

CONSERVATION EDUCATION

Learn about the environment through hands-on, outdoor activities!

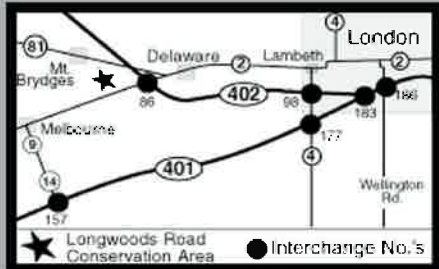
The Lower Thames Valley Conservation Authority offers a variety of activity-based field trips which relate directly to the Ontario Curriculum.

Teacher Information Packages and our Website provide Curriculum Links!

FIELD TRIPS

Explore the forests, meadows and wetlands at one of our beautiful conservation areas.

Programs are offered at Longwoods Road Conservation Area (8348 Longwoods Road) throughout the school year.



Programs are offered at C.M. Wilson Conservation Area (21799 Fargo Road) during the following months:

October, 2011 and May, 2012

* Aquatic Ecosystems and Forest Communities are the only programs offered at this location



**Come and see
us soon!**

BOOKINGS

To book a field trip

Call 519-264-2420

Monday to Friday, 9:00 a.m. to 4:30 p.m.

Programs can be booked for one or two classes at a time.
One instructor per class (group) is provided.

PROGRAM FEES

Longwoods Road Conservation Area

Half Day (1 program) - \$6.00 per student
(Minimum fee \$90.00 per class)

Full Day (2 programs) - \$11.00 per student
(Minimum fee \$165.00 per class)

C.M. Wilson Conservation Area

Half Day (1 program)
Flat rate **\$150.00 per class**

Full Day (2 programs)
Flat rate **\$275.00 per class**

Teachers and Education Assistants are admitted free.
All other chaperones pay \$6.00 each (half day) or \$11.00 each (full day).

CANCELLATION POLICY

Three weeks notice must be received to cancel any booked school program. Otherwise, an invoice for 50% of the total cost of your trip will be sent to the school. Cancellations due to inclement weather will not be penalized.



Most facilities at our Conservation Areas are wheelchair accessible. Please let us know of your student's special needs in advance.

LOWER THAMES VALLEY CONSERVATION AUTHORITY

SECONDARY LEVEL FIELD TRIPS



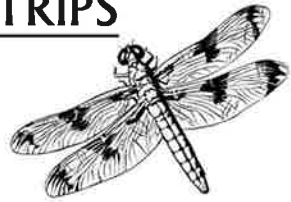
2011-2012

Longwoods Road or C.M. Wilson Conservation Area



www.ltvca.ca

FIELD TRIPS



ACID RAIN

(fall, spring)

Curriculum Links:

Geography (Grade 9, 11)

-Grade 9: Human-Env. Interactions

Global Connections, Understanding and Managing Change

-Grade 11: Human-Env. Interactions, Global Connections

Chemistry (Grade 10, 11, 12)

-Grade 10: Scientific Investigation Skills, Chemical Reactions

-Grade 11: Scientific Investigation Skills, Chemical Reactions, Solutions

and Solubility, Gases and Atmospheric Chemistry

-Grade 12: Scientific Investigation Skills, Organic Chemistry, Matter

and Qualitative Analysis, Chemistry in the Environment

Biology (Grade 9, 11, 12)

-Grade 9: Sustainable Ecosystems and Human Activity - Relating

Science to Technology, Society, and the Env., Developing Skills of

Investigation and Communication, Understanding Basic Concepts

-Grade 11: Scientific Investigation Skills, Plants in the Natural Env.

-Grade 12: Population Dynamics

Environmental Science (Grade 11) -Scientific Investigation

Skills, Human Impact on the Environment, Human Health and the

Environment, Natural Resource Science and Management

Physical Geography (Grade 11) -Human Environment Interactions,

Global Connections, Methods of Geographic Inquiry

The Environment and Resource Management (Grade 12) -Geographic

Foundations, Human-Env. Interactions, Global Connections, Understanding

and Managing Change, Methods of Inquiry and Communication

At Longwoods Road, students will collect and analyse soil and water samples by performing chemical tests for pH. Results will help determine how acid rain affects ecosystems. Time permitting, students will tour an acid rain testing facility monitored by Environment Canada.

ORIENTEERING

(fall, winter, spring)

Curriculum Links:

Health and Physical Education (Grades 9-12)

Geography of Canada (Grade 9)

-Geographic Foundations: Space and Systems

-Methods of Geographic Inquiry

Geomatics: Geotechnologies in Action (Grade 12)

-Geographic Foundations: Space and Systems

-Methods of Geographic Inquiry

Geographics: The Geographer's Toolkit (Grade 11)

-Geographic Foundations: Space and Systems-Methods of Geographic Inquiry

Students will become familiar with the parts of a compass and the sport of orienteering. After completing a short practice course using a set of bearings and compasses, students will determine the bearings of their own route to control points in the conservation area.

GPS TRAIL GUIDE

(fall, winter, spring)

Curriculum Links:

Health and Physical Education (Grade 9)

Healthy Active Living Education (Grade 11, 12)

Geography of Canada (Grade 9) -Methods of Geographic Inquiry

Geography (Grade 11) -Methods of Geographic Inquiry

Physical Geography (Grade 11) -Methods of Geographic Inquiry

Geographics Workplace Preparation (Grade 11) - Geographic

Foundations:Space and Systems,- Human-Environment Interactions

- Global Connections, -Methods of Geographic Inquiry

Travel and Tourism (Grade 11) -Methods of Geographic Inquiry

World Geography (Grade 12) -Methods of Geographic Inquiry

The Environment and Resource Management (Grade 12)

-Geographic Foundations:Space and Systems

-Methods of Geographic Inquiry and Communication

Geomatics (Grade 12) -Geographic Foundations:Space and

Systems, -Human-Environment Interactions, -Methods of Geo. Inq.

Students will use GPS and UTM grid map waypoint coordinates at Longwoods Road Conservation Area to create a trail map of the Carey Carolinian Arboretum & Trail. Trail signage and Carolinian ecosystem features can be utilized by students to create an informative trail guide of their own design.

*FOREST COMMUNITIES

(fall, spring)

Curriculum Links:

Geography of Canada (Grade 9 Academic)- Human-Environment

Interactions, Understanding and Managing Change

Science (Grade 9 and 11) - Scientific Investigation Skills (Gd. 9, 11)

-Biology: Sustainable Ecosystems (Grade 9 Academic and Applied)

(Gd. 11 Academic and Applied)

-Human Impact on the Environment (Grade 11)

Biology (Grade 11 University and College Preparation)

-Diversity of Living Things, Plants: Anatomy, Growth and Functions,

Microbiology, Plants and the Natural Environment,

Biology (Grade 12 University Preparation)

-Scientific Investigation Skills, Population Dynamics

Environmental Science (Grade 11)

-Scientific Investigation Skills, Human Impact on the Environment, Natural

Resource Science and Management, Sustainable Agriculture and Forestry,

Physical Geography (Grade 11)

-Human Environment Interactions

The Environment and Resource Management (Grade 12 University/

College and Workplace Preparation)

- Geographic Foundations, Human-Environment Interactions,

Understanding and Managing Change, Methods of Geographic Inquiry

and Communication

Students will collect data to compare a plantation to a natural forest ecosystem. Biodiversity and productivity are determined within these two sites using quadrant based plot sampling. Forest layers, succession and the effect of humans on forests will also be examined.

*AQUATIC ECOSYSTEMS

(fall, spring)

Curriculum Links:

Geography of Canada (Grade 9)- Geographic Foundations, Human-

Environment Interactions, Understanding and Managing Change,

Methods of Geographic Inquiry and Communication

Science (Grade 9 and 10)- Scientific Investigation Skills (Gd. 9 and

10), Biology (Gd. 9 Academic and Applied), Chemistry (Gd. 9 and

10 Academic and Applied)

Biology (Grade 11 and 12)

- Grade 11: Scientific Investigation Skills, Diversity of Living Things,

Evolution, Plants: Anatomy, Growth and Function, Plants in the

Natural Environment

-Grade 12 : Scientific Investigation Skills, Metabolic Processes,

Population Dynamics,

Chemistry (Grade 11 and 12)

-Grade 11: Scientific Investigation Skills, Matter, Chemical Trends and

Chemical Bonding, Chemical Reactions, Solutions and Solubility

-Grade 12: Scientific Investigation Skills, Organic Chemistry, Matter

and Qualitative Analysis, Chemistry in the Environment

Environmental Science (Grade 11 Univ./Coll. and Workplace) Scientific

Investigation Skills, Scientific Solutions to Contemporary Environmental

Challenges, Human Health and the Environment, Reducing and Managing

Waste, Human Impact on the Environment,

Physical Geography (Grade 11 University/College Preparation)

-Geographic Foundations, Human-Environment Interactions, Methods

of Geographic Inquiry

The Environment and Resource Management (Grade 12 University/

College and Workplace Preparation)- Geographic Foundations, Human-

Environment Interactions, Global Connections, Methods of Geographic

Inquiry and Communication, Understanding and Managing Change



After learning about the characteristics and benefits of wetlands, flora and fauna of aquatic ecosystems will be surveyed. Water samples will be collected and analysed using various testing methods. Students will learn about the human impact on wetland ecosystems.

PREDATOR-PREY GAME

(fall, winter, spring)

Curriculum Links:

Health and Physical Education (Grades 9-12)

-Physical Activity, Active Living (all Grades)

Biology (Grade 9, 11 and 12)

-Grade 9 (Academic and Applied)

-Grade 11: Diversity of Living Things, Microbiology, Plants in the Natural Environment

-Grade 12: Metabolic Processes, Population Dynamics

Geography (Grade 9 Academic)- Human-Environment Interactions

Physical Geography (Grade 11)

-Geographic Foundations: Space and Systems

Environmental Science (Grade 11 University/College and Workplace

Preparation)- Scientific Investigation Skills, Human Impact on the

Environment, Natural Resource Science and Management

The Environment and Resource Management (Grade 12 University/

College and Workplace Preparation)-Geographic Foundations, Human-

Environment Interactions,

Students will play the roles of animals, elements and disease in this simulated game of survival. In order to survive, students will use tracking skills and camouflage techniques while finding sufficient food and water. Interrelationships, adaptations and the human impact on wildlife populations will be discussed.



SNOWSHOEING

(winter)

Curriculum Links:

Health and Physical Education (Grades 9-12)

- Physical Activity, Active Living (all Grades)

At Longwoods Road, students will learn how snowshoes are used and maintained. During the snowshoe hike students will play games and explore winter habitats. Discover how animals survive the winter and some of the signs of wildlife including animal tracks.

Programs are supported by:

Lower Thames Valley Conservation Foundation
TD Friends of the Environment Foundation - Lambton
Member Municipalities of the
Lower Thames Valley Conservation Authority