



COURSE OUTLINE

GEOL 103

EXPLORATION AND MINE SAFETY

**21 HOURS
1.5 CREDITS**

PREPARED BY: _____
Mary Samolczyk, Instructor

DATE: _____

APPROVED BY: _____
Margaret Dumkee, Dean

DATE: _____

YUKON COLLEGE

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Course Outline prepared by Mary Samolczyk, 08 July 2015.

Yukon College
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APPLIED SCIENCE AND MANAGEMENT DIVISION
GEOLOGY 103
1.5 Credit Course
Fall 2015

EXPLORATION AND MINE SAFETY

INSTRUCTOR: Mary Samolczyk	OFFICE HOURS: Wednesdays (1:00–2:30 pm), or by appointment
OFFICE LOCATION: A2806 (inside A2805)	CLASSROOM: TBA
E-MAIL: msamolczyk@yukoncollege.yk.ca	TIME: Lectures: (M) 1:00 – 4:00 pm
TELEPHONE: (867) 668-8898	DATES: Sept. 9, 2015 – Dec. 4, 2015

COURSE DESCRIPTION

This course provides an overview of exploration safety techniques and standards in order to prepare students for working in Yukon’s mineral industry. Training modules include, but are not restricted to: proper camp configuration and management, bear awareness training, backcountry navigation, drilling safety, and underground mine safety. The course will include a number of independent certification courses that are required for the Mineral Resources program. Lectures will be coordinated by a college instructor but will incorporate numerous guest speakers from all areas of the mining community.

PREREQUISITES

Admission to the Geological Technology, Science, or Northern Science programs; and/or permission from the instructor.

EQUIVALENCY/TRANSFERABILITY

There are no established course transfer agreements for GEOL 103.

LEARNING OUTCOMES

Upon successful completion of the course, students will:

- Understand how to live and work safely in a backcountry and/or industrial environment without putting themselves or others at direct risk.
- Understand how to safely travel to, from, and at a job site, be it the backcountry, on a forestry road, or in the air.
- Recognize how to conduct oneself around exploration drilling operations and on an active mine site.
- Know how to safely interact with wild animals in the backcountry, and the emergency procedures necessary in case an accident should occur.
- Understand government regulations regarding their rights and responsibilities as a worker in the minerals industry.

DELIVERY METHODS/FORMAT:

The course is seven weeks long, with a single 3-hour lecture each week.

COURSE EVALUATION

The GEOL 103 course will be evaluated on a pass/fail basis. Students must attend all of the regularly scheduled course lectures and participate in activities as required. Attendance will be taken. Students are encouraged to see the instructor immediately if circumstances arise that prevent them from attending a lecture class.

PLAGIARISM

Plagiarism is a serious academic offence. Plagiarism occurs when students present the words of someone else as their own. Plagiarism can be the deliberate use of a whole piece of another person's writing, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material. Whenever the words, research or ideas of others are directly quoted or paraphrased, they must be documented according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Resubmitting a paper which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the College.

ACADEMIC ACCOMMODATION

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon College Academic Regulations (available on the Yukon College website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC) at (867) 668-8785 or lassist@yukoncollege.yk.ca.

REQUIRED TEXTBOOKS/MATERIALS

Reading materials will be distributed to students throughout the course.

TOPIC OUTLINE

<p>Bear Awareness: An overview of the skills required to travel and work safely in bear country with a specific focus on working in exploration camps and on mine sites.</p>
<p>Workplace Hazardous Materials Information System (WHMIS): Maintain current WHMIS training requirements and protect yourself against controlled products and hazardous materials at work. Ensure you know how to properly read and understand labels, identifiers, and material safety and data sheets as you explore the responsibilities of suppliers, importers, distributors, employees and employers. Successfully complete the course to receive a WHMIS certificate.</p>
<p>Transportation of Dangerous Goods (TDG): Legislation requires all people involved with transporting dangerous goods to learn the skills and principles taught in this course. Protect yourself and the public by learning how to avoid dangerous accidents and understanding your responsibilities as a shipper/handler. Earn a TDG certificate (clear language edition) in the process.</p>
<p>Industrial Safety: An introduction to the general principles and concepts of working safely in an industrial setting; taught through classroom instruction and practical exercises. Instruction areas are: safety around moving machinery, fire prevention, personal protective equipment, lockout procedures when working on machinery, etc.</p>
<p>Field Worker Aircraft Safety: An introduction to safety procedures when working around helicopters and fixed-wing aircraft in a field setting. Certification course offered through Northern Safety Network Yukon.</p>
<p>Worker's Compensation Board (WCB): Learn the role of the WCB in the workplace. Discuss the rights of mineral resources employees.</p>
<p>Canadian Firearms Safety Course: This 2-day course covers the following topics: the evolution of firearms, major parts, types and actions; basic firearms safety practices; ammunition; operating firearm actions; safe handling and carry procedures; firing techniques and procedures; care of non-restricted firearms; responsibilities of the firearms owner/user; and safe storage, display, transportation and handling of non-restricted firearms. Following successful completion of this course, students may apply for their Possession and Acquisition Licence (PAL).</p>
<p>Additional training may include: Confined Space Awareness and an introduction to drill rig safety.</p>