



Term	Course Code	Course Title	Instructor	Lab component	Hours (Estimated)	Job Requirements
W1	APSC 450	Professional Engineering Practice	Jacque Nelsen* <i>Or sessional Lecturer</i>	no	Marking: 32 hrs/term	Meeting with the Instructor to review marking of assignments. Experience with Canvas/Speedgrader/Turnitin required.
W1	MINE 200	Mineral Resources Engineering I	Tonia Welch	no	Marking: 36 hrs/term Trip Support: 28 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Must be proficient in all aspects of the mining industry, considering this course is an overview of everything, and the TA should be able to answer students' questions when needed. Assigned and related class or tutorial duties as required by the Instructor; Understanding of and compliance with APSC or Department safety regulations.
W1	MINE 202	Introduction to Mining Mineralogy	Maria Holuszko	yes	Marking: 10 hrs/term Lab Support: 32 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Setting up laboratory experiments, demonstrating experiments to students, marking student reports on labs, assignments. Assigned and related class or tutorial duties as required by the Instructor; Understanding of and compliance with APSC or Department safety regulations.
W1	MINE 310 (x 590C)	Surface Mining & Design	Shervin Teymouri	yes	Marking: 32 hrs/term Lab Support: 32 hrs/term	Should be computer proficient, with a working knowledge of Vulcan and Deswik. Meet with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor. Mark labs, quizzes, and assignments
W1	MINE 331 (x 590F)	Physical Mineral Processes	Sanja Mišković	yes	Marking: 10 hrs/term Lab Support: 54 hrs/term	A degree in Mineral Process Engineering or equivalent program, and have mineral processing laboratory testing experience. Setting up mineral processing laboratory experiments (specifically involving comminution and screening equipment), demonstrating experiments to students, marking student reports on labs and assignments. Understanding of and compliance with APSC or Department safety regulations.
W1	MINE 350 (x 553)	Modeling and Simulation	Scott Dunbar	yes	Marking: 32 hrs/term Lab Support: 32 hrs/term	Experience with Excel required, and preferably with ExtendSim as well. Meet with the Instructor to go over the TA duties; Assigned and related class or tutorial duties as required by the Instructor
W1	MINE 396	Engineering Economics	Scott Dunbar	no	Marking: 64 hrs/term	Meet with the Instructor to go over the TA duties; Responsible for related class or tutorial duties as required by the Instructor (including marking group assignments).
W1	MINE 402 (x 509)	Mine Ventilation	Ali Madiseh	yes	Marking: 10 hrs/term Lab Support: 54 hrs/term	Must have experience with mine ventilation instruments, computers and wind tunnel; background in Fluid Mechanics; must have taken the course. Setting up ventilation laboratories – experimental component and the mine ventilation network computer problem; demonstrating instruments and equipment to students; marking student lab reports.
W1	MINE 432	Industrial Automation and Robotics	Ilija Mišković	yes	Marking: 10 hrs/term Lab Support: 54 hrs/term	Mining or mechanical background required. Setting up mining and mineral processing laboratory experiments, demonstrating experiments to students, marking student reports on labs, assignments and field trips. Advanced knowledge of Python and Matlab/Simulink is required. Ability to work with microcontrollers is essential.
W1	MINE 447	Dewatering of Fine Tailings	Marek Pawlik * <i>Or sessional Lecturer</i>	yes	Marking: 10 hrs/term Lab Support: 50 hrs/term	Must have experience with surface chemistry and mineral processing. Background in surface chemistry of fine particles. Familiarity with polymer applications in mineral processing. Skilled in sample preparation, operating and demonstrating instruments and equipment for students, marking student lab reports. Understand and comply with APSC or Department safety regulations.
W1	MINE 465 (x 590Y)	Materials Handling	Ali Madiseh	no	Marking: 32 hrs/term Tutorial Support: 32 hrs/term	Knowledge of Maintenance Theory; knowledge of statistics; Experience with Weibull++, Comprehensive Knowledge of multi-disciplinary design topics; must have taken course or equivalent. Assistance with development of teaching materials and homework assignments; be available to assist students with concepts taught and homework; grading homework assignments.
W1	MINE 470 (x 559)	Indegenous People and Mining in Canada	Justin Himmelright	no	Marking: 32 hrs/term	Invigilate and mark exams. Must have passed MINE 470/559 previously, as experience/knowledge with First Nations and mining in Canada is required.
W1	MINE 491	Mine and Mill feasibility	Tonia Welch	no	Marking: 32 hrs/term Tutorial Support: 32 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor. TA must have experience in mining industry and be able to advise students, as this is a course that culminates students' degrees and requires extensive knowledge of mining industry.
W2	MINE 201	Mineral Resources Engineering II	Bern Klein	yes	Marking: 32 hrs/term Lab Support: 32 hrs/term	Meet with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor; Understand and comply with APSC or Department safety regulations.
W2	MINE 302 (x 506)	Underground Mining and Design	Shervin Teymouri	yes	Marking: 32 hrs/term Lab Support: 32 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor; Understanding of and compliance with APSC or Department safety regulations. Mark Labs, quizzes, and assignments
W2	MINE 303 (x 590M)	Rock Mechanics Fundamentals	Davide Elmo	yes	Marking: 24 hrs/term Lab Support: 36 hrs/term	Must have taken MINE 303 or equivalent and be computer proficient, with a good knowledge of the Rocscience software suite. Marking assignments, assisting and demonstrating laboratory tests.

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W2	MINE 333 (x 521)	Flotation	Marek Pawlik	yes	Marking: 16 hrs/term Lab Support: 32 hrs/term	Setting up lab equipment for experiments, running labs and overseeing lab clean-up, assisting students with data interpretation and preparation of lab reports, marking of lab reports, compiling required info for accreditation purposes, may involve invigilating three one-hour in-class tests. Understanding of and compliance with APSC or Department safety regulations.
W2	MINE 380 (x 590Q)	Mine Waste Management	Luis Torres Cruz	no	Marking: 32 hrs/term Lab Support: 32 hrs/term	Must have taken MINE 380, MINE 480, or equivalent previously. Meeting with the Instructor to go over the TA duties; Invigilate midterm and final exam (2 hours each); Assigned and related class or tutorial duties as required by the Instructor. If delivery of this course is online, this may include support with break-out group discussions and assistance in preparing online modules for completion by students.
W2	MINE 403 (x MINE 505)	Rock Mechanics	Davide Elmo	no	Marking: 32 hrs/term Lab Support: 32 hrs/term	English language and computer proficiency required. Must have taken MINE 403/505 or equivalent and be computer proficient, with a good knowledge of the Rocscience software suite. Marking assignments.
W2	MINE 404 (x 590E)	Mine Management	John Steen	no	Marking: 32 hrs/term Lab Support: 32 hrs/term	Superior oral and written communications skills; positive ambitious attitude; independent working skills; a bent towards the social side of management; high energy; mining/mineral processing knowledge/experience; computer projection skills. Set up and preparation of lecture room, distribution of course materials, marking regular assignments and papers, assisting students with general course questions, keeping track of class participation, facilitating guest speaker requests, attendance at lectures.
W2	MINE 406 (x 554)	Mine Project Valuation and Risk Assessment	Carlos da Costa	no	Marking: 32 hrs/term	Invigilate and mark exams. Should have successfully completed MINE 406/554 previously.
W2	MINE 420 (x 552)	Mining Geostatistics	Ilija Mišković	no	Marking: 18 hrs/term Tutorial Support: 24 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor; Should have working knowledge of Python/Julia programming languages
W2	MINE 434 (x 524)	Processing Precious Metal Ores	Bern Klein	yes	Marking: 32 hrs/term Lab Support: 32 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor
W2	MINE 444 (x 590P)	Urban Mining: recovering values from e-waste	Maria Holuszko	yes	Marking: 32 hrs/term Lab Support: 32 hrs/term	Mining or mineral processing laboratory testing experience, running tests for gold processing. Setting up mining and mineral processing laboratory experiments, demonstrating experiments to students, marking student reports on labs, assignments and field trips. Understanding of and compliance with APSC or Department safety regulations.
W2	MINE 486	Mining and the Environment	Luis Torres Cruz	no	Marking: 32 hrs/term Lab Support: 32 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate midterm and final exam (2 hours each); Assigned and related class or tutorial duties as required by the Instructor. If delivery of this course is online, this may include support with break-out group discussions and assistance in preparing online modules for completion by students. Previous experience in water and mining, and mathematical modelling, is preferred.
W2	MINE 491	Mine and Mill feasibility	Tonia Welch	no	Marking: 32 hrs/term Tutorial Support: 32 hrs/term	Meeting with the Instructor to go over the TA duties; Invigilate final exam (2-3 hours); Assigned and related class or tutorial duties as required by the Instructor. TA must have experience in mining industry and be able to advise students, as this is a course that culminates students' degree and requires extensive knowledge of mining industry.

IMPORTANT: Please note that the number of TA positions available will not be confirmed until late July. The number of TA and Marker appointments allocated to Mining courses is based on undergraduate enrolment targets and is therefore subject to change. In addition, marking hours are calculated using an average class size for Mining Engineering courses, and these hours may be adjusted once actual student registration numbers are known. We reserve the right to offer a Marker position in lieu of a TA position should a course not meet undergraduate enrolment targets.

Note: TA must be in good standing with UBC. New TAs and returning TAs who have not participated in the Faculty of Applied Science TA training program must participate in training. The training is designed to help ensure that TAs are as successful as possible in their roles.