Area of Interest: Sport and Recreation

Outdoor Adventure Naturalist (Co-op and Non Co-op Version)

Ontario College Diploma  Academic Year: 2020/2021
43 Weeks  Program Code: 6783X04FPM
Pembroke Campus

Our Program

Prepare for an exhilarating career in nature, adventure or ecotourism sectors.

The two-year Outdoor Adventure Naturalist Ontario College Diploma program, delivered in a compressed format over 43 weeks, is the perfect choice for anyone interested in working as a professional in the adventure/ecotourism sector, guiding and educating clients through interpretation of natural environments. It has been created with our partner, Wilderness Tours, Canada’s largest outdoor adventure company.

As a student, you spend more than 550 hours completing field study and practical skills training in outdoor settings/classrooms.

Explore areas such as:

- river touring (kayak touring and gentle rafting)
- no-trace camping and wilderness travel skills
- cross-country cycle touring
- flatwater canoeing
- astronomy
- winter camping skills
- tracking
- wildlife viewing
- photography
- wild edible plants
- birding

Complete extended activity skills training sessions and take on several expeditions - the last being self-executed. The program’s curriculum also includes business courses in interpretive media, marketing and financial and small business management to enhance your career options and pathways.

Students also have the option to gain real-world experience through a paid co-operative education (co-op) work term (see Additional Information for more details). Please note that places in the co-op version of the program are subject to availability. Students who elect to apply to the non co-op version of the program may not have the opportunity to transfer to the co-op version at a later date.

Obtain several industry-related certifications such as:

- Canadian Wildlife Federation (CWF) Wild Educator Facilitator
• Cycle Tour Guide
• Paddle Canada Intermediate Lake Skills and/or Introduction Lake Tandem or Solo Instructor
• Wilderness First Responder (WFR)
• Paddle Canada Level I or II Sea Kayak Skills
• Heritage Interpreter Certification
• Leave No Trace (LNT) Master Educator

Upon graduation, you are ready for an exciting, in-demand career. Be prepared to work as:
• nature and heritage interpreters
• nature or ecotourism guides
• program managers
• entrepreneurs

Graduates may also pursue entrepreneurial opportunities in the nature/adventure/ecotourism sectors.

SUCCESS FACTORS

This program is well-suited for students who:
• Enjoy a hands-on approach to learning about the outdoor adventure tourism industry.
• Are concerned about Social, Economic and Environmental (SEE) sustainability and want to personally learn more about SEE sustainability in the Outdoor Adventure Tourism industry.
• Are committed to guiding and teaching others in a variety of environments.
• Are interested in learning the skills and abilities required to become an Interpretive/Nature based guiding professional.

Employment

To meet the expressed industry needs of provincial, national and international adventure tourism, parks and education centres, graduates are trained and prepared to work as nature and heritage interpreters, nature or ecotourism guides, program managers and/or entrepreneurs. They also meet the professional standards established by the Canadian Tourism Human Resources Council Heritage Interpreter program.

Learning Outcomes

The graduate has reliably demonstrated the ability to:
• Create risk management systems, consistent with best practices, that assess risk and exposure, manage liability and provide a safe and sustainable environment for clients, staff and resources.
• Provide leadership through the professional application of risk, group and time management skills.
• Develop the conceptual framework necessary to consistently identify and interpret ecological concepts, plants, trees, wildlife, constellations and other naturally occurring phenomenon.
• Plan, market, deliver and evaluate sustainable nature based interpretive programming for a variety of domestic and international clients.
• Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental
• Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

• Display the technical skills required for employment through the acquisition of industry recognized certifications.

• Identify and develop business, marketing, management and financial strategies to capitalize on opportunities in the nature, interpretive and eco/sustainable tourism segment of the outdoor adventure industry.

**Program of Study**

<table>
<thead>
<tr>
<th>Level: 01</th>
<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ADN7104</td>
<td>Ecology</td>
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<tr>
<td>ADN7112</td>
<td>Flora for Naturalists</td>
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</tr>
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<td>ADN7116</td>
<td>Fall Camp</td>
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<td>DAT7110</td>
<td>Computer Applications</td>
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<td>ENL7777</td>
<td>Communications I</td>
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<td>OAD7130</td>
<td>Leadership for Nature/Interpretive Guides</td>
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<td>OAD7512</td>
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<td>OAD7517</td>
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**Elective: choose 1**

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<tr>
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<td>OAD7526</td>
<td>Rock Wall, Rope and Challenge Course Supervision</td>
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<td>ADN7101</td>
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<td>ADN7129</td>
<td>Tracking and Wildlife Viewing</td>
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<td>ADN7140</td>
<td>Wildlife and Birding</td>
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<td>ENL7643</td>
<td>Literature and the Environment</td>
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<td>MKT7200</td>
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<td>MTM7201</td>
<td>Interpretive Media</td>
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<td>OAD7003</td>
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<td>OAD7006</td>
<td>Winter Travel, Safety and Tracking</td>
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<td>OAD7218</td>
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<tr>
<td>OAD7523</td>
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**Elective: choose 1**

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<td>PHO7221</td>
<td>Photography for Naturalists</td>
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<tr>
<td>ADN7141</td>
<td>Interpretive Program Design and Delivery Project</td>
<td>42.0</td>
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<tr>
<td>ADN7149</td>
<td>Student Directed Field Trips</td>
<td>42.0</td>
</tr>
<tr>
<td>ADN7150</td>
<td>Wild Edibles and Small Plant Identification</td>
<td>48.0</td>
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<tr>
<td>GEO7000</td>
<td>Geology and Landforms</td>
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<td>MGT7334</td>
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<td>OAD7404</td>
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<td>OAD7505</td>
<td>Leadership Camp</td>
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<tr>
<td>OAD7540</td>
<td>Sea Kayak Expedition</td>
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Outdoor Adventure Naturalist (Co-op and Non Co-op Version)

Elective: choose 1

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</tr>
<tr>
<td>OAD7405 Ecotourism and Sustainable Development</td>
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Choose one from equivalencies:

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<th>Courses</th>
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<tr>
<td>GED6783 General Education Elective</td>
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Fees for the 2020/2021 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at [https://www.algonquincollege.com/fee-estimator](https://www.algonquincollege.com/fee-estimator).

Further information on fees can be found by visiting the Registrar’s Office website at [https://www.algonquincollege.com/ro](https://www.algonquincollege.com/ro).

Fees are subject to change.

Additional program-related expenses include:

- **Clothing and Equipment:** Students need appropriate clothing and equipment to participate in outdoor activities throughout the program. A complete gear list may be found on the website. Many students already own many of these items. When applicants are accepted into the program they receive a complete list of clothing and equipment required. Expect to spend $1,000 to $1,200 over the 16 months.

- **Expeditions:** Travel, food, and equipment are supplied for expeditions. Travel documents (passport and travel insurance) if required, are the responsibility of the student.

- **Student Directed Field Trip:** All expenses for this student-planned field trip are the responsibility of the student groups. This is a Level 03 course which is the culmination of the student groups’ learning and skill development in many diverse areas. Students prepay $200 towards this field trip (Incidental Fee Level 03) which is reimbursed to them upon completion and approval of a comprehensive student-directed field trip plan.

- Resources are available as hardcover and/or e-Texts. For more information and associated fees, please visit: [https://www.algonquincollege.com/coursematerials](https://www.algonquincollege.com/coursematerials).

Admission Requirements for the 2021/2022 Academic Year

**College Eligibility**

- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
  - Academic and Career Entrance (ACE) certificate; OR
  - General Educational Development (GED) certificate; OR
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of $50 (subject to change) will be charged.

**Program Eligibility**

- English, Grade 12 (ENG4C or equivalent).
- Mathematics, Grade 12 (MAP4C or equivalent).
- Prior to registration in the program, accepted applicants must:
  - Sign and submit an Outdoor Adventure Naturalist Program Assumption of Risk and Indemnifying Release form (form available online on the Outdoor Adventure Naturalist website).
• Submit Applicant Personal Information, Consent and Health Form supplied by Algonguin College.

• Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).

• IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT) Overall 80, with a minimum of 20 in each component: Reading 20; Listening 20; Speaking 20; Writing 20.

Should the number of qualified applicants exceed the number of available places, applicants will be selected on the basis of their proficiency in English and mathematics.

Admission Requirements for 2020/2021 Academic Year

College Eligibility

• Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR

• Academic and Career Entrance (ACE) certificate; OR

• General Educational Development (GED) certificate; OR

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Program Eligibility

• English, Grade 12 (ENG4C or equivalent).

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• Prior to registration in the program, accepted applicants must:

• Sign and submit an Outdoor Adventure Naturalist Program Assumption of Risk and Indemnifying Release form (form available online on the Outdoor Adventure Naturalist website).

• Submit Applicant Personal Information, Consent and Health Form supplied by Algonguin College.

• International applicants must provide proof of the subject specific requirements noted above along with proof of either: (IELTS / TOEFL) IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT) Overall 80, with a minimum of 20 in each component: Reading 20; Listening 20; Speaking 20; Writing 20.

• Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency.

Should the number of qualified applicants exceed the number of available places, applicants will be selected on the basis of their proficiency in English and mathematics.

Application Information

OUTDOOR ADVENTURE NATURALIST (CO-OP AND NON CO-OP VERSION)
Program Code 6783X04FPM

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca
Students currently enrolled in an Ontario secondary school should notify their Guidance Office prior to their online application at [http://www.ontarioccolleges.ca/](http://www.ontarioccolleges.ca/).

Applications for Fall Term and Winter Term received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.

International applicants please visit this link for application process information: [https://algonquincollege.force.com/myACint/](https://algonquincollege.force.com/myACint/).

For further information on the admissions process, contact:

Registrar’s Office
Algonquin College in the Ottawa Valley
1 College Way
Pembroke, ON K8A0C8
Local: 613-735-4700
Toll-free 1-800-565-4723
TTY: 1-866-620-3845
Fax: 613-735-4739

[https://www.algonquincollege.com/pembroke](https://www.algonquincollege.com/pembroke)

**Additional Information**

Programs at Algonquin College are Bring Your Own Device (BYOD). To see the BYOD requirements for your program, please visit: [https://www7.algonquincollege.com/byod/](https://www7.algonquincollege.com/byod/).

Apply directly to the co-op or non co-op version of this program through OntarioColleges.ca or our International Application Portal.

Cooperative education (Co-op) allows students to integrate their classroom learning with a real-world experience through paid work terms. Two academic terms prior to the cooperative education work term, students are required to actively participate in and successfully complete the self-directed co-op online readiness activities and in-person workshops.

Students must actively conduct a guided, self-directed job search and are responsible for securing approved program-related paid co-op employment. Students compete for co-op positions alongside students from Algonquin and other Canadian and international colleges and universities. Algonquin College’s Co-op Department provides assistance in developing co-op job opportunities and facilitates the overall process, but does not guarantee that a student will obtain employment in a co-op work term. Co-op students may be required to re-locate to take part in the co-op employment opportunities available in their industry and must cover all associated expenses; e.g., travel, work permits, visa applications, accommodation and all other incurred expenses.

Co-op work terms are typically 14 weeks in duration and are completed during a term when students are not taking courses.

International students enrolled in a co-op program are required by Immigration, Refugees and Citizenship Canada (IRCC) to have a valid Co-op/Internship Work Permit prior to commencing their work term. Without this document, International students are not legally eligible to engage in work in Canada that is a mandatory part of an academic program.

For more information, please visit [https://www.algonquincollege.com/coop](https://www.algonquincollege.com/coop).

The Outdoor Adventure Naturalist (ODAN) program is offered at the Pembroke Campus, which is surrounded by the fantastic natural resources of the beautiful and rugged Ottawa Valley. Sitting on the shores of the mighty Ottawa River, the Campus is in close proximity to world-renowned Algonquin Park, numerous natural history interpretive sites and its program partner, Wilderness Tours. The Wilderness Tours resort is located just 20 minutes from the Pembroke Campus.

At least two weekends per term are scheduled for expeditions and/or practical skills courses.
Outdoor Adventure Naturalist (Co-op and Non Co-op Version)

Students must attend these weekend programs. A schedule is distributed on the first day of Fall camp.

Please note that the activity skills offered in this program are subject to weather and logistical requirements.

**Statement of Responsibility, Safety and Liability:**
In order to learn the skills necessary to become an effective leader in the outdoor adventure tourism industry, students must perform beyond the limits of a mere participant and assume a greater degree of responsibility and risk.

Course activities regularly take place in remote and rugged locations. Activities, including overnight camping and daily classes, are scheduled regardless of rain, snow and cold. Remote locations may mean delay in emergency communication and time to medical treatment in the case of injury. Within any given day, there are supervised and un-supervised activities and time.

There is an inherent element of risk which is beyond human control. Only those risks that contribute to career related skills, knowledge, and experience are acceptable, as dictated by industry standards, certification, licences and specific course outlines. This is termed risk appropriate training. Risks that fall outside of the scope of industry practice are deemed inappropriate for technical training programs at Algonquin College’s Pembrooke Campus. Although every effort is made to minimize exposure to these risks, we can ultimately assume no responsibility for your safety or loss of personal equipment.

A signed liability release is required of all students before commencement of the program. An additional liability release may be required for courses delivered through subcontractors or host agencies. The student is encouraged to read these carefully and fully understand the form’s legal implications before signing. A parent/guardian release is required for minors (under 18 years of age).

For more program information, contact Ian Pineau, Program Coordinator, at 613-735-4700 ext. 2759 or mailto:pineau@algonquincollege.com.

**Course Descriptions**

**ADN7101 Interpretive Program Planning**
Students prepare to deliver sustainability, interpretive and/or educational programs by applying a basic framework in interpretive program planning and delivery. Students prepare interpretive programs, experiment with delivery methods and study existing programs. Delivering interpretive programs in an international setting and/or to an international client group is also a focus. Students prepare for the Canadian Tourism Human Resources Council Heritage Interpreter certification and cover the first two stages of that certification.

Prerequisite(s): none
Corerequisite(s): none

**ADN7104 Ecology**
A broad overview of ecological concepts and issues is provided. The ecological foundation that students need to understand the environment and the impacts of development on a variety of ecosystems is also presented. Students study ecological principles, sustaining biodiversity and humans as agents of change. These ecological principles are studied and discussed in the context of current ecological issues, as they relate to local, regional and global sustainability.

Prerequisite(s): none
Corerequisite(s): none

**ADN7106 Astronomy I**
Focused on the interpretation of various astronomical features, this course provides an introduction to the constellations of the summer night sky. Students study constellation names, location, identification and lore. Students gain sufficient knowledge of astronomical concepts to be able to interpret commonly observed phenomena for clients and guests.

Prerequisite(s): none
ADN7112 Flora for Naturalists

Designed as a comprehensive introduction to flora identification, focus is placed on identification of the trees and shrubs of Eastern Ontario. The basics of tree identification using leaf, bark, shape and fruiting structures are covered. Elements of habitat, historical use and economic value are also studied. Students have the opportunity to practise using field guides and keys to aid in tree identification.

Prerequisite(s): none

Corerequisite(s): none

ADN7116 Fall Camp

Students are introduced to their diploma program and to the skills training component. Based at the Wilderness Tours site, activities include whitewater rafting, team building activities and the start of skills training courses. The Fall Camp is a means for students to become better acquainted with the policies, procedures and expectations of their program.

Prerequisite(s): none

Corerequisite(s): none

ADN7126 Astronomy II

Students apply the skills learned in Astronomy I to the winter celestial sky. Focus is also placed on how, when and where to find stars, planets, black holes and galaxies. Students also learn about the solar system, telescopes and the past and future of the universe. Students are able to design and deliver basic programming about astronomical concepts and phenomena in the winter skies. If electing to take Astronomy II without Astronomy I (Level 01) students may be required to complete a foundational knowledge module prior to taking Astronomy II.

Prerequisite(s): none

Corerequisite(s): none

ADN7129 Tracking and Wildlife Viewing

Students are introduced to the art and science of animal tracking and viewing in the wild. Track, scat and animal signs are studied, as well as global perspectives on sustainable harvesting practices. Identification, use of field guides and interpretation are the focus. In addition, students go into the field to practise the art of wildlife viewing. Dress, safety, tools, approach, viewing shelters and positioning are all studied.

Prerequisite(s): none

Corerequisite(s): none

ADN7132 Indigenous Peoples: Past, Present and Future

Students engage in a culminating performance and experience, which facilitate a synthesis of much of the program's learning within the context of Canada's indigenous peoples. Enhanced shelter building skills and gentle interactions with the land to find water and stay warm are priority requirements. Food source recognition, as well as collection and processing of available wild foods and the creation of fire are also priorities. These skills are interwoven with sessions, presentations and/or discussions which highlight the past history of indigenous peoples, the present state of cultural knowledge and expectations for future opportunities, including collaborative opportunities in the adventure tourism industry.

Prerequisite(s): none

Corerequisite(s): none

ADN7140 Wildlife and Birding
Students learn to identify various species of fish, amphibians, reptiles, birds and mammals in order to acquire an understanding of the behavioural traits and habitat requirements of these species. Students also examine the role of the adventure naturalist guide/interpreter as public educator in the areas of sustainability and wildlife conservation. A heavy emphasis is placed on birding at the end of the course in order to take advantage of the spring migration.

Prerequisite(s): none
Corerequisite(s): none

ADN7141 Interpretive Program Design and Delivery Project
This course is a culminating performance for the Outdoor Adventure Naturalist program. Students design, plan, create and deliver a nature/adventure-based interpretation program for a host operator. The focus is centred around using industry standard interpretive program planning concepts to enhance all aspects of the host operator’s sustainability.

Prerequisite(s): none
Corerequisite(s): none

ADN7149 Student Directed Field Trips
Students explore areas of personal interest in a field trip format. In small groups, students propose, plan, fund and execute an independent field trip. Trip plans are subject to approval by the program coordinator. In this culminating performance, student groups demonstrate a synthesis of industry, activity and business skills, with a focus on integrating sustainability concepts, as well as interpretive guiding into running a commercially viable trip. The three major components of safety, travel mode (various) and interpretation are addressed equally over the duration of the course.

Prerequisite(s): OAD7523
Corerequisite(s): none

ADN7150 Wild Edibles and Small Plant Identification
Emphasis is placed on combining theory and practical application in identifying, picking and preparing edible wild plants. Using field guides, identification, interpretation and safety in the consumption of wild edibles are key topics. Students are introduced to a wide range of plants in the following categories: herbaceous plants, sedges, grasses and rushes, ferns and allies, as well as mosses, lichens and liverworts. Differentiating characteristics and use of identification keys are emphasized as critical elements of identification and interpretation of small plants.

Prerequisite(s): none
Corerequisite(s): none

DAT7110 Computer Applications
Students learn to apply, appropriately and effectively, standard word processing, spreadsheet and database software to business applications. Optimizing the utilization of their mobile learning device for both theory and skills courses is another focus. In addition, students combine these software applications with presentation software to produce effective marketing and instructional aids. Emphasis is given to software which is most common and utilized globally in an effort to enhance students’ readiness to work in an international setting/industry.

Prerequisite(s): none
Corerequisite(s): none

ENL7643 Literature and the Environment
Students examine the relationship between humans and their environment as portrayed in short stories, poetry, essays and visual media. The following themes are explored: human oneness with nature, nature as enemy, humans as exploiters and humans as caretakers. Students also have an opportunity to create their own artistic work on a sustainability theme.

Prerequisite(s): none
**ENL7777 Communications I**

Communication remains an essential skill sought by employers, regardless of discipline or field of study. Using a practical, vocation-oriented approach, students focus on meeting the requirements of effective communication. Students practise writing, speaking, reading, listening, locating and documenting information, and using technology to communicate professionally. Students develop and strengthen communication skills that contribute to success in both educational and workplace environments.

Prerequisite(s): none
Corequisite(s): none

**ENV0003 Rain Forest and Tropical Science**

Students actively participate in the Algonquin Rain Forest Project by completing a week-long field trip to Costa Rica to explore its ecosystems and the rich biological resources found in its humid tropical climate. Students appreciate the biological resources of the rain forest, the humid tropics, and the variable characteristics of the rain forest habitat, as well as examine sustainable agriculture and other environmental management practices. Students are, at times, required to hike long distances in difficult-to-navigate terrain. They are expected to reach the Algonquin Rain Forest Reserve via a whitewater rafting trip down the world-famous Rio Pacuare. Guided by professional river guides, students experience several ecosystems before arriving at the Algonquin College Forest project area. Students also study and learn at Escuela de Agricultura de la Region Tropical Humeda (EARTH University).

Prerequisite(s): none
Corequisite(s): none

**GED6783 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following five theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, Personal Understanding, and Science and Technology.

Prerequisite(s): none
Corequisite(s): none

**GEO7000 Geology and Landforms**

Understanding the Earth and its Geological System are the focus. Plate tectonics, glaciation, the atmosphere, geological structures and human interactions are covered. In addition to classroom study and experimentation, students participate in practical field trips to observe geological features characteristic of the area. Being able to synthesize and relate geological information in an interpretive manner to other courses is also a focal point.

Prerequisite(s): none
Corequisite(s): none

**MGT7334 Small Business and Financial Management**

Students learn the basic skills required to establish and operate a sustainable (economic, social and environmental) small business. Small business and financial sustainability is studied from the perspective of providing service to an international clientele. Personnel management, business finance, contracting, and marketing are covered. Students learn the components of a business plan and study other steps required to start a new business. As well, students learn practical accounting and finance concepts including the review of balance sheets, income statements and cash flow analysis. Sources of capital and funding and analyzing financial problems faced by operators in the adventure industry are also studied.

Prerequisite(s): none
Corequisite(s): none
MKT7200 Marketing the Tourism Experience

Tourism operators face unique challenges in marketing their products. Students examine navigating these challenges. Students learn fundamental marketing tools such as market analysis, product development, target marketing, pricing, selling and promotion. These marketing functions are applied against the structural features of the tourism industry as a whole and the adventure sector in particular. Tourism concepts, such as travel motivators, tourism generators, tourism sector interrelationships and economic impact are considered through the lens of marketing and promotion. Students develop depth of knowledge into a particular product or sector of the tourism industry.

Prerequisite(s): none
Corerequisite(s): none

MTM7201 Interpretive Media

Various media types that are available as tools in supporting nature-based interpretive programs are presented. Students learn the fundamental principles behind good graphic design and their direct application to print and digital media. Students then validate these skills through the analysis and/or creation of various industry media, such as posters, brochures, letterhead, business cards, press releases, audio and video digital presentations and websites. Media issues are also discussed in relation to advertising and public relations, self-promotion and trade shows.

Prerequisite(s): none
Corerequisite(s): none

OAD7003 Cycle Touring, Safety, and Interpretation

This trip leader level course focuses on cycle tour trip planning and group management skills. Students prepare and execute a multi-day on/off road cycle tour. The three major components of safety, travel mode (cycling) and interpretation are addressed in equal parts over the duration of the course. Students have the opportunity to gain a "Cycle Tour Guide" Certification.

Prerequisite(s): none
Corerequisite(s):OAD7218

OAD7006 Winter Travel, Safety and Tracking

A broad cross section of winter skills are covered, exposing students to opportunities in the global polar regions. Snowshoeing, winter camping, dressing for the environment, sleeping warm, fire starting, shelter building, water and food packing for the winter environment are some of the skills learned. Students focus on historical significance, modern interpretation, winter/spring weather forecasting and the integration of winter camping and travel skills into a soft adventure tourism package.

Prerequisite(s): OAD7512
Corerequisite(s):OAD7218

OAD7130 Leadership for Nature/Interpretive Guides

The basis for leadership and a career in the adventure tourism industry is presented. Decision making, judgement and client safety are examined through care-based learning, trip planning and interpretation. Group management skills are acquired through theory and practical exercises. An introduction to the interpretive skills required to be a Professional Guide in the nature and interpretive guiding sector of the adventure tourism industry is provided.

Prerequisite(s): none
Corerequisite(s):none

OAD7218 Risk Management - Outdoor Adventure
Outdoor Adventure Naturalist (Co-op and Non Co-op Version)

Students are exposed to theoretical and practical applications dealing with risk in the outdoor adventure industry. Risk assessment, systems-based planning and prevention, control and mitigation strategies are studied. Managing emergency situations, training, planning and documenting are covered from the guide’s perspective. The Canadian legal system, liability and negligence, waivers and releases and insurance are looked at from the business perspective. This course is considered essential to the program and, as such a passing grade is required in order to advance to the next level.

Prerequisite(s): OAD7200
Corequisite(s): none

OAD7404 Sustainable Trail Development

Students learn modern trail building techniques used to create sustainable, multi-use trails. Curriculum meets current sustainable trail building standards and practices. Students have the opportunity to gain recognition as a “Multi-Use Trail Steward”.

Prerequisite(s): none
Corequisite(s): none

OAD7405 Ecotourism and Sustainable Development

A general review of tourism and its many forms is provided followed by a strong focus on sustainable nature-based tourism and the development of such practices on an international scale. Ecotourism and responsible travel techniques are introduced and discussed. As part of the culminating performance, students take part in an Ecotourism exhibition, demonstrating the core elements of Ecotourism and its many forms of operation.

Prerequisite(s): none
Corequisite(s): none

OAD7505 Leadership Camp

Students review relevant program policies and procedures and begin their skill training courses. On their first day, students are to provide the program coordinator with documentation supporting their co-op educational employment experience, if applicable. Students are also introduced to several theory and culminating skills courses.

Prerequisite(s): none
Corequisite(s): none

OAD7512 Wilderness Travel, Safety, and Interpretation

Students examine principles and skills required to lead groups safely and with minimal impact in an outdoor environment. Applying map, compass and GPS skills; No Trace camping skills and ethics; hiking and backpacking; spring and summer weather forecasting; search and rescue for the outdoor leader; and food/cooking provisioning and preparation skills are some of the many topics covered. This foundational course in Leave No Trace (LNT) principles, camping and wilderness navigation is considered a prerequisite to the two expeditions which have a heavy navigational component; ADN7125 Winter Expedition and OAD7535 Sea Kayaking Expedition.

Prerequisite(s): none
Corequisite(s): none

OAD7517 Flatwater Canoeing

Combined with the one day Fall Camp Introduction to Canoeing, students are introduced to the basic flatwater skills that are necessary to safely enjoy canoeing. Students are educated in canoe construction, equipment and strokes, as well as tandem and solo paddling. Teaching basic canoe skills and structuring a canoe class is also an area of emphasis in this course. Students may qualify for industry certifications.

Prerequisite(s): none
OAD7521 River Touring
Students learn two forms of nature and adventure river travel. Learners actively engage in kayak touring and gentle rafting (both paddle rafting and rowing). River hydrology, paddling, guiding techniques, basic rescue and moving water awareness are emphasized. Students study guiding skills, such as group, time and risk management. Integrating these and other components into trips are examined from the perspective of being a professional in the global Outdoor Adventure Tourism Industry.
Prerequisite(s): none

OAD7523 Wilderness First Aid Skills
Professionals require a Wilderness First Aid Certificate in remote areas. Focus is placed on principles of management and decision making. Special emphasis is placed on prevention, traumatic injuries, illness assessment, accident scene management, long-term patient care, leader responsibility and liability, advanced medical aid kits, wound cleaning, evacuation procedures and working with Emergency Medical Services. Students must have current standard First Aid and "C" Level CPR prior to registering in this course.
Prerequisite(s): none
Corerequisite(s): OAD7218

OAD7526 Rock Wall, Rope and Challenge Course Supervision
Students are introduced to rock wall, rope and challenge courses as an integral part of the modern adventure industry. Course operation standards, gear use and maintenance, policies, procedures, and risk management systems are practised and/or covered in an interactive class format. Students are introduced to the basic climbing gear and belays needed to safely setup and supervise a rock wall, rope or challenge course. Students are also exposed to examples of how these elements might be used in experiential education, nature and/or interpretive programming.
Prerequisite(s): none
Corerequisite(s): none

OAD7537 Canoe Travel, Safety and Interpretation
Concepts learned in flatwater canoeing are now applied to canoe tripping. Canoe skills, LNT camp craft and leadership are adapted and applied to a multi-day canoe expedition on an Ottawa Valley river/lake system. Students may qualify for industry certifications by performing all skills to a standard that meets certification criteria. The three major components of safety, travel mode (canoeing) and interpretation are addressed equally over the duration of the course.
Prerequisite(s): none
Corerequisite(s): none

OAD7540 Sea Kayak Expedition
This multi-day expedition takes place in a large river/lake fresh water environment. Sea kayaking, Leave No Trace practices, open water hazards, lake and river environments, navigation, marine charts, land and water group management practices and ecological interpretation are among the many skills either newly learned and/or reviewed, refined and applied. Students have the opportunity to earn a Level II Paddle Canada Sea Kayak certification.
Prerequisite(s): OAD7512
Corerequisite(s): none

PHO7221 Photography for Naturalists
Emphasis is on photocomposition/interpretation and the application of photography to the outdoors and nature. Basic camera skills and terminology are introduced and students learn how to approach outdoor photography while dealing with varying lighting conditions and environmental factors. A connection between photography and the three basic tenets of sustainability (social, economic and environmental) is facilitated.

Prerequisite(s): none
Corerequisite(s): none

**WKT7102 Cooperative Education Work Term**

For students who qualify academically and who choose to participate, there is the opportunity to enhance their diploma with an officially recognized co-op designation. This designation is achieved by successfully completing a paid co-op educational employment experience where students have the chance to gain valuable work experience, network and make contacts in the industry and assess their skills and weaknesses in a real-world work environment.

Prerequisite(s): none
Corerequisite(s): none