Nursing Techniques III

### **Summer Courses (On-Campus)**

DVT\*3000 [0.50] Laboratory Animal Science

DVT\*3300 [0.25] Veterinary Nursing Techniques IV

DVT\*3320 [0.25] Veterinary Parasitology

DVT\*3330 [0.25] Veterinary Clinic Management

DVT\*4000 [0.50] Dentistry

DVT\*4030 [0.50] Radiography II

DVT\*4050 [0.50] Surgical and Anaesthetic Principles

DVT\*4060 [0.00] Externship [Pass/Fail]

## **Degree Transfer Option**

Students from any of the regional campuses (Alfred, Guelph, Kemptville, Ridgetown) are eligible to consider the degree transfer option to the following degree programs at the University of Guelph:

Bachelor of Arts

Bachelor of Commerce (Agricultural Business or Hotel and Food Administration majors)

Bachelor of Science in Agriculture

Bachelor of Science

In order to be eligible for consideration for transfer students must have a cumulative average of 70%, and they must meet the basic entrance requirements of the desired degree program. Students may also complete their studies at the other regional campuses and apply for degree admission following graduation under one of the Credit Transfer Agreements outlined in Section IV--Admission Information. Credits for courses completed in an Associate Diploma program will be assigned at the time of admission to a degree program as determined by the appropriate program committee.

## **Distance Education**

### **Distance Education / Open Learning**

The Distance Education program, administered by the Office of Open Learning at the University of Guelph, supports the departments in offering degree credit courses to students. Distance education allows learners to study at home or in their office, according to their own schedules - there are no classes to attend. Courses may come with a variety of learning resources, including: manuals, videotapes, audiotapes, audio CDs, DVDs, computer diskettes, CD-ROMs, etc., depending on the nature of the course. As well, most courses incorporate computer conferencing, e-mail, computer based quizzes and the use of the Internet. Distance education provides a contemporary means through which the University of Guelph continues its tradition of outreach and open learning opportunities.

Please consult the Office of Open Learning:

Office of Open Learning

Room 160, Johnston Hall

519-767-5000

e-mail: [INFO@OPEN.UOGUELPH.CA](mailto:INFO@OPEN.UOGUELPH.CA)

for an updated listing on courses available by distance education and when they are scheduled to be offered.

### **Note**

Please check with the Office of Open Learning regarding the technology and resource requirements (e.g. computer, modem, VCR, audio cassette recorder etc.) for the specific course(s).