

## **RE 231**

### **Field Skills II & Small Engine Repair**

**3 Credits**

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## RE 231 Version: 11



### Field Skills II & Small Engine Repair

#### Calendar Description

This course introduces students to field skills important to workers in Wildlife and Fisheries Conservation. Students receive classroom and shop training in the safe maintenance and operation of motorized field equipment, and can qualify for ATV Rider, Snowmobile Operator and Decision Making for Wetlands Management certificates.

Students are introduced to a professional organization, and **attend a Wildlife conference.**

#### Rationale

This is a required course for second-year Wildlife and Fisheries Conservation students. The course is held in the winter semester and provides students with practical field skills and network opportunities identified as important by potential employers.

#### Prerequisites

None

#### Co-Requisites

None

#### Course Learning Outcomes

Upon successful completion of this course, students will be able to

1. conduct basic maintenance and trouble-shooting procedures for a range of small engine-powered field equipment including boat motors, quads, snowmobiles, and chainsaws.
2. demonstrate how to safely load, secure and transport quads and snowmobiles.
3. demonstrate safe trailer back-up techniques.
4. complete the Canada Safety Council ATV Rider course and obtain certification.
5. complete the Canada Safety Council Snowmobile Operators course and obtain certification.
6. operate a 4WD truck and demonstrate safe procedures for vehicle extraction, towing and trailer back-up.

7. **safely carry out** battery boosting, tire changing and trailer set-up, in the field.
8. complete the Decision Making for Wetlands Management course and obtain certification.
9. gain introduction to a professional society.
10. develop professional network contacts by attending a Wildlife Conference.

## Essential Employability Skills

Essential employability skills are critical for workplace success and lifelong learning. Lakeland College prepares its graduates for the workplace and lifelong learning by integrating and promoting essential employability skills development in its curricula. Each credit course offered at Lakeland College emphasizes one or more of the following five essential employability skills:

- A. **Communication Skills** that enable individuals to listen, interpret, express, and convey knowledge and ideas so that they are received and understood.
- B. **Teamwork Skills** that enable individuals to respect the thoughts and opinions of others as they work together to plan activities, meet deadlines, complete projects, and contribute to an organization's goals.
- C. **Critical Thinking Skills** that enable individuals to conceptualize and analyze issues from various perspectives while rationally evaluating the strengths and limitations of each perspective and deciding what action to take.
- D. **Adaptability Skills** that enable individuals to respond quickly, willingly, and positively to new conditions and changing times.
- E. **Positive Attitude and Behavioural Skills** that enable individuals to be confident about themselves and to deal with people, problems, and situations with honesty, integrity, and personal ethics.

## Resource Materials

### *Required Text(s):*

Canada Safety Council. 2016. ATV Rider Course, Student Handbook. 2nd ed. Canada

Safety Council, Ottawa. 64 pp.

Canada Safety Council. 2016. Snowmobile Operators Course, Student Manual. 2nd ed. Canada

Safety Council, Ottawa. 60 pp.

Ducks Unlimited Canada. Decision Making for Wetlands Management, Participant Guide.

Ducks Unlimited Canada, Stonewall. MB. 99 pp.

**Reference Text(s):**

None

**Conduct of Course**

This course is a combination of lectures, labs and field modules. Some of this course is held on weekends, or during extended days outside of the regularly scheduled timetable. The Small Engines component (maintenance, basic operational procedures) is taught in a **series of** lecture/laboratory periods with a Trades professional. Trailing procedures, winch safety, 4WD truck operation, battery boosting and related techniques are delivered as short classes or field modules, in either small groups or class context, as required by the particular activities. Snowmobile and Quad certification are taught during extended days using an outdoor classroom and driving ranges on campus. The Decision Making for Wetlands Management is a weekend course. The Wildlife Conference is a weekend trip.

**Evaluation Procedures**

Exams may contain discussion-type, short answer, true/false, and/or multiple-choice questions.

The final grade for this course is an aggregate of the following:

1. Small Engines lab/lecture content exam	35%
2. Snowmobile safety course exam	15%
3. ATV safety course exam	15%
4. Skills and Safety Training Exam (including winching, trailering, tie-down, battery boosting, tire changing, and 4WD operation)	20%
5. Decision Making for Wetlands Management exam	15%
Total	100%

To obtain credit in this course all certification and assignments must be completed and, where appropriate, handed in on time. Attendance, unless explicitly waived by the Instructor, is required for **all of the field modules**. Late assignments are NOT graded; a grade of zero is assigned.

**Knowledge/Skills Matrix**

**Students apply and demonstrate their knowledge and skills to use**

**A. Communication Skills**

<b>A1. by listening, reading, interpreting information, and communicating effectively</b>	
	<b>Evaluation(s)/Goal(s):</b> Outcomes: 1-10
<b>A2. by using written, spoken, and/or visual formats and media to communicate and meet needs of each particular audience</b>	
	<b>Evaluation(s)/Goal(s):</b> N/A

<b>A3. by using libraries, Internet, technical publications, journals and other sources to</b>
<b>find pertinent information</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety exam; Outcome: 8-10

**B. Teamwork Skills**

<b>B1. by using interpersonal skills to create an atmosphere that maximizes the strengths of</b>
<b>group members to accomplish tasks</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety Training exam/Outcomes: 1-7
<b>B2. by using interpersonal skills to resolve conflict, relate to others, and assist others</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety Training exam/Outcomes: 9, 10
<b>B3. by contributing and listening to others as group determines realistic objectives,</b>
<b>prioritizes tasks, and identifies resources and timelines</b>
<b>Evaluation(s)/Goal(s):</b> N/A
<b>B4. by treating other members of the group open-mindedly and fairly</b>
<b>Evaluation(s)/Goal(s):</b> N/A
<b>B5. by developing tactics/strategies to accomplish tasks</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety Training exam/Outcomes: 2, 7

**C. Critical Thinking Skills**

<b>C1. by seeing critical thinking as a lifelong process of self-assessment</b>
<b>Evaluation(s)/Goal(s):</b> Outcomes: 10
<b>C2. by examining problems closely</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety Training exam/Outcomes: 2, 7
<b>C3. by examining beliefs, assumptions, and opinions, and weigh them against the facts</b>
<b>Evaluation(s)/Goal(s):</b> N/A
<b>C4. by seeking out the truth</b>
<b>Evaluation(s)/Goal(s):</b> Outcome: 10
<b>C5. by finding solutions; make decisions</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety Training exam/Outcomes: 2, 7, 10
<b>C6. by incorporating new ideas that may not necessarily agree with previous thought</b>
<b>on the topic</b>
<b>Evaluation(s)/Goal(s):</b> N/A
<b>C7. by seeing connections between topics and use knowledge from other disciplines</b>
<b>to enhance reading and learning experiences</b>
<b>Evaluation(s)/Goal(s):</b> Skills and Safety Training exam/Outcomes: 2, 7, 10

**D. Adaptability Skills**

<b>D1. by working independently or as part of team</b>
<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10

<b>D2. by carrying out multiple tasks or projects</b>	
	<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10
<b>D3. by being innovative and resourceful: identify and suggest alternative ways to get the job done</b>	
	<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10
<b>D4. by being open and respond constructively to change and uncertainty</b>	
	<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10

**E. Positive Attitude and Behavioural Skills**

<b>E1. by dealing with people, problems, and situations with honesty, integrity, and personal ethics</b>	
	<b>Evaluation(s)/Goal(s):</b> Conference, critique/Outcomes: 8-10
<b>E2. by showing interest, initiative, and effort</b>	
	<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10
<b>E3. by affirming the need for positive solutions and encourage positive interaction and feedback</b>	
	<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10
<b>E4. by balancing personal and family activities with job-related activities</b>	
	<b>Evaluation(s)/Goal(s):</b> Small Engines, Snowmobile, ATV, Skills and Safety exams, battery boosting, tire changing, & trailering, critique/Outcomes: 1-10

**Grade Equivalents and Course Pass Requirements**

*A minimum grade of D (50%) (1.00) is required to pass this course.*

Letter	F	D	D+	C-	C	C+	B-	B	B+	A-	A	A+
Percent Range	0-49	50-52	53-56	57-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-100
Points	0.00	1.00	1.30	1.70	2.00	2.30	2.70	3.00	3.30	3.70	4.00	4.00

**Students must maintain a cumulative grade of C (GPA - Grade Point Average of 2.00) in order to qualify to graduate.**

**Attendance**

Classroom and laboratory attendance is considered vital to the learning process and as significant to the students' evaluation as examinations and reports, therefore absenteeism is recorded.

- a. Students having a combination of excused and/or unexcused absence of 20 percent or higher for the scheduled course hours can be required to withdraw and would then

automatically receive a "RW" (required withdrawal) for the course, regardless of any other evaluation results. (RW is a failing grade).

- b. An excused absence is one that is verified with your instructor. Verification should be prior to the absence or the next class day following the absence. Verification of the absence may take the form of a note from your doctor/College nurse regarding illness, or a note from another instructor regarding a field trip or other activity, or authorization by your instructor following an in-person meeting. Be sure to contact your instructor and ask what they will require from you as verification for each absence. An unexcused absence is anything NOT verified by the instructor prior to the absence or the next class day following the absence.

NOTE: Any exceptions to the above attendance policy (e.g. timetable conflicts, work-related issues) must be approved in writing by the Department Chair prior to the beginning of the course.

It is the students' responsibility to know their own absentee record.

Normal hours are 8:30 a.m. to 6:30 p.m., with potential for evening courses, exams or extended field trips. Students are expected to be available for classes during these times.

## Course Units/Topics

Order variable subject to Instructor availability, weather and external agencies

1. Small Engines lectures and lab sessions (scheduled lec/lab)
2. Quad safety and operation (Canada Safety Council certification course)
3. Snowmobile safety and operation (Canada Safety Council certification course)
4. Trailer safety and back-up operations (module)
5. Loading, tie-down and transport of motorized field equipment (module)
6. 4WD truck operation, extraction, and winch safety demonstrations (module)  
Battery boosting and Tire Change (module)
7. Decision Making for Wetlands Management certification (weekend course)
8. Wildlife Conference (3-day weekend trip)



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