# 2018-2019 Diploma Program Calendar

The information published in this Diploma Calendar outlines the rules, regulations, curricula, programs and fees for the 2018-2019 academic year, including the Summer Semester 2018, the Fall Semester 2018 and the Winter Semester 2019.

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.

Ridgetown Campus

Guelph Campus

The University is a full member of:

Universities Canada

Contact Information:

University of Guelph Guelph, Ontario, Canada N1G 2W1

519-824-4120

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# Disclaimer

# **University of Guelph 2018**

The information published in this Diploma Calendar outlines the rules, regulations, curricula, programs and fees for the 2018-2019 academic year, including the Summer Semester 2018, the Fall Semester 2018 and the Winter Semester 2019.

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 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.

The University will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by faculty, staff or students of the University or by others, civil unrest or disobedience, or any other cause of any kind beyond the reasonable control of the University.

In the event of a discrepancy between a print version (downloaded) and the Web version, the Web version will apply,

Published by: Enrolment Services

# Collection, Use and Disclosure of Personal Information

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) <a href="http://www.e-laws.gov.on.ca/index.html">http://www.e-laws.gov.on.ca/index.html</a>. 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 Advanced Education and Skills Development, 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 <a href="http://www.uoguelph.ca/registrar/registrar/registrar/index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index.cfm?index

## Disclosure of Personal Information to the Ontario Ministry of Advanced Education and Skills Development

The University of Guelph is required to disclose personal information such as characteristics and educational outcomes to the Minister of Advanced Education and Skills Development under s. 15 of the Ministry of Advanced Education and Skills Development Act, R.S.O. 1990, Chapter M.19, as amended. The Ministry collects this data for purposes including but not limited to planning, allocating and administering public funding to colleges, universities and other post-secondary educational and training institutions.

Amendments made to the Ministry of Advanced Education and Skills Development Act, authorizing the collection and use of personal information from colleges and universities by the Minister of Advanced Education and Skills Development, which were set out in Schedule 5 of the Childcare Modernization Act, 2014, came into force on March 31, 2015.

The amendments strengthen the ability of the Minister to directly or indirectly collect and use personal information about students as required to conduct research and analysis, including longitudinal studies, and statistical activities conducted by or on behalf of the Ministry for purposes that relate to post-secondary education and training, including,

- i. understanding the transition of students from secondary school to post-secondary education and training,
- ii. understanding student participation and progress, mobility and learning and employment outcomes,
- iii. understanding linkages among universities, colleges, secondary schools and other educational and training institutions prescribed by regulation,
- iv. understanding trends in post-secondary education or training program choices made by students,
- v. understanding sources and patterns of student financial resources, including financial assistance and supports provided by government and post-secondary educational and training institutions,
- vi. planning to enhance the affordability and accessibility of post-secondary education and training and the quality and effectiveness of the post-secondary sector,
- vii. identifying conditions or barriers that inhibit student participation, progress, completion and transition to employment or future post-secondary educational or training opportunities, and
- viii. developing key performance indicators.

Information that the University is required to provide includes but is not limited to: first, middle and last name, Ontario Educational Number, citizenship, date of birth, gender, first three digits of a student's postal code, mother tongue, degree program and major(s) in which the student is enrolled, year of study and whether the student has transferred from another institution.

Further information on the collection and use of student-level enrolment-related data can be obtained from the Ministry of Advanced Education and Skills Development website:https://www.ontario.ca/page/ministry-advanced-education-and-skills-development(English)orhttps://www.ontario.ca/fr/page/ministere-de-lenseignement-superieur-et-de-la-formation-professionnelle(French) or by writing to the Director, Postsecondary Finance and Information Management Branch,Postsecondary Education Division, 7th Floor, Mowat Block, 900 Bay Street, Toronto, ON M7A 1L2.Information Management Branch,

An update on Institutional and Ministry of Advanced Education and Skills Development Act Notice of Disclosure Activities is posted at <a href="https://www.ontario.ca/page/ministry-advanced-education-and-skills-development">https://www.ontario.ca/page/ministry-advanced-education-and-skills-development</a>

Frequently Asked Questions related to the Ministry's enrolment and OEN data activities are also posted at: http://www.tcu.gov.on.ca/pepg/publications/NoticeOfCollection.pdf

#### Authority to Disclose Personal Information to Statistics Canada

The Ministry of Advanced Education and Skills Development discloses student-level enrolment-related data it collects from the colleges and universities as required by Statistics Canada in accordance with Section 13 of the Federal Statistics Act. This gives Ministry of Advanced Education and Skills Development Act authority to disclose personal information in accordance with s. 42(1) (e) of FIPPA

### Notification of Disclosure of Personal Information to Statistics Canada

For further information, please see the Statistics Canada's web site at http://www.statcan.ca and Chapter XIV Statistics Canada.

#### **Address for University Communication**

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**

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 Chapter I--Statement of Students' Academic Responsibilities for more information.

#### **Home Address**

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through Enrolment Services.

### Name Changes

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

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 <a href="https://uoguelph.civicweb.net/document/68892/ORSInfoReleasePolicy060610.pdf?handle=FF982F8A9AEA4076BE4F3D88147172B8">https://uoguelph.civicweb.net/document/68892/ORSInfoReleasePolicy060610.pdf?handle=FF982F8A9AEA4076BE4F3D88147172B8</a>.

# **Learning Outcomes**

On December 5, 2012, the University of Guelph Senate approved five University-wide Learning Outcomes as the basis from which to guide the development of undergraduate degree and diploma programs, specializations and courses:

- 1. Critical and Creative Thinking
- 2. Literacy
- 3. Global Understanding
- 4. Communicating
- 5. Professional and Ethical Behaviour

These learning outcomes are also intended to serve as a framework through which our educational expectations are clear to students and the broader public; and to inform the process of outcomes assessment through the quality assurance process (regular reviews) of programs and departments.

An on-line guide to the learning outcomes, links to the associated skills, and detailed rubrics designed to support the development and assessment of additional program and discipline-specific outcomes, are available for reference on the Learning Outcomes website.

# 1. Critical and Creative Thinking

Critical and creative thinking is a concept in which one applies logical principles, after much inquiry and analysis, to solve problems with a high degree of innovation, divergent thinking and risk taking. Those mastering this outcome show evidence of integrating knowledge and applying this knowledge across disciplinary boundaries. Depth and breadth of understanding of disciplines is essential to this outcome.

In addition, Critical and Creative Thinking includes, but is not limited to, the following outcomes: Inquiry and Analysis; Problem Solving; Creativity; and Depth and Breadth of Understanding.

## 2. Literacy

Literacy is the ability to extract information from a variety of resources, assess the quality and validity of the material, and use it to discover new knowledge. The comfort in using quantitative literacy also exists in this definition, as does using technology effectively and developing visual literacy.

In addition, Literacy includes, but is not limited to, the following outcomes: Information Literacy, Quantitative Literacy, Technological Literacy, and Visual Literacy.

### **3. Global Understanding**

Global understanding encompasses the knowledge of cultural similarities and differences, the context (historical, geographical, political and environmental) from which these arise, and how they are manifest in modern society. Global understanding is exercised as civic engagement, intercultural competence and the ability to understand an academic discipline outside of the domestic context.

In addition, Global Understanding includes, but is not limited to, the following outcomes: Global Understanding, Sense of Historical Development, Civic Knowledge and Engagement, and Intercultural Competence.

## 4. Communicating

Communicating is the ability to interact effectively with a variety of individuals and groups, and convey information successfully in a variety of formats including oral and written communication. Communicating also comprises attentiveness and listening, as well as reading comprehension. It includes the ability to communicate and synthesize information, arguments, and analyses accurately and reliably.

In addition, Communicating includes, but is not limited to, the following outcomes: Oral Communication, Written Communication, Reading Comprehension, and Integrative Communication.

## 5. Professional and Ethical Behaviour

Professional and ethical behaviour requires the ability to accomplish the tasks at hand with proficient skills in teamwork and leadership, while remembering ethical reasoning behind all decisions. The ability for organizational and time management skills is essential in bringing together all aspects of managing self and others. Academic integrity is central to mastery in this outcome.

In addition, Professional and Ethical Behaviour includes, but is not limited to, the following outcomes: Teamwork, Ethical Reasoning, Leadership, and Personal Organization and Time Management

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# **XII.** Course Descriptions

### **General Information**

#### Subject Area and Alpha Course Prefix Index

ALPHA COURSE PREFIX SUBJECT AREA	
DAGR	Agriculture and Equine Studies
DENM	Environmental Management
DHRT	Horticulture
DTM	Turfgrass Management
DVT	Veterinary Technology
FREE	Associated Program Requirements

#### General Information

#### **Course Labeling and Levels**

Each course is identified by a two-part code. The first part of the code refers to the subject area, the second usually refers to the level of the course. Thus, the course DAGR\*3200 is a course in the subject area of Agriculture, and is of a level that places it among courses in the 3000 series. The series 1000, 2000, 3000 and 4000 numbers are intended to indicate progressively more demanding content, and correspondingly increasing competence on the part of the students enrolled in the course. Courses in the 1000 series are mainly for first semester students, those in the 2000 series are mainly for second semester students, and those in the 3000 series are for third semester students. Similarly, courses in the 4000 series are mainly intended to be taken by students in the fourth semester of associate diploma programs.

It is important that students planning their courses have clearly in mind the significance of these numbers so that they may guard against undertaking course work at levels for which they are insufficiently prepared. A number of courses have stated prerequisites which are prior requirements for entry to the course. Students who do not satisfy course prerequisites, or who, in the opinion of the instructor, do not possess an equivalent background to that of the stated prerequisites, are not eligible to enrol in the course. When some specific background is desirable but not required, the course description will include a statement of recommended background. It is understood that the instructor may accept equivalent courses from other institutions in place of the stated prerequisites. Students who wish to enrol in courses for which they do not have the stated prerequisite(s) must obtain instructor approval as outlined in Section VIII in this Calendar.

#### **Course Information**

The letters S, F, W indicate the University's intention to offer the course in the Summer (S), Fall (F) or Winter (W) semester during the academic year covered by this Calendar. Although courses normally will be offered in the semester indicated, students preparing their course programs are advised to consult the Course Timetable. The University cannot guarantee that all courses will be offered in the exact semester indicated.

The figures in parentheses () following the semester designation are a general guide to the lecture and laboratory contact hours per week, the first digit being the number of lecture hours and the second, the number of laboratory hours. The credit weight for each course appears in brackets []. A credit weight of [0.50] indicates 10-12 student effort hours, including class time, on academic tasks associated with the course.

Detailed course descriptions are maintained at the office of the department offering the course. Some courses, designated "Experiential Learning" courses in the Calendar description, are deliberately designed to accommodate the need to grant academic credit for experiential learning external to regular courses, in such contexts as co-operative education, field observation/job shadowing, internship/externships, practica, service learning, or work study (and other approved experience). Prior approval for admission to these courses must be obtained from the department and instructor concerned.

#### **Course Prerequisites**

In lists of course prerequisites, "or" conditions are spelled out explicitly, but "and" conditions are indicated with a comma ",". For example: "DAGR\*1200, DAGR\*1300, DAGR\*2200" means "DAGR\*1200 and DAGR\*1300 and DAGR\*2200".

#### **Course Equates and Restrictions**

#### Equates

Equate indicates a course identical to the one under which it is listed. The course may have been re-numbered or may be cross-listed under two subject areas. **Students will not be permitted to register in equated courses.** 

#### Restrictions

Restriction indicates sufficient over-lap in content that the course under which it is listed may not be taken if the student already has credit for the course identified as the restriction. Students will not be permitted to register in restricted courses.

### Language of Instruction

Classes at Guelph and Ridgetown are offered in English only.

# **Agri-Food Leadership**

#### DAFL\*4050 Leadership W (5-0) [0.50]

This course is designed to introduce students to basic leadership principles and skills. Topics include: leadership styles; employee behaviour and motivation; group and interpersonal dynamics; ethics; human relations; power and influence; organizational structure and culture; as well as an introduction to change management.

Department(s): Dean's Office, Ontario Agricultural College

Location(s): Ridgetown

### Agriculture

#### DAGR\*1000 Livestock Systems F (3-2) [0.50]

Students will gain an overall understanding of the livestock industry, focusing on major production issues and future challenges. Examples from various livestock production systems will be highlighted.

Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown

#### DAGR\*1070 Introduction to Business Management F,W (5-0) [0.50]

This course introduces business management principles, functions, and processes. Students will learn about the business environment, decision-making, and the role of the organizational functions, with a particular focus on accounting principles, accounting statements, and the use of financial information.

 Restriction(s):
 DAGR\*2110 , DAGR\*3100

 Department(s):
 Dean's Office, Ontario Agricultural College

 Location(s):
 Ridgetown

DAGR\*1090 Communications & Software Applications I F (2-3) [0.50]

Students will develop written language skills and become proficient at using word processing software. Practical skills include writing business letters and other business correspondence, resumes, formal and informal reports, instructional writing, critical thinking and critical writing. Students will become familiarized with campus software systems including campus e-mail, library resources, and classroom support software. Instruction will be provided in computer file management and using the internet as a research tool.

Restriction(s):	DAGR*1610, DAGR*1620, DAGR*1720
Department(s):	Dean's Office, Ontario Agricultural College
Location(s):	Ridgetown

#### DAGR\*1200 Applied Plant Science F,W (3-2) [0.50]

This course covers the basic structure and function of plants and the major functions involved in growth and reproduction as they relate to the production of plants. Topics to be discussed will include: plant processes such as photosynthesis, respiration, transpiration, nutrient uptake and reproduction, basic genetic principles, basic chemistry and the relationship and importance of plant science to the agricultural and horticultural industry. *Department(s):* Dean's Office, Ontario Agricultural College

Location(s): Ridgetown

#### DAGR\*1300 Soil Principles F (3-2) [0.50]

This course includes origin and classification of soils, identification and importance of major soil types, identification of primary and secondary nutrients and how they are supplied, composition of soil including minerals, water, air, organic matter and biological organisms and how they interact and the importance of soil as a resource.

Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown

#### DAGR\*1350 Agricultural Mechanization and Safety F,W (3-2) [0.50]

The course will cover the operating principles and components of tractors and equipment for tillage, planting, and the application of chemicals and fertilizers and harvesting. The course will emphasize safety in all aspects of the operation of agricultural equipment. *Department(s):* Dean's Office. Ontario Agricultural College

Location(s): Ridgetown

#### DAGR\*1600 Applied Mathematics F (3-2) [0.50]

This course is designed to augment mathematics skills necessary to compete in today's business environments. Typical applications are chemical rate conversions, solutions and mixtures, elementary algebra and financial topics. The aim is to teach students how to solve actual mathematical problems encountered in the day-to-day operation of agricultural/horticultural/environmental operations.

Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown

#### DAGR\*2000 Animal Science W (3-2) [0.50]

This course includes the biological principles applicable to the animal sciences with modules on growth, carcass composition, nutrition, reproduction, genetics and health. *Department(s):* Dean's Office, Ontario Agricultural College *Location(s):* Ridgetown

40	All. Course Descriptions, Agriculture
DAGR*2010 Applied Microbiology W (2-1) [0.50]	DAGR*2220 Viticulture and Oenology W (2-3) [0.50]
This course is an introduction to theoretical and practical aspects of microbiology. Topicsinclude the study of micro-organisms with emphasis on their morphology, physiology,biochemistry, culture and identification. The operation of light microscope, mediapreparation, and laboratory safety are discussed.Department(s):Dean's Office, Ontario Agricultural CollegeLocation(s):Ridgetown	This course introduces students to the history of grapes and grape production in Ontario, environmental factors which affect grape production in a cool climate, and practices for establishing and managing a vineyard in the context of producing high-quality wines. It will also provide an overview of the history of winemaking, wines produced in Ontario and other wine-producing regions of the world, and an introduction to the principles and making the various standard types of wine.
DAGR*2020 Financial Management F,W (4-0) [0.50]	Restriction(s): Student must be 19 years of age or older.
Student will learn important concepts and techniques required to analyze financial	Department(s): Dean's Office, Ontario Agricultural College
performance and guide business decision making. A broad range of financial topics will	Location(s): Ridgetown
be covered, including financial statements and cash flow analysis, financial forecasting	DAGR*2360 Machinery Maintenance W (1-3) [0.50]
and planning, internal control, budgeting, taxation, and the time value of money.	This course gives the student the basics in agricultural equipment repairs. A very practical
Prerequisite(s): DAGR*1070 Department(s): Dean's Office, Ontario Agricultural College	and hands-on approach will be used, with an emphasis on the safe use of tools and shop safety.
Location(s): Ridgetown	Department(s): Dean's Office, Ontario Agricultural College
DAGR*2090 Communications & Software Applications II W (3-2) [0.50]	Location(s): Ridgetown
Students will develop effective oral communication and presentation skills using software.	DAGR*3000 Beef Production F (3-2) [0.50]
Oral communication skills, preparing formal and informal reports with and without	Beef cow-calf and feedlot operations are examined, including crossbreeding and pure
technological support. Practical presentation skills include the use of voice, eye contact, time appropriateness and response to questions. Students will also understand the importance of formalized meetings and be instructed in the use of spreadsheet software as a data management tool. Software available on personal electronic devices used to	breeding programs, along with management of the cow-calf herd. The feedlot sections deal with ration formulation, feedlot management, meat quality, marketing and health protection. <i>Department(s):</i> Dean's Office, Ontario Agricultural College
access business and production information will be overviewed.	Location(s): Ridgetown
Restriction(s): DAGR*2600, DAGR*2620, DAGR*2720.	DAGR*3010 Dairy Production I F (3-2) [0.50]
Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown	Students will undertake a study of dairy management systems. Topics will include housing
DAGR*2150 Precision Agriculture W (3-2) [0.50]	systems, nutrition and feeding programs, sire selection and breeding programs, herd health and milk marketing strategies.
This course is designed to introduce students to the basic principles of precision farming	Prerequisite(s): DAGR*2000
tools and techniques. Topics will include map reading, data collection, data analysis -	Department(s): Dean's Office, Ontario Agricultural College
including geo-statistical methods, and an overview of current precision agriculture	Location(s): Ridgetown
technology. Labs will provide hands on learning of geographic information systems (GIS) software, and global positioning (GPS) technology.	DAGR*3040 Pork Production F (2-3) [0.50]
Department(s): Dean's Office, Ontario Agricultural College	This course will provide students with the opportunities to learn both the principles and
Location(s): Ridgetown	the skills necessary to manage and care for pigs according to industry standards. Case
DAGR*2170 Introduction to US Agriculture W (1-0) [0.00]	studies will be used to help students develop the skills necessary to assess farm related pork management problems.
This is a required preparatory course for students who plan to participate in the upcoming	<i>Co-requisite(s):</i> DAGR*2000
US Agriculture Study Tour course, DAGR 3170. The course will introduce and familiarize	Department(s): Dean's Office, Ontario Agricultural College
students with the locations which will be visited during the one-week field trip portion of DACP 2170 that takes place during the late summer. A page/fail grade will be assigned	Location(s): Ridgetown
of DAGR 3170 that takes place during the late summer. A pass/fail grade will be assigned upon completion of this course. Enrolment into DAGR*2170 does not guarantee	DAGR*3070 Introduction to Agricultural Economics & Marketing F,W (3-0) [0.50]
acceptance into DAGR*3170.	This course will provide an application of fundamental economic concepts to agriculture
Department(s): Dean's Office, Ontario Agricultural College	and an introduction to marketing systems and policy institutions related to the Canadian
Location(s): Ridgetown	agriculture industry. Topics will include price determination, futures markets, agricultural commodity marketing tools, effects of government intervention, and international trade.
DAGR*2180 Belize Study Tour W (2-0) [0.50]	<i>Prerequisite(s):</i> DAGR*1070
This course involves a nine day field study to Belize which will introduce students to	Equate(s): DAGR*3060
international agriculture and horticulture and international development. This will be achieved through direct interaction with producers, agriculture related businesses,	Department(s): Dean's Office, Ontario Agricultural College
horticultural facilities, education and international development projects. Students will	Location(s): Ridgetown
be given the opportunity to increase their knowledge of Belizean agricultural practices,	DAGR*3080 Marketing W (3-0) [0.50]
horticultural plant uses and international development projects. The field study is a	This course introduces fundamental marketing concepts involved in the distribution of
mandatory component of the course for which the student assumes the cost of transportation, food and lodging.	goods and services from the producer to the consumer. Students will learn about the marketplace, functions of the marketing mix (product, price, promotion, place), as well
Prerequisite(s): 2.50 credits	as personal selling.
Restriction(s): Instructor consent required.	Prerequisite(s): DAGR*1070
Department(s): Dean's Office, Ontario Agricultural College	Restriction(s): DAGR*3120
Location(s): Ridgetown	Department(s): Dean's Office, Ontario Agricultural College
DAGR*2200 Cereal and Forage Management W (3-2) [0.50]	Location(s): Ridgetown
The production and management of cereals and forages is discussed. Topic areas include variety and species selection, soil fertility management, planting dates, row widths, seeding rates, pest management systems, harvesting, drying and storage as applicable.	DAGR*3130 Sales and Sales Management F,W (2-1) [0.50] This course is an overview of personal selling in today's business environment with particular emphasis on skills needed to present an effective sales presentation. Buyer
Prerequisite(s):       DAGR*1200, DAGR*1300         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	<ul> <li>motivation and behaviour will be discussed along with managing time and sales territories.</li> <li><i>Department(s):</i> Dean's Office, Ontario Agricultural College</li> <li><i>Location(s):</i> Ridgetown</li> </ul>
DAGR*2210 Applied Weed Science F,W (3-2) [0.50]	
Weeds will be studied in relation to agricultural practices. Principles of cultural, biological, and chemical control will be outlined. Laboratories will include weed identification and weed control methods.	
Prerequisite(s):       DAGR*1200         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	

Ridgetown

Location(s):

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DAGR*3170 US Agriculture Study Tour F (3-0) [0.50]	DAGR*3900 Special Project S,F,W (0-0) [0.50]
This course involves a one-week field trip to the U.S. which will introduce students to international agri-business through direct interaction with primary producers, agriculture related businesses, and researchers. Students will be given the opportunity to speak directly with professionals in the agri-business industry to increase their knowledge of U.S. agricultural practices. An additional fee will be assessed per-student to cover the cost of transportation and accommodation. This course must be recorded as part of your Fall course registration. Tuition and compulsory fees will be calculated accordingly. The study tour will take place in the last week of August each year. <i>Prerequisite(s):</i> 5.00 credits including DAGR*2170 <i>Restriction(s):</i> Instructor consent required. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown	A self-directed student project focusing on a topic of academic and/or practical interest to the student. The student will identify and propose a detailed course outline to be reviewed and approved by the faculty supervisor prior to the commencement of the project. The project could include a research assignment, a literature review, a hands-on assignment with specific learning objectives and milestones for achieving these objectives. <i>Prerequisite(s):</i> 3.00 credits, registration in the Diploma in Agriculture program, written permission of the faculty supervisor. <i>Restriction(s):</i> DAGR*3910, <i>Restriction(s):</i> DFN*3910, <i>Restriction(s):</i> DHRT*3910 <i>Restriction(s):</i> Instructor consent required. <i>Department(s):</i> Dean's Office, Ontario Agricultural College
DAGR*3180 World Dairy Expo Study Tour F (2-0) [0.50]	Location(s): Ridgetown
This course will provide students with the opportunity to see the latest in research, technology, and genetics available to the dairy industry through a five day trip which will include attending the World Dairy Expo in Madison, Wisconsin. At the Expo the students will be able to attend seminars, cattle shows, examine new technology and interact with dairy producers and suppliers from around the world. Pre and post conference trips will be taken to American dairy operations and dairy research facilities. The field trip is a mandatory component of the course for which the student assumes the cost of	DAGR*4010 Animal Health W (3-0) [0.50]         Economic animal production requires healthy livestock and this course is designed to stress animal health. Diseases important to livestock in Ontario are discussed, with emphasis being placed on prevention and control methods.         Prerequisite(s):       DAGR*2000         Department(s):       Dean's Office, Ontario Agricultural College
transportation, food and lodging.	Location(s): Ridgetown
Prerequisite(s):       5.00 credits         Restriction(s):       Instructor consent required.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	DAGR*4020 Poultry Production W (3-2) [0.50] This course will provide students with the opportunities to learn both the principles and the skills necessary to manage and care for poultry according to industry standards. Case studies will be used to help students develop the skills necessary to assess farm related poultry management problems.
DAGR*3200 Corn and Oilseed Management F (3-2) [0.50] Management systems for the production of corn, soybeans, canola and edible beans will be presented. Specific topics include variety and species selection, row widths, seeding rates, planting dates, fertility, pest management, harvesting and storage. Current research	Co-requisite(s):       DAGR*2000         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
information is discussed in relationship to production practices.	DAGR*4040 Small Ruminant Production F,W (3-2) [0.50]
Prerequisite(s):DAGR*1200, DAGR*1300Department(s):Dean's Office, Ontario Agricultural CollegeLocation(s):Ridgetown	This course includes goat and sheep production and is studied with examples from Ontario and around the world. The major topics include: production systems, breeding, nutrition, health and welfare and products.
DAGR*3210 Insect and Disease Management F (3-2) [0.50]	Prerequisite(s): DAGR*1000, DAGR*2000 Department(s): Dean's Office, Ontario Agricultural College
The identification, biology and control of insects and diseases of field crops are presented. Control measures and the benefits and limitations of agricultural chemicals will be	Location(s): Ridgetown
examined.	DAGR*4100 Commodity Marketing W (3-0) [0.50]
Restriction(s):       DAGR*1200         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This course provides an understanding of commodity and currency price risks for corn, beans, wheat, cattle and hogs in Ontario. It includes the practical use of instruments that are available to deal with these risks and the development of an applied risk management strategy.
DAGR*3250 Fruit Production F,W (2-3) [0.50] Management systems for the major fruit crops in Ontario are discussed. Topics include	strategy. Department(s): Dean's Office, Ontario Agricultural College
climatic and soil conditions, cultural management, pruning and training.	Location(s): Ridgetown DAGR*4120 Dairy Production II W (3-2) [0.50]
Prerequisite(s):       DAGR*1200, (DAGR*1300 or DHRT*3230)         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This course covers advanced aspect of dairy nutrition and breeding strategies. Students learn to develop practical and economical feeding programs for calves, heifers, dry and milking cows. Students will complete an in-depth study of selection strategies and
DAGR*3260 Vegetable Production F (2-3) [0.50]	reproductive technologies (artificial insemination, embryo transfer) available to Ontario dairy producers.
This course includes commercial production and management of vegetable crops grown in Ontario. Topics discussed will include site selection, soil conditions, establishment, cultural practices, harvesting, post-harvest handling and marketing. <i>Prerequisite(s):</i> DAGR*1200, (DAGR*1300 or DHRT*3230)	Prerequisite(s):       DAGR*3010         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown	DAGR*4150 Renewable Energy & Agriculture F,W (3-2) [0.50]
DAGR*3510 Experiential Learning in Agriculture S,F,W [0.50]         Student-initiated learning opportunities can be developed as a credit course in consultation with a supervising faculty member. Details of the activities included in the program will be outlined in a learning contract initiated by the student and agreed to by the faculty supervisor prior to the commencement of the work experience.         Prerequisite(s):       4.00 credits, registration in the Diploma Program in Agriculture Restriction(s):         DAGR*3880, DFN*3510, DHRT*3510         Department(s):       Dean's Office, Ontario Agricultural College Location(s):	This course will introduce students to the current energy situation, energy use in agriculture, the impacts of energy production and use on the environment, and renewable energy opportunities for the rural community. Types of bioenergy crops will be described, including agronomic, handling, storage, transportation and end-use issues. Heat and power production technologies and how these integrate into agriculture and rural communities will be discussed. Environmental assessment, economics, and market opportunities of renewable energy production and use will be explored. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown

48	XII. Course Descriptions, Environmental Management
DAGR*4180 Dairy Herd Management F,W (2-3) [0.50]	DAGR*4610 Business Project W (4-0) [0.50]
This course is designed to give students the skills necessary to manage the daily operations of a cattle herd. these skills will include monitoring the health of calves and cows, proper milking techniques, breeding techniques, and hoof trimming. Using real herd production data, students will analyze the current production and management practices on cattle operations to identify areas of improvement. Using on farm data and observation, students will recommend changes to the operation including immediate (eg. culling, breeding decisions) and longer term plans (updating facilities or expansion) to improve operation	Students will identify a viable product or service, and will undertake a comprehensive study of the technical and economic aspects of a business designed to sell that product. Students will acquire basic information about the product, define their business and develop a business plan. <i>Prerequisite(s):</i> 7.50 credits, including DAGR*2020 <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
efficiency and profit.	DAGR*4650 Farm Project W (4-0) [0.50]
Prerequisite(s):       DAGR*2000         Co-requisite(s):       DAGR*3010         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This course provides a comprehensive analysis of a farm business. The students will be responsible for acquiring basic information about the enterprise, analyzing its strengths and weaknesses and developing a 3 year financial projection based on a major development plan.
DAGR*4190 Ruminant Nutrition W (3-2) [0.50]	Prerequisite(s): DAGR*2020, 7.50 credits
This course expands on ruminant nutrition principle. Students will learn to develop practical and economical rations and feeding programs for ruminant livestock. <i>Prerequisite(s):</i> DAGR*3000 or DAGR*3010 <i>Co-requisite(s):</i> DAGR*4040 <i>Department(s):</i> Dean's Office, Ontario Agricultural College	Equate(s):DAGR*4620Restriction(s):DAGR*4450,Restriction(s):DAGR*4610Department(s):Dean's Office, Ontario Agricultural CollegeLocation(s):Ridgetown
Location(s):         Ridgetown           DAGR*4200 Cropping Systems W (2-2) [0.50]	Environmental Management
Current and emerging crop production systems will be compared and evaluated in relationship to soil productivity, environmental awareness and the agricultural economy. Climate and weather and their impact on crop production is examined. Specialized production systems including strip tillage, seed production and organic production will be included. <i>Prerequisite(s):</i> DAGR*1200 <i>Department(s):</i> Dean's Office, Ontario Agricultural College	<b>DENM*1000 Environmental Science and Issues F (3-2) [0.50]</b> This course will expose the student to a broad range of environmental issues facing society today. The course will present the student with issues such as environmental quality and protection, the effects of industrialization and the need for conservation, global warming and the production and politics of food and its affect on the global, national, regional and local environmental quality.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
Location(s): Ridgetown DAGR*4210 Crop Diagnostics and Recommendations W (2-2) [0.50]	DENM*1120 Mathematics for Environmental Operators F (3-2) [0.50]
This course provides a comprehensive study of weeds, insects and diseases of field crops.         Case studies are used to develop problem-solving skills. Pest management control strategies are identified. Students will develop the skills and knowledge to assist in over-the-counter and on-farm pest management recommendations.         Prerequisite(s):       DAGR*2210 or DAGR*3210         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	Distribution and Collection Operators. The material taught will address the concepts required to write the optional Ministry of the Environment "Operator In Training Exams". Students will learn how to evaluate the efficiency of the individual process units of the plant and understand the basic mathematical concepts that are essential for maintaining efficient plant operation and compliance with environmental approvals and regulations. <i>Restriction(s):</i> Registration in the Environmental Management Diploma Program. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
This course provides a study of the basic concepts of organic agricultural production,	DENM*1150 Environmental Law and Governance F (5-0) [0.50]
<ul> <li>including production techniques in field and greenhouse crops and farm animals, produce certification, and marketing.</li> <li>Prerequisite(s): DAGR*1000, DAGR*1200, DAGR*1300</li> <li>Department(s): Dean's Office, Ontario Agricultural College</li> <li>Location(s): Ridgetown</li> </ul>	This course will introduce the student to the Canadian legal process. The development of statutes, regulations and by-laws and the roles and responsibilities of the various levels of government will be explored from an environmental and constitutional context. Environmental compliance, tort law, due diligence, corporate environmental liability, the role of the media and NGO's, and the role and responsibilities of regulatory agencies
DAGR*4350 Farm Structures and Environment W (3-2) [0.50]	will be examined. Environmental policies and treaties dealing with issues such as climate change, Alberta oil and hazardous waste as examples will be discussed.
This course provides an introduction to basic engineering principles related to livestock facilities and their environment. Students will gain a basic understanding of how to initiate the planning of a livestock structure or an environmental control system, including ventilation and manure storage. Environmental regulations concerning manure storage and handling will be discussed.	Restriction(s):       DENM*1050 ,         Restriction(s):       DENM*3050         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
<i>Prerequisite(s):</i> Minimum of 5.00 credits, including DAGR*1600 <i>Department(s):</i> Dean's Office, Ontario Agricultural College	DENM*1180 Introduction to GIS F (1-4) [0.50]
Location(s): Ridgetown	This course will introduce the student to the basic principles of Geographic Information Systems (GIS), map reading and production. They will learn how to read maps and to
DAGR*4450 Student Managed Enterprise II W (3-0) [0.50] This is a hands-on entrepreneurial course that provides students with developing and operating an enterprise. In this course students implement the business model developed in Student Managed Enterprise I. Students are responsible for the day-to-day operations of the enterprise, including all aspects of production, marketing, and distribution of the product. <i>Prerequisite(s):</i> DAGR*3450	create their own maps using current GIS technology. Students will learn to use GIS software, the Global Positioning System (GPS) and how these tools are used to collect, organize and store spatial data. Finally, Remote Sensing techniques will be examined reviewing the range of technology from basic air photo interpretation to the full range of current electronic sensors utilized by the land management professionals. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
Department(s): Dean's Office, Ontario Agricultural College	DENM*1200 Spills and Contaminated Site Remediation F (3-2) [0.50]
Location(s): Ridgetown DAGR*4600 Human Resource Management F,W (3-2) [0.50]	This course will explore the environmental, legal, technical and ethical aspects of the management, control and abatement of reportable spills to the environment. Spill response
Students will learn the theoretical and practical skills of management and interacting with people. Topics will include recruiting, supervising, motivation, training employees, effective listening, dealing with difficult people, group dynamics and leadership skills. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown	reporting requirements, site remediation of roportable spins to the environment, opin response reporting requirements, site remediation options, spill prevention and contingency planning will be included. Students will gain a detailed understanding of the site assessment process by completing a Phase 1 and Phase 2 assessment of a contaminated property and developing a decommissioning strategy for their chosen site. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown

DENM*2000 Occupational Health and Safety F (3-2) [0.50]	DENM*3100 Introduction to Applied Microbiology W (2-3) [0.50]
This course provides an introduction to the topic of occupational health and safety. Topics	This course is designed for students in environmental studies. The importance from an
to be covered include current Ministry of Labour Statutes and Regulations that pertain	environmental point of view, including water systems and soils as well as their importance
to the workplace. Students will become informed and conversant with topics including hazardous materials, hazardous chemicals, material safety data sheets, the Workplace	in disease, nutrition, food and food processing will be emphasized. <i>Department(s):</i> Dean's Office, Ontario Agricultural College
Hazardous Materials Information System and health and safety planning.	Location(s): Ridgetown
Department(s): Dean's Office, Ontario Agricultural College	DENM*3120 Introduction to GIS F (1-4) [0.50]
Location(s): Ridgetown	
DENM*2020 Advanced Math and Water Chemistry W (3-2) [0.50]	This course will introduce the student to the basic principles of Geographic Information Systems (GIS), map reading and production. They will learn how to read maps and to
This course will cover both advanced math as well as water chemistry concepts. Students	create their own maps using current GIS technology. Students will learn to use GIS
will be taught to determine process efficiency through the use of mathematical calculations	software, the Global Positioning System (GPS) and how these tools are used to collect,
rather than "trial and error" methods. Typical "In-plant" calculation and Labs that utilize	organize and store spacial data. finally, Remote Sensing techniques will be examined
actual plant samples are discussed. Student gain an understanding of basic chemistry	reviewing the range of technology from basic air photo interpretation to the full range
concepts, chemical phases of treatment such as coagulation, sedimentation, softening, disinfection and chemical removal of the various undesirable substances.	of current electronic sensors utilized by the land management professionals. <i>Department(s):</i> Dean's Office, Ontario Agricultural College
Prerequisite(s): DENM*1120	Location(s): Ridgetown
<i>Restriction(s):</i> Registration in the Environmental Management Diploma Program.	DENM*3150 Agriculture and Environmental Stewardship F (3-2) [0.50]
Department(s): Dean's Office, Ontario Agricultural College	This course examines the impact and role of farming in the agroecosystem. Lectures and
Location(s): Ridgetown	case studies will be used to explore potential pathways of soil degradation and
DENM*2050 Site Assessment F,W (3-2) [0.50]	environmental contamination from agriculture, site assessment of environmental risk
Environmental site assessments are now required by lenders for mortgage purposes prior	associated with specific farm operations and the utilization of best management practices
to the purchase of industrial, commercial, institutional, agricultural and residential	for the conservation of soil, water and other natural resources.
properties. This course will provide a detailed understanding of the site assessment process	<i>Prerequisite(s):</i> 1 of DAGR*1300, DEQN*1070, DEQN*3070, DHRT*2230,
and students will complete a Level 1 Site Assessment study and report as part of the course. Risk assessment, environmental auditing and the decommissioning of contaminated	DHRT*3230 Department(s): Dean's Office, Ontario Agricultural College
sites will also be explored and discussed. Case studies will provide an overview of specific	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
site assessments and subsequent large scale Level 2, 3 and 4 site remediation.	DENM*3160 Agricultural Chemicals in the Environment W (3-2) [0.50]
Department(s): Dean's Office, Ontario Agricultural College	An introduction to the environmental, human health and economic issues associated with
Location(s): Ridgetown	the use of chemicals, especially pesticides, in agriculture and landscape environments.
DENM*2100 Ecology F (3-2) [0.50]	Students will become informed and conversant on the benefits and possible risks of pests,
An introduction to the science of ecology, the study of interactions between organisms	pesticides, bio-controls and transgenic organisms that are used for pest management.
and their environments. Major topics include adaptation, populations, communities,	Department(s): Dean's Office, Ontario Agricultural College
biodiversity, ecosystems and competition. The effects of climate and human activities on ecological processes are also considered. Ecological principles are used to explain	Location(s): Ridgetown
the issues associated with several environmental problems.	DENM*3200 Water Treatment F (2-3) [0.50]
Department(s): Dean's Office, Ontario Agricultural College	This course provides the student with the basic design concepts and operational techniques
Location(s): Ridgetown	of industrial and municipal water treatment systems. Several treatment processes for ground and surface supplies will be discussed including optimization and testing
DENM*2150 Water Resource Management W (3-2) [0.50]	methodologies as well as the legal requirements of water taking in Ontario. Analytical
Water is a precious resource that is all-too-often taken for granted. This course will	calculations pertaining to water treatment will be examined. The participants in the course
demonstrate the significance of the various elements of the hydrologic cycle (e.g.	will be given the opportunity to write Provincial Certification Examination for the Water
precipitation, runoff, infiltration, groundwater recharge and discharge, etc.) It will focus on water supply systems, water wastewater perspective with other jurisdictions and the	Operator-In-Training classification.
world. The students will learn of common water quality problems, including causes, and	Prerequisite(s): DENM*2200, DENM*3100
pathways that contaminants follow to reach water and groundwater.	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
Department(s): Dean's Office, Ontario Agricultural College	DENM*3210 Sewage & Waste Water Treatment F (2-3) [0.50]
Location(s): Ridgetown	
DENM*2200 Environmental Monitoring F (2-3) [0.50]	This course covers the introductory concepts of sewage and some related industrial waste treatment. Topics covered encompass the various unit treatment mechanisms currently
This course will introduce the Environmental Management student to the various methods	utilized such as the biological, chemical and physical processes, legislation, different
used to measure environmental impact. Students will achieve a summary understanding	plant configurations, solids handling and disposal, process optimization and applicable
of the various government and other agency threshold limits and guidelines of environmental parameters such as water quality, vegetarian, terrestrial and social impact	testing methodologies. Analytical calculations pertaining to sewage treatment will be
analysis.	examined. The participants in the course will be given the opportunity to write the Provincial Certification Examination for the Sewage Operator-In-Training classification.
Department(s): Dean's Office, Ontario Agricultural College	Provincial Certification Examination for the Sewage Operator-In-Training classification. Prerequisite(s): DENM*2200, DENM*3100
Location(s): Ridgetown	Department(s): Dean's Office, Ontario Agricultural College
DENM*3000 Data Analysis and Statistics W (3-2) [0.50]	Location(s): Ridgetown
Introduction to the use of statistics in the field of environmental management. Basic	DENM*3220 Water Distribution and Wastewater Collection W (3-2) [0.50]
concepts include probability, observations, generalization of means, normal distribution,	This course provides the student with the basic design concepts and operational techniques
standard deviation, standard error, sampling, principles of experimental design, use of	of water distribution and wastewater collection systems. The student will receive
correlation and regression, index numbers. <i>Department(s):</i> Dean's Office, Ontario Agricultural College	instruction in system hydraulics, system response, operating limitations, system demands,
Location(s): Ridgetown	operation and maintenance, water quality, and related system design factors.
DENM*3030 Not-For-Profit Management W (5-0) [0.50]	Prerequisite(s): DENM*3200 or DENM*2200
• • • • • •	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
Students will learn aspects of environmental organizations, and other not-for-profit and charitable sector groups including recruitment and maintenance of a volunteer base,	Locanon(5). Nugerown
fundraising and financial management, event and project management, and risk	
management. In addition to these topics, this course will provide an overview of the	
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multiple aspects of running or working for a not-for-profit organization – from conducting an effective meeting to grant writing, from ethics to best practices for an effective board	

of directors. Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown

an effective meeting to grant writing, from ethics to best practices for an effective board

XII. Course Descriptions, Environmental Management
DENM*4150 Sampling and Analysis W (2-3) [0.50]
This is a practical course with hands-on approach designed to increase students' confidence and competency in performing laboratory and field work. Specific skills that will be acquired in this course will include: preparing a standard operation procedure; preparing a list of analytes for study; analyzing organic contaminants and heavy metals in surface water, groundwater and sediment, and evaluating the degree of contamination; evaluating vegetative communities in various types of habitat; compiling a representative species list; performing a title search; evaluation data, including quality control data; and analyzing macro-invertebrate and fish data. Collectively, students will use their acquired knowledge to design, carry out, interpret the results and prepare comprehensive report on a selected area. Department(s): Dean's Office, Ontario Agricultural College
Location(s): Ridgetown
<b>DENM*4200 Watershed Management and Conservation F (3-2) [0.50]</b> Students will learn to appreciate water issues on a watershed scale. They will see the impacts of various land uses on the quantity and quality of water leaving a watershed. The course will examine not only the impacts of human habitation on a watershed but will consider the impact of the forces of nature. The dynamics of various elements of a watershed (e.g. wetlands, dams, reservoirs, riparian zones, land cover, etc) will be studied in order to understand the importance of each in the entire system. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
DENM*4210 Nutrient Management W (3-2) [0.50]
This course will examine the best management practices associated with nutrient management on farms. Emphasis will be placed on the components and development of a nutrient management plan and the safe utilization of manures and bio-solids in agricultural production systems.         Prerequisite(s):       Minimum of 8.0 credits         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
DENM*4250 Industrial Waste Management W (3-2) [0.50]
This course is designed to give the student a thorough understanding of the field of industrial wastes from a regulatory perspective. Topics include current Federal and Ontario hazardous waste statutes and regulations. The registration and manifesting of a variety of hazardous and non-hazardous industrial wastes will be explored. Waste minimization and pollution prevention strategies and methodologies will also be discussed. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown         DENM*4260 Spills Response Planning W (3-2) [0.50]
The purpose of this course is to acquaint the student with the legislation and rules
surrounding spills and emergency planning. The student will demonstrate the technology and techniques available and how and when it is used. The process of contingency planning and the need for Environmental Management Systems will also be covered. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
DENM*4400 Environmental Industry Placement W (0-5) [0.00]
This four-week mandatory, post-semester training and evaluation period will offer the student the opportunity to gain practical experience in off-campus work placements typical of those available to them upon graduation. Students are required to perform many
of the duties that are commonly performed by graduates, are assessed by industry representatives as well as the course instructor. A report of their experiences will be
required to be submitted to the course instructor. A report of using experiences with be required to be submitted to the course instructor at the conclusion of their experience. A pass/fail grade will be assigned upon completion of the course. Students choosing to do their work placement in the water or wastewater treatment field must have successfully completed OIT certification in order to participate in the externship. <i>Prerequisite(s):</i> 9.00 credits <i>Restriction(s):</i> Registration in the Environmental Management Diploma Program. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown

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<ul> <li>and analysis practices invocation with a specific type of work placement; further velocity of working according to the construction of the construction o</li></ul>	work placements typical of those available to them upon graduation. They will: experience	horse both physically and mentally. Students will also practice developing and monitoring
<ul> <li>Proprint Province (p. 2007) 100 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 2007 (2007) 20</li></ul>		
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Department/:         Dears Office, Onario Agricultural College           Location (;         Reference ()         Department/:		breeding techniques and management, fertilization. gestation, parturition and foal care.
Processing:         Edgeboon           Programming:         Endgeboon           EQU:Not Direct Structures         Programming:           Programming:         Endgeboon           Programming:         End		
Equine Studies         Department;:         Dears Office, Omain Agricultural College           DEQN*1010 Introduction to the Horse Industry (3.000)         DEQN*2150 Practical Horse Car II Course focusion build induced in the intervent the encount and employment inpart on the horse. This course induced as agricultural control of the intervent of the use of horses. This course induced and build car of horses. This course induced and build can be and build in the course in the second build in the course in the second build in		
Location (1)         Ridgetorm           Decomposition function for the base industry F (3-0) (0.50)         This course builts on skills taught in Protein allone Care I. Count on the function in the conset industry provincing, bit internationally. An evenal theme in this course is a composition for the base industry provincing. In anding and daily care of horses. This course methods are sciently to the function of the func		
This concer will explore braines and employment opportunities in the horse industry.         This concer hulds on skills ungit in Practical Horse Care I. Course insues on bailing in the interfunctional area: the due to due	Equine Studies	
Various sectors and disciplines will be studied or reveal the economic and employment impact on the hore industry provincially, nationally and internationally. An overall dense in this course will be the use of horses as sport and regulatory governance badies will also be studied in denail.         Interventional and the economics is horses. This course emplanzion further shift development handfine, grooming, handging, daily outgin and area: day to day for daily feeling and shift areas.           Departmentify: Den NOTHER, Ontario Agricultural College Leastion(i): Religetown         Pereguistic(i): FORN-0100.           DEQN 100 Incres Encitler (1-1): 0.501         Students will learn to identify and prevent common nutrition hased disorders in a vari- tication (i): Religetown           DEQN 100 Incres Outsin Agricultural College Leastion (i): Religetown         Students will learn to identify and prevent common nutrition hased disorders in a vari- tication (i): DAGR 4310           DEQN 101 Incres. Outsin Agricultural College Leastion (i): Religetown         Dearts Office, Ontario Agricultural College Leastion (i): DAGR 4310           DEQN 1150 Incres. Incluit P (-1) (0.501         Students will learn to identify and prevent or the disset wystem, structure on a discress the care of horses. Field trips provi the introduction to anagonic field and an anagement for the part facation (i): DAGR 4310           DEQN 1150 Incres. Incluit P (-1) (0.501         Students will learn to impact the introduction to anagonic the disset wystem, structure and importance of day to day to day the introduction to anagonic field trips and again the introduction to anagonic the particle disset with the static and impact again the introduction anagaing the introduction intrease again to an introduct	DEQN*1010 Introduction to the Horse Industry F (3-0) [0.50]	DEQN*2150 Practical Horse Care II W (1-3) [0.50]
<ul> <li>Impact on the home industry provincially, nationally and internationally. An overall there in this course of homes as system and lesioner animaly responsible transition in the course of homes as port and espatial expansion. <i>J Control Agricultural College Locations(1):</i> Rears Office, Ontario Agricultural College Location(4): Ridgetown</li> <li>DEON*1020 Homes Structure and Function F (3-1) (0-50)</li> <li>DEON*1020 Homes Market and Agricultural College Location(4): Ridgetown</li> <li>DEON*1020 Homes Care IF (1-3) (0-50)</li> <li>This course introduction to equine health and disease, the care of sick animation at the introduction to equine health and disease, the care of sick animation at the introduction or equine health and disease, the care of sick animation at the introduction or equine health and disease, the care of sick animation at the introduction or equine health and disease, the care of sick animation at the introduction or equine health and adiety, dui youtines and reaction if incomes anternoticity in the introduction or equine health and protect. All is course introduces students to the location agricultural College Location(4): Ridgetown</li> <li>DEON*1100 Protectical Homes Care IF (1-3) (0-50)</li> <li>This course introduces students on the six stills and procedure state for theor</li></ul>		This course builds on skills taught in Practical Horse Care I. Course focuses on building
<ul> <li>theme in this course will be the use of horses as sport and leisure animals versus hores were and as all care.</li> <li><i>Department(i)</i>: Dearis Office, Ontario Agricultural College <i>Lecation(i)</i>: Ridgetown</li> <li><i>DEQN*1020 Horse Structures and Functions F (3-1) (6-50)</i></li> <li>This course encompasses the gross mationity and present control, were imprivation of the course of single and the control of the course of single and the control of the course is an introduction to anatomical terminology. The integramment y system. Selection <i>Course is an introduction to anatomical terminology</i>. The integrammetary is years.</li> <li><i>DEQN*1020 Horse Eaching F (3-1) (6-50)</i></li> <li>This course is an introduction to equine health and disease, the care of sick animals and the advecture of the other system. and the sub-course is an introduction to equine health and disease, the care of sick animals and there advecture and the value course of the preprint and the sub-course is an introduction to equine health and disease, the care of sick animals and there advecture and the value course of the preprint and the sub-course is an introduction to equine health and disease, the care of sick animals and there advecture and the principles of fragge establishing and and care.</li> <li><i>DEQN*1020 Horse Eaching F (3-1) (0.50)</i></li> <li>This course introduces students to the elements and importance of div to day stable preprintent(i): Deal's Office, Ontario Agricultural College <i>Lecation(i)</i>: Ridgetown</li> <li><i>DEQN*1020 Horse Eaching F (3-1) (0.50)</i></li> <li>This course introduces students to the lengents and importance of divers and exercise theory and the sub-course inductes and prevident and prevident and diverse are prevident and diverse and prevident and theore are prevident and theore are prevident and theore are prevident and prevident and theore are prevident and theore are prevident and prev</li></ul>		
bodies will also be sudied in deal.       Persputanes(1): DEQN*1050         Department(1): Dearls Office, Ontario Agricultural College       Decentron(1): Religious         DEQN*2020 Horse Structure and Function F (3-1) (5-0)       DEQN*2020 Horse Structure and Function F (3-1) (5-0)         Dis course encompasses the gross anatomy and physiology of the horse. The course is an introduction to automical terminology, the integumentary system, stellar will be an introduction to explore system.       December 2015         the digestive system and the endocrine system.       Persputation(2): DEQN*2040 Restructure to ensure authencicity of horse production groups. Horses are used in this course to ensure authencicity of horse production to equine health and desease, the cure of sick animula and for stable management practices related to the health and core for horse.       Perreputation(2): DEQN*2040 Restructure 10 College         Department(2): Deal's Office, Ontario Agricultural College       Department(3): Deal's Office, Ontario Agricultural College         Location(1): Ridgetown       DEQN*2040 Restructure and hay fields in discuss appropriate management practices related to the health and inportance of day to day stable for twice daily feeding and stall incore to mains and record beeping. Structure is introduction to equine health and darging througe emphases and with day feeding and stall care.         DEQN*2010 Perspectation(1): Deal's Office, Mersing, growing is table.       Deal's Structure and hay fields in discuss appropriate anagement practices relation to equine endocrine structure and hay fields in discuss appropriate management.         DEQN*2010 Perspectation is possing and in portance o		handling, grooming, bandaging, daily routine and hoof care. Students are responsible for
Dependent(s):         Dears Office, Ontario Agricultural College           Location(s):         Ridgetown           DEQN*1002 Horse Structure and Function F (3-1) [0.50]         Students will Learn to identify and prevent common nutrition based disorders in a variation of horse postcollar system, soletal           Department(s):         Dears Office, Ontario Agricultural College           Location(s):         Ridgetown           Department(s):         Dears Office, Ontario Agricultural College           Location(s):         Ridgetown           Department(s):         Dears Office, Ontario Agricultural College           Location(s):         Ridgetown           DEQN*1050 Horse Health (College)         Excitation(s):           DEQN*1050 Horse Health (College)         Excitation(s):           Department(s):         Dears Office, Ontario Agricultural College           Location(s):         Ridgetown           DEQN*1050 Horse Health (College)         Excitation(s):           Department(s):         Daris Office, Ontario Agricultural College           Location(s):         Ridgetown           DEQN*1100 Horse Structure Advacation as a control of gricultural College         Excitation(s):           Location(s):         Ridgetown           Department(s):         Dears Office, Ontario Agricultural College           Location(s):         Ridget	used as agricultural commodities. A study of equine sport and regulatory governing	
<i>Location(t):</i> Ridgetown <b>DEQN*1020 Horse Structure and Function F (3-1) [0.50]</b> <b>DEQN*1300 Advanced Horse Structure and Punction F (3-1) [0.50]</b> <b>DEQN*1300 horse leafub F (3-1) [0.50]</b> <b>DEQN*1310 Practical Horse Care II F (-3) [0.50]</b> <b>DEQN*1310 Practical Horse Care II F (-3) [0.50]</b> <b>DEQN*1310 Practical Horse Care II F (-3) [0.50]</b> <b>DEQN*1310 Practical Horse Care II and expands to incorporation and practical, five source signation and practical five source signation and practical five source signation and practical five source source source signation and practical five source source source signation and practical five source sou</b>		
DEQN*1020 Horse Structure and Function F (3-1) (0.50)         This course encompasses the gross anatumy and physiology of the horse. The course incompasses the gross anatumy and physiology of the horse. Stress muscular system, unitary system, careful diagestor system, and the endocrise system.         Department(s):       Deans office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*10300 Advanced Horse Nutrition F (3-2) (0.50)         Statement principses for the system.         Department(s):       Deans office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*10300 Advanced Horse Nutrition F (3-2) (0.50)         Statement principses for ontario Agricultural College         Location(s):       Ridgetown         DEQN*10300 Horse Statement for the part physicite system.       Degnet ment(s):         DEQN*10300 Force Management practices.       Degnet ment(s):         Degnet ment(s):       Deans office, Ontario Agricultural College         Location(s):       Ridgetown         Degnet ment(s):       Deans office, Ontario Agricultural College         Location(s):       Ridgetown         Degnet ment(s):       Deans office, Ontario Agricultural College         Location(s):       Ridgetown         Degnet ment(s):       Deans office, Ontario Agricultural College         Location(s): <t< td=""><td></td><td></td></t<>		
This course encompasses the gross anatomy and physiology of the horse. The course includes in introduction to matomical terminology, the integrateury system, acleid an use of the system, microline		
includes an introduction to anatomical terminology, the integramentary system, skeletal system, maculary system, andio-vascular system, the respiratory system, system, scalar system, andio-vascular system, the respiratory system, state system, and the endocrine system. <i>Department(s):</i> Dearls Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown DEQN*100 Horse Academs to the elements and importance of day to day stable facility management, Daily and and a sefey, daily routines and record keeping. Students will learn the principles of forage establishment and management for the purp of providing good quality. Dearls Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown DEQN*100 Horse Facility Management, Daily and an ear-incoment, Suff and and exer including feeding, watering, grooming, tack are responsible for twice daily feeding and stall care. <i>Department(s):</i> Dearls Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown DEQN*100 Horse Facility Management and Design F(2-2) [0.50] This course is designed to finaline stated record keeping. Student is and management of and epite facilities including is the phasics estaw okilling and wateria student with the basis skills and procedures used in the management of and equile facilities including is the phasics and the course. Perecugatize(s): DEQN*2100 Horse Facility Management and Design F(2-2) [0.50] This course is designed to finaline rest student with the basis skills and procedures used in the management of and equiles facilities including is the phasics and the phase student with and and sevend within this course are the phase of the source facilities including is the phasics and the phase student with and and evendent withe stable performa		
system, muscular system, unitaar ysstem, unitaarysstem, u		
Department(s):         Densities (s):         Deferentiaties (s):         Deferentias (s):         Deferentiaties (s):         D		
Location(s):       Ridgetown         DEQN*1050 Horse Health F (3-1) (0.50)         DEQN*1050 Horse Health F (3-1) (0.50)         DEQN*1050 Horse Health F (3-1) (0.50)         Department(s):       Deark Office, Ontario Agricultural College         Department(s):       Deark Office, Ontario Agricultural College         Location(s):       Ridgetown         DEON*1150 Parateal Horse Care IF (1-3) (0.50)         This course introduces students to the elements and importance of day to day stable facility management. Daily animal care including feeding, watering, grooming, tack maintenance and trum out is tauged and particeld. this course emphasizes safe handling sizes safe handling steep hans office, Ontario Agricultural College         Decominet(s):       Deark Office, Ontario Agricultural College         Location(s):       Nidegtown         DEQN*1200 Horse Facility Management and Design F (2-2) (0.50)         This course is designed to familiarize student will be able to evaluate a horse's conformation and environmental control, water management size a costantio is given to environmental step handling size planning a	• •	Prerequisite(s): DEQN*2040
DEQN*1050 Horse Health F (3-1) [0.50]         Department(s):         Dealth Softice; Ontario Agricultural College           Deconverse is an introduction to equine health and disease, the care of sick animals and other stable management practices:         Restriction(s):         Restriction(s):         DEQN*1070 Forage Management practices.           Restriction(s):         Dealts Onlice; Ontario Agricultural College         Students will learn the principles of forage establishment and management for the pup of providing good quality, affordable pasture and hay for horses. Field trips providing good quality, affordable pasture and hay for horses.           DEQN*1150 Practical Horse Care I [1-3] (0.50]         Students will learn the principles of forage establishment and management practices.           DEQN*1150 Practical Horse Care I [1-3] (0.50]         Ridgetown         Department(s):           Department(s):         Dearts Onlice; Ontario Agricultural College           Location(s):         Ridgetown         This course emphasizes stafe handling of horses, occupational health and safety, daily routines and record keeping. Student same same and readity for forigs and stall care.           Department(s):         Dearts Onlice; Ontario Agricultural College         Decontrol(s):           Location(s):         Ridgetown         This course fully Management and Dasign et all acre.           Department(s):         Dearts Onlice; Ontario Agricultural College         Decontrol(s):           Location(s):         Ridgetown         This course entrol adais		
This course is an introduction to equine health and disease, the care of sick animals and other stable management practices related to the health care of horses.       Feedow 3070 Forage Management for Horses F (3-2) [0.50]         Students will learn the principles of forage establishment and management for the pray or growiding good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. Field trips provident good quality, affordable pasture and hay for horses. The durins of horse of horses. The durins of the pasture and there and the pasture and hay for horses. The durins of horse for horse of the management for a quity and proceed trips provident good quality, affordable pasture and hay for horses and record keeping. Students and environment of the quity feeding and stall care.         <		
order stable management practices related to the health care of horses.         Restriction(s):       DAGR*4810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*1150 Practical Horse Care I F (1-3) [0.50]       Extension(s):         This course introduces students to the elements and importance of day to day stable facility management. Daily animal care including feeding, watering, grooming, tack maintenance and turn out is taught and practiced. this course emphasizes as after hemphasizes a		
Restriction(s):       DAGR*4310         Deparament(s):       Deards         DEQN*91150 Practical Horse Care I F (1-3) [0.50]       Decation(s):         This course introduces students to the elements and importance of day to day stable facility management. Daily animal care including feeding, watering, grooming, tack maintenance and turn out is targht and practiced, this course emphasizes stafe handling of horses, occurational has a steft, daily vortines and mecord keeping. Students are responsible for twice daily feeding and stall care.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):       Ridgetown         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]       This course is designed to familiarize students with the basic skills and process is designed to familiarize students with the basic skills and procedures used in the management of an cepting: force included within this course are the building, renovating and management of horses, facilities including site planning and and environmental stewardship.       DEQN*2100 Horse Facility Management and Lameness W (3-1) [0.50]         Department(s):       Dean's Office, Ontario Agricultural College Location(s):       Ridgetown         Departonent(s):       Dean's Office, Ontario Agricu		
Location(s):       Ridgetown         DEQN*1150 Practical Horse Care IF (1-3) [0.50]         This course introduces students to the elements and importance of day to day stable         facility management. Daily animal care including feeding, watering, grooming, tack         maintenance and turn out is taught and practiced. this course emphasizes stafe handling         pepartment(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]       This course is designed to familiarize students with the basic skills and procedures used         Discourse is designed to familiarize students with the basic skills and procedures used       Department(s):         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]       This course is designed to familiarize students with the basic skills and procedures used         berartment(s):       DEQN*21200 Horse Facilities including site planning and and environmental stewardship.         Restriction(s):       DAGR*4830         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2040 Horse Conformation and Lameness W (3-1) [0.50]         Upon completion of this course the student will be able to evaluate a horse's conformation, and therest ading of the common lameness and blemishes found in horses and their relationship to athletic performance.         Prerequisite(s):       <		of providing good quality, affordable pasture and hay for horses. Field trips provide
DEQN*1150 Practical Horse Care I F (1-3) [0.50]         DEQN*1150 Practical Horse Care I F (1-3) [0.50]         This course introduces students to the elements and importance of day to day stable facility management. Daily animal care including feeding, watering, grooming, tack maintenance and turn out is taught and practiced, this course emphasizes state handling of horses, occupational health and safety, daily routines and record keeping. Students are responsible for twice daily feeding and stall care.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Inits course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, renovating and management of horse facilities included within this course are discussed.         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         DEQN*2030 Horse Conformation and thetic performance.         Prerequisite(s):       DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         This course in student will be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and learning striction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College Location(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College Location(s):       DAGR*3810         Departis (s):       DEQN*1020       DEQN*4050 Rider Co		students the opportunity to assess the conditions of local pastures and hay fields then
This course introduces students to the elements and importance of day to day stable facility management. Daily animal care including feeding, watering, grooming, tack maintenance and turn out is taught and practiced. this course safe handing of horses, occupational health and safety, daily routines and record keeping. Students are responsible for twice daily feeding and stall care.       DEQN*3150 Practical Horse Care II and expands to incorpor a student led and managed barn environment. This course emphasizes team work throw managing student teams and leadership through working in supervisory capacity in many provide to twice daily feeding and stall care.         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]       This course is designed to finalitarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, renovating and managedbaretation is given to environmental control, waste management and electromagnetic ultrason operative available to a horse care-giver or equinager in the thrapeutic or convalescent care of horses. The course includes introduce in the stary acupressure, acupuncture and herbology. As well, herpertinent(s): Dean's Office, Ontario Agricultural College Location(s): Kidgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       This course introduces students with the babic to exclude and handes of an equine facility. Data State and the advection and develop an understanding of the common lameness and blemishes found in horses and their relationship to athletic performance.         Prerequisite(s): DAGR*3810       DEQN*2100         DEQN*2040 Horse Feeds and Nutrition W (2-		
This course inforduces students on the reliables and importance of day to vide growing, tack facility management. Daily animal care including feeding, watering, growing, tack facility management daily feeding and stall care.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Location(s):       Ridgetown         DEQN*2120 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, encovating and management of norse facilities including site planning and interior design. Special consideration is given to environmental control, waste management and environment at stewardship.         DEQN*200 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, encovating and management of norse facilities lendang and environment. Staff management of an equine facility. Topics included within this course are the building. encovating and management of an equine facility. Topics includes the planning and interior design. Special consideration is given to environmental control, waste management of an equine facility. Topics includes the planning and interior design. Special consideration is given to environment and the portion of the course. Prerequisite(s): DAGR*4830         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       This course evores the complementary therapies available to a horse care-giver or equimanaged in theritoral dinserse and heritory and incord price data w		
maintenance and turn out is taught and practiced. this course emphasizes safe handling         of horses, occupational health and safety, daily routines and record keeping. Students         are responsible for twice daily feeding and stall care.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, renovating and management of horse facilities including site planning and environmental stewardship.         DEQN*1200 Horse Conformation and Lameness W (3-1) [0.50]         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Location(s):       DEQN*200 Horse Conformation and Lameness W (3-1) [0.50]         This course is designed to in horses and their relationship to athletic performance.         Prerequisite(s):       DEQN*1020, DEQN*2100         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural Col		
of horses, occupational health and safety, daily routines and record keeping. Students         are responsible for twice daily feeding and stall care.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2100 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, renovating and management of horse facilities including site planning and environmental stewardship.         Restriction(s):       DAGR*4830         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       This course entropic and their relationship to athletic performance.         Prerequisite(s):       DEQN*1020         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College		
Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, renovating and management of horse facilities including site planning and environmental stearchardship.         Restriction(s):       DAGR*4830         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       This course the student will be able to evaluate a horse's conformation, site for moto function and develop an understanding of the common lameness and bleir relationship to athletic performance.         Prerequisite(s):       DEQN*1020         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         Department(s):       DAGR*3810         Department(s):       DAGR*3810         Department(s):       DAGR*3820		a student led and managed barn environment. This course emphasizes team work through
Location(s):       Ridgetown         DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of norse facilities included within this course are the bidling, renovating and management of horse facilities included within this course are the and environmental stewardship.       Prerequisite(s): DEQN*2100 Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       This course the student will be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and blemishes found in horses and their relationship to athletic performance.       DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         Prerequisite(s):       DEQN*1020 Restriction(s):       Restriction(s): DAGR*3810       Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and facility: DAGR*3320       DEQN*4030 Rider Conditioning W (3-2) [0.50]         This course introduces students to the topics of digestion, feed nutrients, feed stuffs and facility: DAGR*3320       DEQN*3050 Rider Contario Agricultural College Location(s): Ridgetown		
DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]         This course is designed to familiarize students with the basic skills and procedures used in the management of an equine facility. Topics included within this course are the building, renovating and management of horse facilities including site planning and interior design. Special consideration is given to environmental control, waste management and environmental stewardship.       Prerequisite(s): DEQN*210 Equine Complementary Therapies F (2-1) [0.50]         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       This course includes introduces fudentwill be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and blemishes found in horses and their relationship to athletic performance.       Prerequisite(s): DEQN*1020         Prerequisite(s): DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.       Prerequisite(s): DAGR*3750         DEQN*2040 Horse Students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.       Maintum 8.00 credits Restriction(s): DAGR*3750         Department(s): DAGR*3820       Dean's Office, Ontario Agricultural College Location(s): Ridgetown		6 . 6
This course is designed to familiarize students with the basic skills and procedures used         in the management of an equine facility. Topics included within this course are the         building, renovating and management of horse facilities including site planning and         interior design. Special consideration is given to environmental control, waste management         and environmental stewardship.         Restriction(s):       DAGR*4830         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         Upon completion of this course the student will be able to evaluate a horse's conformation,         blemishes found in horses and their relationship to athletic performance.         Prerequisite(s):       DEQN*1020         Restriction(s):       Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]         This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s):       DAGR*3820	DEQN*1200 Horse Facility Management and Design F (2-2) [0.50]	
DEQN*3210 Equic Complementary Therapies F (2-1) [0.50]         DEQN*3210 Equic Complementary Therapies F (2-1) [0.50]         This course covers the complementary therapies available to a horse care-giver or equimanager in the therapeutic or convalescent care of horses. The course includes introduction to massage therapy, acupressure, acupuncture and herbology. As well, he hydro, cold and electromagnetic, ultrasonography and magnetic therapy are discuss Case study and hands-on work will be included in the lab portion of the course.         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       Prerequisite(s): DEQN*1020         Question (s):       Ridgetown         Department(s):       DEQN*4050 Rider Conditioning W (3-2) [0.50]         Prerequisite(s):       DEQN*4050 Rider Conditioning requirements and guidelines for riders at ear of a thetic conditioning requirements and guidelines for riders at ear of a thetic conditioning requirements and guidelines for riders at ear of the second magnetic considerations are a discussed.         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s):       DAGR*3820		
interior design. Special consideration is given to environmental control, waste management and environmental stewardship.       This course complementary therapies available to a horse care-giver or equi- manager in the therapeutic or convalescent care of horses. The course includes introduction to massage therapy, acupressure, acupuncture and herbology. As well, he hydro, cold and electromagnetic, ultrasonography and magnetic therapy are discuss <i>Location(s)</i> : Ridgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       Prerequisite(s): DEQN*1020, Restriction(s): DAGR*3810         Pererquisite(s): DEQN*1020 Restriction(s): DAGR*3810       Department(s): DAGR*3810         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s): DAGR*3820       Restriction(s): DAGR*3750         Department(s): DAGR*3750         Department(s): DAGR*3820	in the management of an equine facility. Topics included within this course are the	Location(s): Ridgetown
and environmental stewardship.Restriction(s):DAGR*4830Department(s):Dean's Office, Ontario Agricultural CollegeLocation(s):RidgetownDEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]Upon completion of this course the student will be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and blemishes found in horse and their relationship to athletic performance.Prerequisite(s):DEQN*1020Prerequisite(s):DEQN*1020Restriction(s):DAGR*3810Department(s):Dean's Office, Ontario Agricultural College Location(s):Location(s):RidgetownDEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.Restriction(s):DAGR*3820		DEQN*3210 Equine Complementary Therapies F (2-1) [0.50]
Restriction(s):DAGR*4830 Department(s):Dean's Office, Ontario Agricultural College Location(s):Manager in the therapeutic or Convalescent care of norses. The courses introduces introduction to massage therapy, acupressure, acupuncture and herbology. As well, he hydro, cold and electromagnetic, ultrasonography and magnetic therapy are discuss Case study and hands-on work will be included in the lab portion of the course.DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]Prerequisite(s):DEQN*1020, DEQN*1020, DEQN*1020 Restriction(s):DEQN*1020 Restriction(s):Degarts of fice, Ontario Agricultural College Location(s):DEQN*4050 Rider Conditioning W (3-2) [0.50]DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.Minimum 8.00 credits Restriction(s):Prerequisite(s):DAGR*3750 Department(s):DEQN*3820DAGR*3820Ridgetown		This course covers the complementary therapies available to a horse care-giver or equine
Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]         Upon completion of this course the student will be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and blemishes found in horses and their relationship to athletic performance.         Prerequisite(s):       DEQN*1020         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s):       DAGR*3820	*	U I
DEQN*2030 Horse Conformation and Lameness W (3-1) [0.50]       Prerequisite(s): DEQN*1020, DEQN*2010         Upon completion of this course the student will be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and blemishes found in horses and their relationship to athletic performance.       Prerequisite(s): DEQN*1020         Prerequisite(s): DEQN*1020       Restriction(s): DAGR*3810       Department(s): Dean's Office, Ontario Agricultural College         Location(s): Ridgetown       DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.       Prerequisite(s): Minimum 8.00 credits         Restriction(s): DAGR*3820       Prerequisite(s): Minimum 8.00 fifte, Ontario Agricultural College	Department(s): Dean's Office, Ontario Agricultural College	hydro, cold and electromagnetic, ultrasonography and magnetic therapy are discussed.
Upon completion of this course the student will be able to evaluate a horse's conformation, relate form to function and develop an understanding of the common lameness and blemishes found in horses and their relationship to athletic performance.       Restriction(s): DAGR*3930         Prerequisite(s): DEQN*1020       Restriction(s): DAGR*3810         Restriction(s): Dean's Office, Ontario Agricultural College       Department(s): Dean's Office, Ontario Agricultural College         Location(s): Ridgetown       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.       Prerequisite(s): Minimum 8.00 credits         Restriction(s): DAGR*3820       Department(s): DAGR*3750       Department(s): Dean's Office, Ontario Agricultural College		Case study and hands-on work will be included in the lab portion of the course.
Department(s):       Dean's Office, Ontario Agricultural College         Department(s):       DEQN*1020         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s):       DAGR*3820		
Definition in the second matrix and		
Prerequisite(s):       DEQN*1020         Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s):       DAGR*3820	1 0	
Restriction(s):       DAGR*3810         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.         Restriction(s):       DAGR*3820		DEQN*4050 Rider Conditioning W (3-2) [0.50]
Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown         DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       stage of athletic development. Equestrian discipline-specific considerations are a discussed.         Prerequisite(s):       Minimum 8.00 credits         reading practices for horses.       Partment(s):         Restriction(s):       DAGR*3820	Restriction(s): DAGR*3810	This course covers athletic conditioning requirements and guidelines for riders at each
DEQN*2040 Horse Feeds and Nutrition W (2-1) [0.50]       Prerequisite(s):       Minimum 8.00 credits         This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.       Prerequisite(s):       DAGR*3750         Restriction(s):       DAGR*3820       Coation(s):       Ridgetown		stage of athletic development. Equestrian discipline-specific considerations are also
This course introduces students to the topics of digestion, feed nutrients, feed stuffs and feeding practices for horses.       Restriction(s): DAGR*3750         Restriction(s): DAGR*3820       Department(s): Dean's Office, Ontario Agricultural College		
feeding practices for horses.         Restriction(s):       DAGR*3820		
Restriction(s): DAGR*3820		
Department(s). Dearts office, official official conege	Department(s): Dean's Office, Ontario Agricultural College	
Location(s): Ridgetown	Location(s): Ridgetown	

32	All. Course Descriptions, Hornculture
DEQN*4320 Equine Business Venture W (3-0) [0.50]	DHRT*2100 Landscape Design W (2-4) [0.50]
In this course students will undertake a comprehensive study to develop a business plan for a new venture or develop a long term management plan for an existing equine operation. Drawing upon knowledge and skills gained from previous courses, students will complete and present a formal business report. <i>Prerequisite(s):</i> 8.00 credits, including DAGR*1070	Students will study the principles of landscape design and learn how to integrate different design styles, different types of landscape materials, structures and plants to create an attractive residential living environment. Students will learn how to identify the design requirements of a site, choose appropriate plants or structures, arrange landscape components and draw a plan of the proposed layout. Introductory drafting techniques will be practised.
Restriction(s):       DAGR*4610, DAGR*4650         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	Prerequisite(s): DHRT*1050 Department(s): Dean's Office, Ontario Agricultural College
DEQN*4500 Industry Externship W (0-0) [0.00]	Location(s): Ridgetown
This course provides students with an opportunity to develop hands-on work experience and exposure to an equine industry. The focus of this externship is to further develop professional work habits. The four-week externship, with a minimum of 140-hours, begins immediately following semester 4. A pass/fail grade will be assigned at the end of the course. If the externship is not completed satisfactorily, it will have to be successfully repeated before the student can graduate. <i>Prerequisite(s):</i> 12.0 credits <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown	DHRT*2160 Greenhouse Control Systems W (2-1) [0.50]         This course will explore computerized environmental control systems that allows growers the ability to integrate the control of all the systems involved in manipulating the greenhouse environment. While recognizing that specific systems for environmental control can vary and change from one greenhouse to the next, as well as over time, there are basic requirements for environmental control that all greenhouses must meet to be able to produce a successful crop.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):
Horticulture	DHRT*2200 Plant Propagation W (2-2) [0.50]
DHRT*1000 Landscape Management F (2-3) [0.50]	This course covers the principles and practices of propagation for horticultural plants.
The use of hand tools, power machinery, and traditional and contemporary methods in the on-going maintenance of landscape installations will be presented, along with proper equipment operation and safety. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown	Sexual (seed) propagation to include seed maturation, dormancy and seed germination; vegetative (asexual) propagation, including division, layering, budding, grafting and tissue culture are also discussed. <i>Prerequisite(s):</i> DAGR*1200 <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
DHRT*1050 Plant Identification I F (2-3) [0.50]	DHRT*2230 Soil and Water Use in Agroecosystems W (3-2) [0.50]
This course provides an introduction to the identification of common landscape plants.         Students will learn to identify plants by sight through recognition of subtle differences.         Botanical names will be taught. Growing requirements, physical features, ornamental characteristics and potential landscape uses will be discussed.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This course examines the role of agriculture, landscape horticulture and nursery production on soil processes and properties, and water resources. The course will examine best management practices to conserve soil and water resources and enhance the quality of the ecosystems of which they are a part. In the course, soil and water conservation techniques including plant selection, xeriscaping, the use of ground covers, and dry shade gardening will be covered. The student will also be introduced to various aspects of the hydrologic cycle in the context of designing landscapes and production systems to reduce
Students will learn the basics of greenhouse design and use. Topics such as structures, ventilation, heating, supplemental lighting, relative humidity, irrigation, fertility management and CO2 enrichment will be included. Management and cultural principles	water use. Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown
of commercial production of various horticultural crops in greenhouses will be used to	DHRT*2250 Horticultural Equipment Management W (2-3) [0.50]
illustrate management strategies.         Prerequisite(s):       DAGR*1200         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This course examines common equipment used for horticultural practices. The student will develop the skills and knowledge to be able to maintain, adjust and repair equipment used in horticulture. A focus on shop practices and use of shop tools will be covered. This course will emphasize safety in all aspects of operation and use of equipment.
DHRT*2050 Ecological Principles of Managed Landscapes W (3-2) [0.50]	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
This course focuses on ecological interactions in various situations related to horticulture	DHRT*3050 Plant Identification II F (2-3) [0.50]
and the environment - managed landscapes, greenhouses, nurseries. The adaptations of plants to specific environmental conditions and their ecological interrelatedness with other species, life histories, metapopulations and how these influence community structure. Students will acquire skills to produce native plant species in the greenhouse. Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown DHRT*2090 Introduction to Landscape Construction W (2-3) [0.50]	This is an advanced course continuing the identification of landscape plants. Growing requirements, physical approximate size at maturity and ornamental characteristics will be discussed for each plant. Less common taxa and additional cultivars will be highlighted. <i>Prerequisite(s):</i> DHRT*1050 <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
This course will examine materials and combinations of materials commonly used in	DHRT*3120 Applied Landscape Construction F (1-4) [0.50]
landscape structures. Construction methods and common practices for a variety of         landscape projects will be described and demonstrated. Use of the survey level and rod         for taking elevations and for projects layout will be demonstrated. Information given will         be suitable for taking pertinent Certified Horticultural Technician examinations. (Also         offered through distance education format.)         Prerequisite(s):       DHRT*2100         Restriction(s):       Intended for Horticulture Diploma students.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This course provides training and practice in applied landscape construction techniques and safe work habits. Structures such as walls, paved areas, fences, lighting, water features and planting areas will be laid out and installed. Construction practices including base preparation, installation, backfilling and completion/finishing will be explored under supervision of trained landscape design-build experts. Skills will be evaluated at the Certified Horticultural Technician (CHT) level. <i>Prerequisite(s):</i> DHRT*2090 <i>Restriction(s):</i> Intended for Horticulture Diploma students. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown
	DHRT*3150 Nursery Management F (2-3) [0.50]
	The course covers the setup and organization of a horticultural nursery and the methods of production for field and container-grown landscape nursery stock including cultural management and merchandising in wholesale and retail operations. <i>Prerequisite(s):</i> DHRT*2200 <i>Department(s):</i> Dean's Office, Ontario Agricultural College
	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown

DHRT*3170 Horticultural Weed Science F (3-0) [0.50]	DHRT*4150 Landscape Construction Project W (2-3) [0.50]
Identification of common weeds in horticulture, methods of weed control, herbicide mode	Students will develop the capacity to develop a typical landscape construction structure
of action and basis of selectivity are the primary areas included in this course.	and project installation through the preparation of working document and specification
Prerequisite(s): DAGR*1200	information. Codes, bylaws, and regulations governing the landscape construction segmen of the horticulture industry will be discussed. Real-life scenarios - client wish lists, suitable
Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown	sites, project requests - will be used to develop the skills and capabilities to outline typica
DHRT*3180 Greenhouse Structures and Engineering F (2-2) [0.50]	landscape construction projects, including walls, decks, patios, fences and screens, wate
This course describes the component parts of a typical vegetable production greenhouse	features, lighting, irrigation, and drainage. <i>Prerequisite(s):</i> DHRT*2090, DHRT*3120
and will focus on the set-up and organization of the greenhouse. This includes greenhouse	<i>Restriction(s):</i> Enrolment in the Horticulture Diploma program.
design and how design affects the greenhouse environment, ventilation, temperature	Department(s): Dean's Office, Ontario Agricultural College
control, light, glazing material, CO2, relative humidity and heat loss	Location(s): Ridgetown
Prerequisite(s): DHRT*2000 Department(s): Dean's Office, Ontario Agricultural College	DHRT*4190 Greenhouse Vegetable Production W (3-2) [0.50]
Location(s): Ridgetown	This course covers production practices for major and some minor greenhouse vegetabl
DHRT*3300 Greenhouse Ornamental Production F,W (3-2) [0.50]	crops. Students will apply management techniques to greenhouse vegetable production including fertility, production systems unique to vegetable production, insect and diseas
Production practices of selected greenhouse ornamental crops, pot crops and cut flower	control, advanced computer controls of the environment and irrigation techniques.
crops will be demonstrated.	Prerequisite(s): DHRT*2000
Prerequisite(s): DHRT*2000, DHRT*2200	Department(s): Dean's Office, Ontario Agricultural College
Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown	Location(s): Ridgetown
DHRT*3510 Experiential Learning in Horticulture S,F,W [0.50]	DHRT*4200 Greenhouse Integrated Pest Management W (3-2) [0.50]
Student-initiated learning opportunities can be developed as a credit course in consultation	This course will introduce students to integrated pest management (IPM) in the greenhouse, including cultural, biological, and chemical controls. Key components o
with a supervising faculty member. Details of the activities included in the program will	effective pest and disease control programs include: crop monitoring, cultural control
be outlined in a learning contract initiated by the student and agreed to by the faculty	resistant cultivars, biological control and chemical control.
supervisor prior to the commencement of the work experience.	Offering(s): First offering - Winter 2020
<i>Prerequisite(s):</i> 4.00 credits <i>Restriction(s):</i> DAGR*3510, DFN*3510 Registration in the Diploma Program in	Prerequisite(s): DHRT*2000 Department(s): Dean's Office, Ontario Agricultural College
Horticulture.	Location(s): Ridgetown
Department(s): Dean's Office, Ontario Agricultural College	DHRT*4290 Advanced Greenhouse Vegetable Production W (3-3) [0.50]
Location(s): Ridgetown	Building on topics covered in greenhouse production courses, this course will examin
DHRT*3910 Special Study Project S,F,W (0-0) [0.50]	production mediums (soil, rockwool, coco fibre, nutrient film technique and hydroponics)
A self-directed student project focusing on a topic of academic and/or practical interest	analytical testing, and diagnosing nutrient disorders. Students will also examin
to the student. The student will identify and propose a detailed course outline to be reviewed and approved by the faculty supervisor prior to the commencement of the	post-harvest considerations of greenhouse vegetable crops. <i>Offering(s):</i> First offering - Winter 2020
project. The project could include a research assignment, a literature review, a hands-on	Offering(s): First offering - Winter 2020 Prerequisite(s): DHRT*4190
assignment with specific learning objectives and milestones for achieving these objectives.	Department(s): Dean's Office, Ontario Agricultural College
Prerequisite(s): 4.00 credits	Location(s): Ridgetown
<i>Restriction(s):</i> DAGR*3900, DFN*3910 Registration in the Horticulture Diploma Program Written permission of the faculty supervisor.	DHRT*4300 Arboriculture W (2-3) [0.50]
Department(s): Dean's Office, Ontario Agricultural College	This course will provide students with the opportunities to learn both the principles and
Location(s): Ridgetown	the skills necessary to manage and care for trees in the landscape. Case studies will b used to help students develop the skills necessary to assess tree problems.
DHRT*4000 Ornamental Plant Protection W (3-2) [0.50]	Prerequisite(s): DHRT*1050
This course is a study of the biology and control of insects and diseases of nursery,	Department(s): Dean's Office, Ontario Agricultural College
landscape, turfgrass and greenhouse crops. Approaches to integrated pest management are incorporated into control methods.	Location(s): Ridgetown
Prerequisite(s): DAGR*1200, DHRT*1050	Turfgrass Management
Department(s): Dean's Office, Ontario Agricultural College	DTM*1000 The Turf Industry F (1-4) [0.50]
Location(s): Ridgetown	This course introduces the turfgrass industry and the many disciplines within the industry
DHRT*4050 Certification and Safety F (3-2) [0.50]	Economic and social importance of turfgrass is emphasized as is the complicate
Students will learn the necessary information required to write examinations which are	interactions among the different industry sectors. The course emphasizes learning through
a legal requirement for anyone wishing to apply or sell pesticide products in Ontario. For interested students, licensing exams can be arranged with licensing authorities upon	field trips to various turfgrass operations and operations that supply the turfgrass industry <i>Department(s):</i> Department of Plant Agriculture
payment of relevant fees. Students will be introduced to federal and provincial legislation	DEpartment(s). Department of Flant Agriculture DTM*1100 Plant Biology F,W (3-2) [0.50]
governing worker health and safety in the workplace. In particular WHMIS, risk analysis,	This course covers the basic structure and function of plants and the major function
poisoning, First Aid, labeling and storage & disposal are covered.	involved in growth and reproduction as they relate to the production of plants. Topics t
Prerequisite(s):         DAGR*1600           Department(s):         Dean's Office, Ontario Agricultural College	be discussed will include: plant processes such as photosynthesis, respiration, transpiration
Location(s): Ridgetown	nutrient uptake and reproduction, basic genetic principles, basic chemistry and the
	relationship and importance of plant science to the agricultural, horticultural and turfgras industries.
	Offering(s): Also offered through Distance Education format.
	Equate(s): DAGR*1200
	Department(s): Department of Plant Agriculture
	DTM*1200 Turf Equipment F (2-2) [0.50]
	This course covers the equipment used as part of a turfgrass maintenance operation. The
	course emphasizes safe, efficient operation of equipment along with selection of equipment
	in a maintenance operation. The course also introduces the maintenance of small engines

hydraulic and electrical systems common to turfgrass equipment.

Department(s): Department of Plant Agriculture

54	XII. Course Descriptions, Turfgrass Management
DTM*1300 Turf Soil Principles F (3-2) [0.50]	DTM*2600 Turf Environmental Management W (2-3) [0.50]
This course covers the basic concepts of naturally occurring soils and constructed rootzones used for turfgrass and landscapes. Physical, chemical and hydrological properties of soils and rootzones are emphasized in how they interact with turfgrass management. In addition, the course introduces primary and secondary nutrients and how soils impact their availability. Specific understanding of rootzones used in golf and sports turf is emphasized. <i>Department(s):</i> Department of Plant Agriculture	This course covers the many environmental issues encountered by professional turfgrass managers in golf, sports and lawn turfgrass operations. The course addresses regulatory issues, waste management, environmental protection and monitoring, including both the turf and non-turf elements of the landscape. The course is designed to prepare students for landscape pesticide applicator licence exams in a number of jurisdictions. <i>Prerequisite(s):</i> DTM*1000, DTM*1300 <i>Restriction(s):</i> DTM*4100.
DTM*1400 Landscape Plants F (2-3) [0.50]	Department(s): Department of Plant Agriculture
The course covers recognition, identification, naming, physical features and cultural adaptation of native and introduced woody and herbaceous plants found in cultivated landscapes. Students will be able to identify plants in the landscape and from portions of plants in the laboratory. The course prepares the students for future courses by providing them with tools for future learning. <i>Co-requisite(s):</i> DTM*1100 <i>Department(s):</i> Department of Plant Agriculture	DTM*3000 Turf Management II F (3-2) [0.50] This course emphasizes interactions between turfgrass and its environment and how management impacts turfgrass playability and survival. This course addresses management of turfgrasses in highly managed areas of golf courses, sports fields and lawns. Students learn the principles of plant nutrition and the technologies and methods of proper fertilization. This course specifically addresses rootzone management and remediation of poor rootzones.
DTM*1500 Turf Communication Skills W (3-0) [0.50]	Prerequisite(s): DTM*2000, DTM*2100
The course provides students with the skills to develop good written and oral	Department(s):         Department of Plant Agriculture           DTM*3100 Current Turf Practices F (3-0) [0.50]
communication skills. Practical examples enable students to speak and write effectively in the field of turfgrass management. The course also includes an introduction to group management skills and students will be required to work independently and meet in focus groups and complete work outside of scheduled class time. <i>Co-requisite(s):</i> DTM*1000	This course provides a setting to discuss and reflect on summer work experiences and introduces students to current trends in the golf course, sports field and home lawn industries. The course is based on discussions and seminars led by students to cover emerging trends in turfgrass management.
Department(s): Department of Plant Agriculture	Prerequisite(s): DTM*1000, DTM*2000, 4.00 credits Department(s): Department of Plant Agriculture
DTM*2000 Turf Management I W (2-3) [0.50] The course covers cultural management of turfgrasses used for different sectors of the	DTM*3200 Turf Diseases F (2-2) [0.50]
turfgrass industry including: home lawns, industrial sites, roadsides, athletic fields, municipal sites, golf courses, and reclamation of land. Students in the course learn to properly identify cool season turfgrass species. Students are also introduced to the scientific method and will gain planning and organizational skills through the development of an independent experiment during the lab session. <i>Prerequisite(s):</i> DTM*1100, DTM*1300	This course covers the ecology and management of turfgrass diseases and disorders and cultural, biological and chemical means of control. Identification and diagnosis of common turfgrass diseases and disorders are emphasized along with the impact of control methods on the environment and ecology of the turfgrass system. <i>Prerequisite(s):</i> DTM*1100 <i>Department(s):</i> Department of Plant Agriculture
Department(s): Department of Plant Agriculture	DTM*3300 Turf Insects and Weeds F (2-3) [0.50]
DTM*2100 Turf Irrigation and Drainage W (2-3) [0.50] This course covers water management through irrigation and drainage at sites including golf, sports and lawn turf. Students learn principles of drainage including design and installation of drainage systems. Design and maintenance of irrigation systems to provide effective water delivery are also emphasized. Prerequisite(s): DTM*1300	This course discusses the biology, ecology and management of turfgrass insects and weeds, emphasizing cultural methods of management as well as chemical and biological controls. Field recognition and diagnosis of weeds and insect pests are taught and the impact of control methods on the environment and the ecology of turfgrass systems are discussed. <i>Prerequisite(s):</i> DTM*1100
Department(s): Department of Plant Agriculture	Department(s): Department of Plant Agriculture
DTM*2200 Computers and Math for Turf W (2-3) [0.50]	DTM*3400 Landscape Construction F (2-3) [0.50]
This course requires students to become proficient in the mathematical skills necessary to properly apply fertilizers and chemicals. The course also requires students to understand how to calculate areas and other skills essential in calibration of turfgrass equipment. The course introduces students to the variety of computing skills and information technologies prevalent in the turfgrass industry today. In addition, emerging technologies	This course examines the physical properties and the appropriate uses of landscape construction materials. The impact of design, construction techniques and selection of materials are emphasized in relation to golf and sports field settings. Department(s): Department of Plant Agriculture
that assist the turfgrass professional moving into the future are discussed.	DTM*3800 Special Study Project I S,F,W (0-0) [0.50] A self-directed student project focussing on a topic of academic and/or practical interest
Prerequisite(s): DTM*1000 Department(s): Department of Plant Agriculture	to the student. The student will identify and propose a detailed course outline to be
DTM*2400 Landscape Design W (1-3) [0.50]	reviewed and approved by the faculty supervisor prior to the commencement of the project. The project could include a research assignment, a literature review, and/or a
This course covers the principles of landscape design and how different designs, landscape materials, structures and plant materials are integrated to create attractive and functional outdoor environments. The course consists of an introduction to the theory of landscape design and incorporates significant studio time in which students create designs. <i>Prerequisite(s):</i> DTM*1400 <i>Department(s):</i> Department of Plant Agriculture	project: The project could include a research assignment, a intraduce review, and/of a hands-on assignment with specific learning objectives and milestones for achieving these objectives.         Prerequisite(s):       4.00 credits         Equate(s):       DHRT*3910         Restriction(s):       Enrolment in the Associate Diploma in Turfgrass Management program.         Department(s):       Dean's Office, Ontario Agricultural College
DTM*2500 Arboriculture F (2-3) [0.50]	DTM*4000 Turf Management III W (2-3) [0.50]
This course covers the culture and maintenance of trees in golf courses, parks, lawns and other urban landscapes where trees and turfgrasses are used in combination. Students learn both the principles and practices common in the proper care of trees. Case studies help students develop skills necessary to diagnose problems with urban trees.	This course emphasizes the differences between abiotic and biotic stressors and their management. The course reinforces the principles of integrated pest management and focuses on how environmental conditions, management practices and turfgrass biology impact playability and survival of turfgrasses.
<i>Co-requisite(s):</i> DTM*1100, DTM*1400 <i>Department(s):</i> Department of Plant Agriculture	Prerequisite(s):       DTM*3000, DTM*3200, DTM*3300         Department(s):       Department of Plant Agriculture

5	5

DTM*4200 Design and Construction of Golf Courses and Sports Fields W (1-4)	Veterinary Technology
[0.50] Students will examine design and construction techniques practiced in golf course and	DVT*1000 Livestock Production and Management W (4-0) [0.50]
Students will examine design and construction techniques practiced in golf course and sports field development. The course focuses on design with the aesthetics, function and management of such facilities as priorities. Designing to conserve and reduce water use for such facilities is emphasized. <i>Prerequisite(s):</i> DTM*2400, DTM*3400 <i>Department(s):</i> Department of Plant Agriculture DTM*4300 Turf Case Studies W (3-0) [0.50]	This course introduces the students to food animals and horses, with an emphasis of terminology, nutrition, behaviour and housing. The food animal portion also include common breeds, marketing, and breeding practices of various species, including sheep poultry, dairy cattle, beef cattle and swine. The equine portion of the course emphasize the techniques, terminology and common diseases that the veterinary technician workin in an equine practice would be exposed to, through the use of lectures, slides, videos an
This course uses case studies, debates and discussion to address management, political	handouts. The colony horses provide hands-on experience in behaviour, handling, an restraint, as well as stable management.
and philosophical issues in the turfgrass industry. The course integrates knowledge of current turfgrass management practices and social awareness to solve problems and effectively communicate solutions. Problem solving skills are introduced and applied to case studies. Communication skills are emphasized including formal writing and succinct	Restriction(s):       Registration in the Associate Diploma in Veterinary Technology Conventional program.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Ridgetown
presentation skills.	DVT*1010 Anatomy and Physiology I S,F (2-2) [0.50]
Prerequisite(s):       DTM*3000, DTM*3200, DTM*3300       Co-requisite(s):       DTM*4000         Department(s):       Department of Plant Agriculture	This course encompasses the gross anatomy and physiology of domestic animals wit special emphasis on the cat as a pet animal species. The course covers all major bod systems, with emphasis on those of veterinary clinical significance.
DTM*4400 Human Resources Management W (3-0) [0.50]	Department(s): Dean's Office, Ontario Agricultural College
The course introduces students to the principles of human resource management including	Location(s): Ridgetown
personnel planning, regulations, recruiting and hiring of employees. Students develop supervisory and problem solving skills in employee relations. Proper employee training	DVT*1040 Medical Exercises I S,F (1-3) [0.50]
and regulatory considerations of both private and municipal government operations is covered. <i>Prerequisite(s):</i> DTM*1500 <i>Department(s):</i> Department of Plant Agriculture	This is a practical introductory course with an emphasis on working with dogs, cats birds, horses, cattle, sheep and pigs. Animal care and bathing are assigned to students o a rotating basis. Basic restraint, examination, medication and bandaging are discusse and practiced. Injection and venipuncture techniques are introduced.
DTM*4500 Business and Finance for Turf W (3-0) [0.50]	<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology
This course covers the basic aspects of business management and finance as they apply to turf-related enterprises. Case studies in capital expenditures and operational budgeting	Conventional or Alternative program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
will be used to help students understand how business decisions affect operations. Examples from earlier courses and the summer work experience will also be used.	DVT*1080 Laboratory Quality Assurance S,F (3-2) [0.50]
Purchasing procedures in both private and municipal government settings will be discussed.         Prerequisite(s):       DTM*3000         Restriction(s):       DTM*2300.         Department(s):       Department of Plant Agriculture	This course introduces students to quality control and the mathematical calculation required in a laboratory environment. The quality control module is an introduction t basic clinical chemistry principles, common laboratory equipment safety, quality controls mathematical calculations, and proper analytical techniques. The mathematical modul introduces the veterinary technology student to the basic mathematical concepts an skills necessary to efficiently function in a clinical laboratory environment. Basi
DTM*4600 Computer Assisted Design W (1-4) [0.50]	mathematical manipulations and calculations performed without the use of calculator
Landscape designs and visualizations will be prepared with computer technology using landscape and turfgrass related projects. Drafting, design, visualization or modeling software will be taught and used to create plans, views, pictures and/or models. <i>Prerequisite(s):</i> DTM*1400, DTM*2200, DTM*2400 <i>Equate(s):</i> DTM*4100	are encouraged. Various mathematical calculations required to perform laborationmeasurements are discussed and practiced.Offering(s):Last offering - for the Alternative Program is Summer 2017Department(s):Dean's Office, Ontario Agricultural CollegeLocation(s):Ridgetown
<i>Restriction(s):</i> Restricted to students in Associate Diploma in Turfgrass Management	DVT*1100 Large Animal Production and Management I F (0-0) [0.25]
program. Department(s): Dean's Office, Ontario Agricultural College	This course introduces the students to sheep, poultry and horses, with an emphasis o
DTM*4800 Special Study Project II W (0-0) [0.50]	terminology, nutrition, behaviour and housing. This course also includes common breeds marketing, and breeding practices of various species. The equine portion of the course
This is a self-directed student project focusing on a topic of academic and/or practical interest to the students. The student will identify and propose a detailed course outline to be reviewed and approved by the faculty supervisor prior to the commencement of the project. The project could include a research assignment, a literature review, and/or a	<ul><li>emphasizes the techniques, terminology and common diseases that the veterinar technician working in an equine practice would be exposed to.</li><li>Offering(s): Offered through Distance Education format only.</li><li>Restriction(s): Registration in the Associate Diploma in Veterinary Technology</li></ul>
hands-on-assignment with specific learning objectives and milestones for achieving these objectives. <i>Prerequisite(s):</i> 6.00 credits	program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
<i>Equate(s):</i> DHRT*3910	DVT*1110 Intro to Veterinary Technology F (0-0) [0.25]
Restriction(s):       Restricted to students in Associate Diploma in Turfgrass Management program.rolment in Diploma in Turfgrass Management.         Department(s):       Dean's Office, Ontario Agricultural College	This online course will introduce the student to fundamental concepts and skills use within veterinary medicine that will be integrated into current and future courses. Studen will study medical terminology, and concepts in genetics as they relate to veterinar medicine, as well as sanitation within an animal housing environment.
	Offering(s):Offered through Distance Education format only.Restriction(s):Registration in the Associate Diploma in Veterinary Technology Alternative program.

Alternative program. Department(s): Dean's Office, Ontario Agricultural College

Ridgetown

Location(s):

56	XII. Course Descriptions, Veterinary Technology
DVT*1150 Microbiology, Cytology and Hematology I F,S (4-4) [0.50]	DVT*2020 Haematology/Cytology S,W (2-4) [0.50]
This course consists of theoretical and practical modules in hematology, microbiology, and cytology. The hematology module will introduce students to the basic aspects of animal blood evaluation. Practical sampling techniques, handling and processing of samples, and cell identification will be introduced. Hematology mathematical calculations will also be covered. The microbiology module includes the study of microorganisms with emphasis on their morphology, physiology, biochemistry, culture, and identification. Operations of the light microscopes and laboratory safety will be discussed. The cytology	This course expands upon the information introduced in DVT*1070 . The veterinary technology student will study basic theoretical and practical aspects of feline, equine and bovine blood. Blood cell precursors will be studied and corrected counts will be included. Alterations of RBCs and WBCs will be covered. The performance, assessment and evaluation of common veterinary clinical procedures are emphasized. Haematological mathematical calculations will also be covered, as well as a section on cytology. <i>Offering(s):</i> Last offering - for Alternative Program: Summer 2018
module will introduce students to aspects of cellular and tissue sample collection, preparation, and microscopic evaluation of normal and abnormal samples from the body. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology	Operang(s):       Last onering - for Anternative Program. Summer 2018         Prerequisite(s):       DVT*1070 or (DVT*2200, DVT*2210)         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
Conventional or Alternative program.	DVT*2040 Medical Exercises II S,W (1-3) [0.50]
Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown	This course provides practical experience with venipuncture, IV catherization, anaesthesia
DVT*1160 Foundations of Veterinary Technology F (3-0) [0.50]	and aseptic surgical techniques, bird restraint, and the performance of fluid therapy and
This course introduces the students to fundamental concepts and skills used within veterinary medicine that will be integrated into current and future courses. Students will study medical terminology, concepts in genetics as they relate to veterinary medicine, applied scientific mathematics, and proper animal housing sanitation, including quarantine protocols.	<ul> <li>drug dose calculations.</li> <li>Co-requisite(s): DVT*1040</li> <li>Restriction(s): Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program.</li> <li>Department(s): Dean's Office, Ontario Agricultural College</li> <li>Location(s): Ridgetown</li> </ul>
Restriction(s): Registration in the Associate Diploma in Veterinary Technology	DVT*2050 Urinalysis W (1-2) [0.50]
program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	This is a theoretical and practical course which emphasizes the macroscopic, chemical and microscopic characteristics of urine, along with the concepts of urinary diagnostic
DVT*1300 Large Animal Production and Management II W (0-0) [0.25]	testing. The prevention and dietary treatment of urolithiasis is explored.
This course introduces the students to food animals such as beef, dairy and swine, with	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
an emphasis on terminology, nutrition, behaviour and housing. The food animal portion	DVT*2060 Communications & Vet Software S,F (2-2) [0.50]
also includes common breeds, marketing, and breeding practices of various species.	Issues dealing with communication between the veterinary technician and clients,
Offering(s):       Offered through Distance Education format only.         Restriction(s):       Registration in the Associate Diploma in Veterinary Technology Alternative program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	co-workers and the employer/veterinarian are explored using communication theory and skills. Application of theories are demonstrated through discussions and class exercises. Hands-on labs introduce the use of computers in the veterinary clinic using current veterinary clinic software programs.
DVT*1350 Pharmacology & Vet. Tech Math S (4-0) [0.50]	<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program.
This course introduces pharmacological theory and the mathematics applied to utilize pharmaceutical agents in a veterinary clinical setting. The mode of action, mechanisms	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
of absorption, distribution, metabolism and excretion of drug classes commonly used in veterinary medicine will be discussed. Students will learn applied clinical calculations,	DVT*2070 Pharmacology & Applied Calculations W (3-0) [0.50]
accurately perform drug dose and fluid therapy calculations, and analyze statistical data.         Restriction(s):       Registration in the Associate Diploma in Veterinary Technology Alternative program.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):	This course introduces pharmacological theory and the mathematics applied to utilize pharmaceutical agents in a veterinary clinical setting. The mode of action, mechanisms of absorption, distribution, metabolism and excretion of drug classes commonly used in veterinary medicine will be discussed. Students will learn to accurately perform drug dose and fluid therapy calculations, and analyze statistical data.
DVT*2000 Companion Animal Management F (6-0) [0.50]	<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology
This course offers the veterinary technician student the information required to understand small animal husbandry. Through lectures, practical information is gained into the companion animal's nutritional needs, behaviour patterns and preventative health care.	Conventional program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
Students learn what is normal and abnormal behaviour and how to advise clients on	DVT*2100 Veterinary Nursing Techniques I F (0-0) [0.25]
<ul> <li>applying proper training techniques. The emphasis in this course is the prevention of health problems in companion animals.</li> <li>Offering(s): Also offered through Distance Education format.</li> <li>Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program.</li> </ul>	This course is concerned with practical animal nursing relative to the basic needs of the animal. Students learn about general patient management, including the importance of history taking, medical records, the physical exam, patient handling, hospital safety, and fluid therapy. Students learn how to care for healthy large and small animals, maintain a hospital area, and nurse sick and injured animals.
Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown	Offering(s):Offered through Distance Education format only.Prerequisite(s):4.50 credits
DVT*2010 Anatomy and Physiology II W (4-2) [0.50]	<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology
A continuation of DVT*1010, the course covers the structure and functions of select major body systems with emphasis on the lymphatic system and its importance in preventing and/or overcoming disease. Disease transmission, development and serological	program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown
diagnosis will be discussed.	DVT*2150 Hematology II S,W (2-4) [0.50]
Prerequisite(s):       DVT*1010         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	Students will strengthen their understanding of theoretical and practical aspects of canine and feline blood evaluation. Students will be introduced to the hematology of other species, including equine, bovine, avian and exotics. Blood cell precursors and common disease processes affecting the blood will be studied. The performance, assessment and evaluation of common veterinary clinical procedures will be emphasized. Hematological mathematical calculations will also be practiced.
	Restriction(s):       Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program.         Department(s):       Dean's Office, Ontario Agricultural College
	Location(s): Ridgetown

	roduction to Immunobiology F (0-0) [0.25]	DVT*2330 Clinical Chemistry S (2-3) [0.25]
This course cove	ers the structure and function of the lymphatic system and its importance	This course emphasizes and familiarizes students with practical laboratory techniques
in preventing a	and/or overcoming disease. Disease transmission, development, and	utilized routinely in veterinary practice. The course will cover topics ranging from proper
serological diag	nosis will be discussed.	sample collecting to organ function. We will include chemistry, haemotology and cytology
Offering(s):	Offered through Distance Education format only.	in the discussion and during laboratory sessions.
Restriction(s):	Registration in the Associate Diploma in Veterinary Technology	Prerequisite(s): DVT*2200, DVT*2210
	Alternative program.	<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology
Department(s): Location(s):	Dean's Office, Ontario Agricultural College Ridgetown	program. Department(s): Dean's Office, Ontario Agricultural College
		Location(s): Ridgetown
	roduction to Anesthetic Principles F (0-0) [0.25]	DVT*2340 Exercises in Radiography I S (1-3) [0.50]
	oduces the practical and theoretical aspects of anesthetic techniques in sis is on the principles of general anesthesia using gas anesthetic machines.	This course introduces practical application of veterinary radiography. Students will
1	re sedation, general anesthesia using injectable agents, and local analgesia.	practice radiation safety, learn proper positioning techniques to produce diagnostic images,
	lize this knowledge during the laboratory sessions of Surgical Exercises.	and use analog and digital radiographic equipment on small and large animals utilizing
Offering(s):	Offered through Distance Education format only.	mechanical restraint.
Prerequisite(s):		Offering(s): First offering - Summer 2019
Restriction(s):	Registration in the Associate Diploma in Veterinary Technology	<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology
	Alternative program.	Alternative program.
Department(s):	· ·	Department(s): Dean's Office, Ontario Agricultural College
Location(s):	Ridgetown	Location(s): Ridgetown
	roduction to Radiography W (0-0) [0.25]	DVT*3000 Laboratory Animal Science S,F (3-0) [0.50]
	roduces practical and theoretical aspects of radiography in veterinary	This course familiarizes the students with scientific research involving animals, as well
	s include radiation safety, radiographic equipment (analog versus digital), adiation, intensifying screens, films, grids, and manual and automatic	as issues in veterinary ethics. Topics include the role of the veterinary technician in research, regulations governing the use of animals in research, basic steps required to
	course introduces a variety of special imaging techniques utilized in	conduct a research project, how various animal species are used in research, assessment
veterinary medic		of animal health and welfare during a research procedure, and the care and common
Offering(s):	First offering - Winter 2019 Offered through Distance Education format	diseases of research animals. Through the preparation and presentation of seminars,
JJ 0(7).	only.	students are encouraged to examine various aspects of veterinary ethics.
Prerequisite(s):		Offering(s): Last offering - for Alternative Program: Summer 2019
Restriction(s):	Registration in the Associate Diploma in Veterinary Technology	Department(s):         Dean's Office, Ontario Agricultural College           Location(s):         Ridgetown
Department(s):	Alternative program. Dean's Office, Ontario Agricultural College	
Location(s):	Ridgetown	DVT*3010 Animal Nursing I F (2-3) [0.50]
	erinary Anatomy and Physiology S (2-2) [0.25]	This course is concerned with practical animal nursing relative to the basic needs of the
		animal. Students learn about general patient management, including the importance of history taking, medical records, the physical exam, patient handling, fluid therapy and
	of DVT*1010, the course encompasses the structure and functions of ly systems of domestic animals, with emphasis on the cat as a pet animal	hospital care/safety. Common diseases and conditions are also discussed. Students are
	urse covers the following major body systems of significance in veterinary	required to care for healthy large and small animals, and maintain a hospital area. Students
	ne: cardiovascular, digestive, respiratory, reproductive, nervous, and	may also visit small, large, equine and referral practices to observe and participate in the
special senses. (	Not offered through distance education format.)	practical aspects of veterinary technology.
· · · ·	DVT*2200, DVT*2210	Department(s): Dean's Office, Ontario Agricultural College Location(s): Ridgetown
Restriction(s):	Registration in the Associate Diploma in Veterinary Technology	
	program.	
Donartmont(s):		DVT*3020 Parasitology & Clinical Chemistry F (4-4) [0.50]
Department(s): Location(s):	Dean's Office, Ontario Agricultural College	This course emphasizes practical laboratory techniques utilized routinely in veterinary
Location(s):	Dean's Office, Ontario Agricultural College Ridgetown	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry
Location(s): DVT*2310 Vete	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25]	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment;
Location(s): DVT*2310 Vete This course inco	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the
Location(s): DVT*2310 Vete This course inco colony animals	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25]	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the
Location(s): DVT*2310 Vete This course inco colony animals the students to th on all aspects o	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection.
Location(s): DVT*2310 Vete This course inco colony animals the students to th on all aspects o samples, treat si	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human
Location(s): <b>DVT*2310 Vete</b> This course inco- colony animals the students to th on all aspects o samples, treat si nursing techniqu	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection,
Location(s): <b>DVT*2310 Vete</b> This course inco colony animals the students to th on all aspects of samples, treat si nursing technique education formation	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance att.)	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory tests used in the diagnosis of animal parasites are studied/performed in the laboratory periods.
Location(s): <b>DVT*2310 Vete</b> This course ince colony animals the students to th on all aspects of samples, treat si nursing technique education forma <i>Prerequisite(s):</i>	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance att.) DVT*2200, DVT*2210	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory tests used in the diagnosis of animal parasites are studied/performed in the laboratory periods.
Location(s): <b>DVT*2310 Vete</b> This course inco colony animals the students to th on all aspects of samples, treat si nursing technique education formation	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance att.)	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory periods. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional program. <i>Department(s):</i> Dean's Office, Ontario Agricultural College
Location(s): <b>DVT*2310 Vete</b> This course ince colony animals the students to th on all aspects of samples, treat si nursing technique education forma <i>Prerequisite(s):</i>	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance att.) DVT*2200, DVT*2210 Registration in the Associate Diploma in Veterinary Technology program.	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory periods. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional program.
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Location(s): <b>DVT*2310 Vete</b> This course ince colony animals is the students to th on all aspects of samples, treat si nursing technique education forma <i>Prerequisite(s):</i> <i>Restriction(s):</i> Department(s): Location(s):	Dean's Office, Ontario Agricultural College Ridgetown <b>Prinary Nursing Techniques II S (1-3) [0.25]</b> orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance tt.) DVT*2200, DVT*2210 Registration in the Associate Diploma in Veterinary Technology program. Dean's Office, Ontario Agricultural College	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory tests used in the diagnosis of animal parasites are studied/performed in the laboratory periods. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional program.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Ridgetown       This course deals with practical and theoretical aspects of radiography in veterinary
Location(s): DVT*2310 Vete This course inco colony animals if the students to th on all aspects of samples, treat si nursing technique education forma Prerequisite(s): Restriction(s): Department(s): Location(s): DVT*2320 Surge	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance tt.) DVT*2200, DVT*2210 Registration in the Associate Diploma in Veterinary Technology program. Dean's Office, Ontario Agricultural College Ridgetown	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory tests used in the diagnosis of animal parasites are studied/performed in the laboratory periods. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional program.         Department(s):       Dean's Office, Ontario Agricultural College Location(s): Ridgetown         DVT*3030 Radiography I F (2-3) [0.50]       This course deals with practical and theoretical aspects of radiography in veterinary medicine. Lectures cover radiation safety, positioning, analog and digital radiographic
Location(s): <b>DVT*2310 Vete</b> This course inco colony animals if the students to th on all aspects of samples, treat si nursing technique education forma <i>Prerequisite(s):</i> <i>Restriction(s):</i> Department(s): Location(s): <b>DVT*2320 Surg</b> This course deal techniques in ani-	Dean's Office, Ontario Agricultural College Ridgetown erinary Nursing Techniques II S (1-3) [0.25] orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance it.) DVT*2200, DVT*2210 Registration in the Associate Diploma in Veterinary Technology program. Dean's Office, Ontario Agricultural College Ridgetown gical Exercises S (1-3) [0.25] Is with the practical and theoretical aspects of anaesthetic and surgical imals. The anesthesia part of the course builds on the knowledge aquired	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory tests used in the diagnosis of animal parasites are studied/performed in the laboratory periods. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional program.         Department(s):       Dean's Office, Ontario Agricultural College Location(s):         Ridgetown       DVT*3030 Radiography I F (2-3) [0.50]         This course deals with practical and theoretical aspects of radiography in veterinary medicine. Lectures cover radiation safety, positioning, analog and digital radiographic equipment, production of radiation, intensifying screens, films, grids, and manual and
Location(s): <b>DVT*2310 Vete</b> This course inco colony animals if the students to th on all aspects of samples, treat si nursing technique education forma <i>Prerequisite(s):</i> <i>Restriction(s):</i> <b>Department(s):</b> Location(s): <b>DVT*2320 Surg</b> This course deal techniques in ani- in Introduction to	Dean's Office, Ontario Agricultural College Ridgetown <b>erinary Nursing Techniques II S (1-3) [0.25]</b> orporates kennel and barn duties and general care and feeding of the including cats, dogs, rodents, birds and horses. It is meant to introduce he running of a veterinary clinic. Students are supervised and evaluated of animal care which fall under this broad topic. As well, they collect ick and injured animals in the colony on an as required basis. Specific ues are introduced in a more formal way. (Not offered through distance it.) DVT*2200, DVT*2210 Registration in the Associate Diploma in Veterinary Technology program. Dean's Office, Ontario Agricultural College Ridgetown gical Exercises S (1-3) [0.25] Is with the practical and theoretical aspects of anaesthetic and surgical imals. The anesthesia part of the course builds on the knowledge aquired to Anesthetic Principles. Each laboratory session is also preceded by a	This course emphasizes practical laboratory techniques utilized routinely in veterinary practice. The clinical chemistry module is an introduction to basic clinical chemistry principles. Topics of discussion will include: common laboratory safety and equipment; quality controls; mathematical calculations and proper analytical techniques. The parasitology module familiarizes the student with the host-parasite relationship for the common parasites of veterinary significance in Canada. Topics of discussion for the various parasites will include: parasite location in the host, methods of infection, development and behaviour, clinical signs of disease, diagnoses and potential human health hazards. Various laboratory tests used in the diagnosis of animal parasites are studied/performed in the laboratory periods. <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology Conventional program. <i>Department(s):</i> Dean's Office, Ontario Agricultural College Location(s):         Ridgetown       DVT*3030 Radiography I F (2-3) [0.50]         This course deals with practical and theoretical aspects of radiography in veterinary medicine. Lectures cover radiation safety, positioning, analog and digital radiographic equipment, production of radiation, intensifying screens, films, grids, and manual and automatic processing. During the laboratory sessions, the students work in small groups
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Ridgetown

Department(s): Location(s):

58	XII. Course Descriptions, Veterinary Technology
DVT*3050 Surgical and Anaesthetic Principles I F (3-3) [0.50]	DVT*3320 Veterinary Parasitology S (2-2) [0.25]
This course deals with the practical and theoretical aspects of anæsthetic and surgica techniques in animals. The lecture portion of the course introduces the students to variou anaesthetic agents and techniques, as well as the principles of asepsis, the importance of monitoring and the correct response to anaesthetic emergencies. Each laboratory sessio is also preceded by a lecture in which the students learn about the rationale behind an possible complications with each surgery, thus enabling them to be involved in clier education. During the laboratory sessions, the students work in small groups, rotatin within these groups, becoming proficient in anaesthesia, surgical assistance, instrumenta handling, surgical nursing and post-operative care. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown	d This course emphasizes and familiarizes students with practical laboratory techniques utilized routinely in veterinary practice in respect to common internal and external parasites found on small animals and food producing animals of veterinary significance in Canada. Topics of discussion for the various parasites will include: location in the host, methods of infection, development and behaviour, clinical signs of disease, prevention, diagnoses and potential human health hazards. Various laboratory tests used on various species specimens in the diagnosis of animal parasites are studied/performed
DVT*3060 Genetics F (3-0) [0.50]	Department(s): Dean's Office, Ontario Agricultural College
This course provides a basic understanding of the principles of protein synthesis, DNJ replication, heritability, selective breeding, and recombinant DNA, vaccine production and new techniques in genetic engineering, as well discussions surrounding ethical issue concerning recent genetic research.         Offering(s):       Last offering - for Alternative Program Fall 2018         Prerequisite(s):       6.00 credits         Restriction(s):       DVT*1030, Registration in the Associate Diploma in Veterinary Technology program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown	h, DVT*3330 Veterinary Clinic Management S (2-3) [0.25]
DVT*3070 Animal Dentistry I F,S (1-3) [0.50]	Prerequisite(s): DVT*3200, DVT*3210
This course introduces the fundamentals of small animal oral health, including the anatom and physiology of the tooth and surrounding structures, and the disease processes whic can occur. The emphasis is on the prevention of oral disease. Students are introduced t the proper techniques involved in performing a complete dental prophylaxis, and give	h Department(s): Dean's Office, Ontario Agricultural College Location(s): Bidgetown
the information needed to enable them to counsel clients on appropriate preventative	
home care. Offering(s): First offering - for Conventional Program: Fall 2018 First offering - for Alternative Program: Fall 2019	This course introduces the fundamentals of small animal oral health, including the anatomy and physiology of the tooth and surrounding structures, and the disease processes which can occur. The emphasis is on the prevention of oral disease. Through the use of models
Restriction(s):         Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program.           Department(s):         Dean's Office, Ontario Agricultural College	and live patients, the student is introduced to the proper techniques involved in performing a complete dental prophylaxis and is given the information needed to enable them to counsel clients on appropriate preventative home care.
Location(s): Ridgetown	<i>Offering(s):</i> Last offering - for Conventional Program: Winter 2018 Last offering - for Alternative Program: Summer 2019
DVT*3200 Public Health F (0-0) [0.25]	Department(s): Dean's Office. Ontario Agricultural College
This course is designed to introduce the veterinary technology student to the interrelatio of animal and human health. Meat inspection programs are discussed with emphasis o humane slaughter, environmental sanitation, ante mortem and post mortem examination condemned meats, animal by-products and meat labeling. As well, epidemiology zoonoses, water sanitation, microbiology of food and meat hygiene are addressed. Simple statistics that measure health and disease are also considered.	<ul> <li>DVT*4010 Animal Nursing II W (2-3) [0.50]</li> <li>A continuation of DVT*3010, concerned with practical animal nursing relative to basic needs of the animal. Students learn about general patient management, including the importance of history-making, medical records, the physical exam, patient handling, fluid</li> </ul>
Offering(s):         Offered through Distance Education format only.           Restriction(s):         Registration in the Associate Diploma in Veterinary Technology Alternative program.	therapy and hospital care. Common diseases and conditions are also discussed. Students are required to care for healthy large and small animals and maintain a hospital area. Students may visit small, large, equine and referral practices to observe and participate in the practicel expected of unteringenerate backgroups.
Department(s): Dean's Office, Ontario Agricultural College	in the practical aspects of veterinary technology.
Location(s): Ridgetown DVT*3210 Veterinary Nursing Techniques III W (0-0) [0.25]	Prerequisite(s): DVT*3010 Department(s): Dean's Office, Ontario Agricultural College
This course is concerned with practical animal nursing relative to the basic needs of th	Location(s): Ridgetown
animal. Students learn about general patient management, including the importance of history taking, medical records, the physical exam, patient handling, hospital safety, an fluid therapy. Students learn how to care for healthy large and small animals, maintai a hospital area, and nurse sick and injured animals. <i>Offering(s):</i> Offered through Distance Education format only.	f         DVT*4020 Diagnostic Techniques II S,W (1-3) [0.50]           d         This course emphasizes practical laboratory techniques routinely in veterinary practice.
Prerequisite(s): DVT*1090 or DVT*3040	small, large or mixed animal practices.
Restriction(s):       Registration in the Associate Diploma in Veterinary Technology program.         Department(s):       Dean's Office, Ontario Agricultural College	Offering(s):       Last offering - for Conventional Program: Winter 2018 Last offering         - for Alternative Program: Summer 2019         Prerequisite(s):       DVT*3020 or DVT*3200, DVT*3210
Location(s): Ridgetown	Department(s): Dean's Office, Ontario Agricultural College
DVT*3300 Veterinary Nursing Techniques IV S (1-3) [0.25]	Location(s): Ridgetown
This course incorporates kennel and barn duties and general care and feeding of th colony animals including cats, dogs, rodents, birds and horses. It will expand upon th running of a veterinary clinic as introduced in DVT*2310. Additional animal nursin techniques are introduced in a more formal way. (Not offered through distance educatio format.) <i>Prerequisite(s):</i> DVT*3200, DVT*3210 <i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology	e This course covers practical applications of all aspects of radiography in veterinary medicine. Emphasis of this course is on proper positioning, using mechanical restraint,
<i>Restriction(s):</i> Registration in the Associate Diploma in Veterinary Technology program. <i>Department(s):</i> Dean's Office, Ontario Agricultural College <i>Location(s):</i> Ridgetown	Registration in the Associate Diploma in veterinary recinology         Conventional or Alternative program.         Department(s):       Dean's Office, Ontario Agricultural College         Location(s):       Ridgetown

DVT*4040	<b>Hospital Mana</b>	gement F (3-1	) [0.50]

This course is de	pital Management F (3-1) [0.50]
	signed to familiarize students with the basic skills and procedures used
	ent of animal hospitals, with emphasis on small animal facilities. Topics this course are personnel management, client relations, marketing
	tory control, public health issues, and financial management.
Restriction(s):	Registration in the Associate Diploma in Veterinary Technology Conventional program.
Department(s): Location(s):	Dean's Office, Ontario Agricultural College Ridgetown
,	gical and Anaesthetic Principles II S,W (1-3) [0.50]
	laboratory course builds on the skills and knowledge acquired during
DVT*3050 or 1 information on requirements for	DVT*2210 and DVT*2320. The lecture portion gives background the anatomy, patient complications for each surgery, as well as the client education. Supplementary surgical lectures provide information 1 and large animal surgeries commonly performed in clinical practice.
Prerequisite(s): Department(s): Location(s):	(DVT*3050 or DVT*2210), DVT*2320 Dean's Office, Ontario Agricultural College Ridgetown
DVT*4060 Exte	ernship S,W [0.00]
students in their la The location mu Students are req graduate technic work setting. Stu they are perform on their practice not completed sa	is a four week, 160 hour training and evaluation period in which senior ast semester enter veterinary practices away from the Ridgetown Campus. Is the one in which they have not worked or volunteered previously. uired to perform many of the duties that are commonly performed by tians, and are assessed by veterinarians or graduate technicians in the idents are required to keep a journal, as well as a check list of the skills ting. At the completion of their externship, they will complete a report location. They will also be assessed by the practice. If the externship is atisfactorily, it will have to be successfully repeated before the student <b>pass/fail grade will be assigned upon completion of the course.</b>
Prerequisite(s):	Registration in DVT with 9.0 credits or DVTA program with 8.75 credits
Department(s): Location(s):	Dean's Office, Ontario Agricultural College Ridgetown
DVT*4070 Anin	nal Dentistry II S,W (1-3) [0.50]
prevention of ora	Is on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis.
prevention of ora	ls on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize
prevention of ora and develop the p <i>Offering(s):</i> <i>Restriction(s):</i>	ds on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program.
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prevention of ora and develop the p <i>Offering(s):</i> <i>Restriction(s):</i> <i>Department(s):</i> <i>Location(s):</i>	ds on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown
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prevention of ora and develop the p Offering(s): Restriction(s): Department(s): Location(s): DVT*4080 Vet. This course is a c of students to w opportunity to in	ds on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown
prevention of ora and develop the p Offering(s): Restriction(s): Department(s): Location(s): DVT*4080 Vet. This course is a c of students to w opportunity to in	ds on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown <b>Tech. Practical Applications S,W (1-3) [0.50]</b> comprehensive overview of applied, practical skills to enhance the ability vork in the veterinary industry. Students will be provided with the attegrate and apply knowledge and technical skills through case studies,
prevention of ora and develop the p Offering(s): Restriction(s): Department(s): Location(s): DVT*4080 Vet. <sup>5</sup> This course is a c of students to v opportunity to in independent students	Is on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown Tech. Practical Applications S,W (1-3) [0.50] comprehensive overview of applied, practical skills to enhance the ability work in the veterinary industry. Students will be provided with the ttegrate and apply knowledge and technical skills through case studies, ly units and laboratory exercises. First offering - for Conventional Program: Winter 2019 First offering
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prevention of ora and develop the p Offering(s): Restriction(s): Department(s): Location(s): <b>DVT*4080 Vet.</b> This course is a c of students to v opportunity to in independent stud Offering(s): Restriction(s): Department(s): Location(s): <b>DVT*4090 Labo</b> This course fam common nondor environments. R	Is on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown <b>Tech. Practical Applications S,W (1-3) [0.50]</b> comprehensive overview of applied, practical skills to enhance the ability work in the veterinary industry. Students will be provided with the tegrate and apply knowledge and technical skills through case studies, by units and laboratory exercises. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown <b>Text Struct Animal Science S,W (4-0) [0.50]</b> iliarizes students with the husbandry, handling and veterinary care of nestic species in the research laboratory, veterinary clinic and natural egulations, ethics and protocols surrounding the use of animals within
prevention of ora and develop the p Offering(s): Restriction(s): Department(s): Location(s): DVT*4080 Vet. This course is a c of students to v opportunity to in independent stud Offering(s): Restriction(s): Department(s): Location(s): DVT*4090 Labo This course fam common nondor environments. R	Is on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown <b>Tech. Practical Applications S,W (1-3) [0.50]</b> romprehensive overview of applied, practical skills to enhance the ability work in the veterinary industry. Students will be provided with the ategrate and apply knowledge and technical skills through case studies, by units and laboratory exercises. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown <b>Text offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020</b> Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown <b>Toratory &amp; Exotic Animal Science S,W (4-0) [0.50]</b> iliarizes students with the husbandry, handling and veterinary care of nestic species in the research laboratory, veterinary clinic and natural egulations, ethics and protocols surrounding the use of animals within th will be discussed. First offering - for Conventional Program: Winter 2019 First offering
prevention of ora and develop the p Offering(s): Restriction(s): Department(s): Location(s): DVT*4080 Vet. This course is a c of students to w opportunity to in independent stud Offering(s): Restriction(s): Department(s): Location(s): DVT*4090 Labo This course fam common nondor environments. R scientific researc	Is on the fundamentals of small animal oral health with emphasis on the al disease. Using models and live patients, students continue to utilize proper techniques involved in performing a complete dental prophylaxis. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown Tech. Practical Applications S,W (1-3) [0.50] romprehensive overview of applied, practical skills to enhance the ability work in the veterinary industry. Students will be provided with the ategrate and apply knowledge and technical skills through case studies, by units and laboratory exercises. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program: Summer 2020 Registration in the Associate Diploma in Veterinary Technology Conventional or Alternative program. Dean's Office, Ontario Agricultural College Ridgetown Tech. Practical Applications S,W (1-3) [0.50] Torongrehensize overview of applied, practical skills through case studies, by units and laboratory exercises. First offering - for Conventional Program: Winter 2019 First offering - for Alternative Program. Dean's Office, Ontario Agricultural College Ridgetown Dean's Office, Ontario Agricultural College Ridgeto