

ENVT 266, Land Reclamation

3 credits, 3 hours lecture, 3 hours lab

Course Description

Reclamation objectives, practices and assessment strategies will be discussed as they relate to planned components of resource extraction activities, and as they relate to post-hoc reclamation initiatives. The focus of this course is on methods of prevention, control, and remediation of altered or degraded land as a result of human activities. This includes, but is not limited to, the decommissioning of base metal and oilsands mine sites, pipelines, and redevelopment of urban brownfields. A significant portion of the course involves synthesizing concepts from throughout the ENVT program in the form of independent projects. A heavy emphasis is placed on student-directed learning. This capstone course is taken in a student's final semester of the ENVT Diploma program.

Pre and Co-requisites

ENVT 252, ENVT 262, SOILS 210, and STAT 151

Course Learning Outcomes (CLOs)

Upon successful completion of the course, the student shall be able to:

- CLO 1: Identify, assess, minimize, and mitigate environmental degradation that can occur during extraction and utilization of natural resources.
- CLO 2: Locate and utilize key pieces of legislation and guidelines related to environmental impact assessments, monitoring, and reclamation in the province of Alberta.
- CLO 3: Develop an assessment and related reclamation plan for a hypothetical resource development project in the province of Alberta.
- CLO 4: Conduct an experiment related to land reclamation with guidance from the course instructor and other Keyano College personnel. This includes an appropriate topic, completing a risk assessment, designing, and conducting the experiment, analyzing the data, and presenting the results in a formal presentation and formal written report.

Evaluation

Assessment Type	Percentage
Assignments	20%
Research Project	40%
Exams	40%
Total	100%

Course Completion Requirements

Minimum passing mark of D or 50% is required.

Grading Scale

4.0 Grade Scale	Alpha Grade	Percentage Grade
4.0	A+	93-100
4.0	A	85-92.9
3.7	A-	80-84.9
3.3	B+	77-79.9
3.0	B	74-76.9
2.7	B-	70-73.9
2.3	C+	67-69.9
2.0	C	64-66.9
1.7	C-	60-63.9
1.3	D+	55-59.9
1.0	D	50-54.9
0.0	F	0-49.9

Land Acknowledgement

We respectfully acknowledge that Keyano College is located on Treaty 8 territory, the traditional & contemporary meeting grounds and gathering places of the Denesuline, Cree and Métis Peoples of this region. Our name, Keyano (kiyânaw in nêhiyawêwin - Cree language), translates to “we, us, our” and speaks to the connection we have as a community and our commitment to being in right relationships with the First Peoples of these lands.

Every effort has been made to ensure that information in this course outline is accurate at the time of publication. Keyano College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.

Keyano College reserves the right to modify the syllabus, curriculum, or schedule of any course/program, or to cancel a course/program entirely, at any time and for any reason. Such changes may be necessary due to unforeseen circumstances, regulatory requirements, or to ensure the highest quality of education.

Students will be notified of any significant changes as soon as possible. Keyano College is not responsible for any inconvenience or disruption caused by these changes. It is the responsibility of the students to stay informed about any updates or modifications to their courses.

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Course Outline Review Date: June 2025