LEVEL I
PROFESSIONAL LANDS MANAGEMENT CERTIFICATION PROGRAM (PLMCP)

For more information please contact the Anishinaabe Outreach Officer at:
Algoma University
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Sault Ste. Marie, Ontario P6A 2G4
705-949-2301 ext. 3151
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Introduction to Land Management in First Nation Contexts

Indigenous Knowledge in Natural Resource Management

Natural Resources and the Environment: Policy and Practice

Community Planning

Practicum, or Elective (GEOG and/or other courses TBD)

Overview of the Theories, Methods & Practice of Land Use Planning in Canadi-

an and Indigenous, On-Reserve Contexts

Climate Change & Communities: Impacts, Vulnerabilities & Adaptations

Overview of the Theories, Methods & Practice of Land Use Planning: A Communi-

ty Perspective (GEOG 3996)

Comprehensive, Geographical Overview of First Nation Land Management

Introduction to GIS with an Indigenous Focus to Understand GIS Applications in Land Management

Indigenous Knowledge Systems & Role in Natural Resources & Environmental Man-

agement

Indigenous Knowledge Systems & Role in Natural Resources & Environmental Man-

agement on Reserve in Indigenous Territories

Overview of the Theories, Methods & Practice of Land Use Planning: A Community Perspective (GEOG 3996)

Comprehensive, Geographical Overview of First Nation Land Management

Introduction to Geographic Information Systems (GIS)

Create symbolized maps using software

Use of a GPS

GIS in First Nation land management

Process for getting involved in natural resource management in home territories

Key Topics: GIS concepts & capa-

bilities & ethics Georeferencing

Attribute queries & GIS databases

Basic spatial analysis & research questions

Create symbolized maps using software

Use of a GPS

GIS in First Nation land management

Key Topics: Differences between Indigenous Knowledge (IK) & other knowl-
edge systems over time & space

Natural resources in homelands & potential for development & associated risks

Implications of Duty to Consult, FPIC & UNDRIP

Process for getting involved in natural resource management in home territories

Key Topics: Environmental manage-

ment, monitoring & compliance

Federal & provincial environmental assess-
ments

Environmental legislation

Species at Risk in home territories

Contaminants & waste management in home territories

Planning specific to Canadian & on-reserve Anishinaabe communities

Environmental plans

Practicum (GEOG 3016):

Work in a First Nation community in Lands Department or in an organization/govern-

ment office related to Indigenous Land Management

Closely working with a mentor and an instructor at Algoma University to partic-

ipate in hands-on learning

* All courses are 3 credits and will be taught within a Geographical Context and will include Indigenous Learning Outcomes.

Zhii Taadaa (“LET’S GET READY”)

Two Day Pre-Course University Readiness Session

Date: To be confirmed (held on a Friday and Saturday prior to course)

Time: 10:00am to 4:00pm

Location: Algoma University

Key Topics:

Land regimes in First Nations & relevant sections of the Indian Act

Responsibilities of a land manager in a First Nation

Role of Traditional Knowledge in managing lands

Environmental & natural resource legislation

Role of GIS in land management

Key Topics:

GIS concepts & capabilities & ethics

Georeferencing

Attribute queries & GIS databases

Basic spatial analysis & research questions

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“Since I had not been back to school for many years, I was getting very nervous and stressed as the first day of school was approaching… I strongly suggest to anyone going back to school to take the Pre course Readiness Session… [Zhii Taadaa]. I guarantee you your transition will be so much smoother.”

— CATHY YANDEAU, STUDENT
**ACADEMIC LADDERING OPTIONS FOR STUDENTS**

**Option I – National Aboriginal Lands Managers Association (NALMA)**

<table>
<thead>
<tr>
<th>Level I</th>
<th>+</th>
<th>Level II</th>
<th>= Professional Lands Management Certification (NALMA)</th>
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<tbody>
<tr>
<td>(18 credits - AU)</td>
<td></td>
<td>(18 credits - NALMA)</td>
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**Option II – Algoma University (AU)**

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<thead>
<tr>
<th>Level I</th>
<th>+</th>
<th>Level II (Block Transfer)</th>
<th>= Degree program (AU)</th>
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<tbody>
<tr>
<td>(18 credits - AU)</td>
<td></td>
<td>(18 credits - NALMA)</td>
<td>(36 credits can be applied to AU degree)</td>
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<tr>
<th>Level I</th>
<th>+</th>
<th>Electives (GEOG/Other Courses TBD)</th>
<th>= Akii &amp; Environmental Stewardship Certificate</th>
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<tbody>
<tr>
<td>(18 credits - AU)</td>
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<td>(12 additional credits - AU)</td>
<td>(36 credits can be applied to AU degree)</td>
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<tr>
<th>Akii &amp; Environmental Stewardship Certificate</th>
<th>+</th>
<th>Level II (Block transfer)</th>
<th>= Degree program (AU)</th>
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<tbody>
<tr>
<td>(30 credits – AU)</td>
<td></td>
<td>(18 credits – NALMA)</td>
<td>(48 credits can be applied to AU degree)</td>
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**ELECTIVE OPTIONS**

**Climate Change and Communities: Vulnerabilities, Impacts, Adaptations (3 credits)**

This course will provide students with an introduction to climate change within a geographical context, using a hands-on approach. By bringing together science and Traditional Knowledge, students will explore climate change from broad perspectives by including guest speakers, field trips, videos, group activities, and readings. Students will be introduced to climate processes, including what climate change is and how it works. The course will review climate impacts, such as forest fires, flooding, fisheries, and water resources. Students will learn about vulnerability assessments and adaptation planning to begin to strategize about appropriate responses to climate change. Students will be encouraged to explore climate change with respect to their own communities.

**An Eco Based Approach to Land Use Planning: A Community Perspective (3 credits)**

This course will provide an Aboriginal perspective to eco-based land and resource management. It will showcase an integrated planning process that includes resource management targets that guide projects, programs, plans and policies related to community based resource management. The course will examine planning areas and their relationship to ecosystem management while incorporating planning principles related to community development (i.e. zoning). In particular, it will highlight the importance of Aboriginal community knowledge and the development of effective engagement strategies. The course will be delivered in an intensive applied format in which participants will actively participate in the development of tools required to effectively complete an eco-based land use planning framework.
Certification

Students who complete the 18 credits of Level I with an overall average of 65% can apply to the National Aboriginal Lands Managers Association for a certificate for Level I and can then proceed to Level II offered through NALMA. The following flow chart shows the cycle of courses offered for Level I at Algoma University.

**MAY**

- First Intensive
  - 5½–8 days

**JUNE**

- Second Intensive
  - 6 days, Sun–Fri, 9–5

**AUGUST**

- Third Intensive
  - 5 days, Mon–Fri, 9–5

**SEPTEMBER**

- First Online Course
  - Fall Term

**JANUARY**

- Second Online Course
  - Winter Term

**FINAL**

- Elective Option
  - 1 Week Intensive, Spring Term
  - Optional Pre-Course Readiness Training (Runs 1 day)

**Welcome Orientation and Introductions**

Everyone meets Sunday afternoon at Algoma U.

**Introduction to Land Management in First Nation Contexts**

First intensive; 3 days, Mon–Fri, 9–5

**Optional Pre-Course Readiness Training**

Fri–Sun before first residency

**Intro to GIS**

Indigenous Knowledge in Natural Resource Management

**Natural Resources and the Environment: Policy & Practice**

Community Planning (Infrastructure and Land Use)

**Climate Change & Communities: Vulnerabilities, Impacts & Adaptation**

- Over 3 Months in Winter Term or 1 Week Intensive

- Practicum Placement in a Community or Organization

Akii & Environmental Stewardship Certificate (30 credits)

This certificate is awarded by Algoma University and is comprised of 30 credits made up of Level 1 (18 credits) plus 12 credits from electives from the Geography program and other courses to be determined.