Course Name	Delivery Method	Required Knowledge	IT Skills
ATSC 113: Applied Meteorology (Weather for Sailing, Flying and Snow Sports)	Online, except paper final exam graded using ReMark	General weather or climate knowledge at any university level.	Excel spreadsheets for grades. UBC Canvas. ReMark grading app.
ATSC 201: Meteorology of Storms	Classroom	General meteorology/Atmos. Sci. (atmospheric thermodynamics, dynamics, and physics).	Be experienced with Excel spreadsheets.
ATSC 212: Earth and Atmospheric Science Introductory Computing Laboratory	Classroom	Computer programming and a background in EOSC or ATSC.	Computer programming (Unix, html authoring, perl scripting, fortran, c, mysql data base).
ATSC 303: Meteorological Methods (Weather Instruments)	Classroom	ATSC or Phys GEOG/climatology major. Able to work hands-on with tools, circuits, weather instruments,	Excel. LoggerNet programming for Campbell Scientific data loggers.
ATSC 313: Renewable Energy Meteorology (Weather for Hydro, Wind & Solar Power)	Online, except paper final exam graded using ReMark	General meteorology/Atmos. Sci. (atmospheric thermodynamics, dynamics, and physics).	Excel, ReMark, any of python, R, or matlab.
ATSC 404: Dynamic Meteorology	Classroom	Atmospheric science, fluid dynamics	MATLAB
ATSC 405: Cloud Physics and Chemistry	Classroom	Thermodynamics Someone with a physics thermodynamics course but no ATSC experience could do this.	MATLAB or python
ATSC 409: Numerical Techniques for Ocean, Atmosphere and Earth Scientists	Classroom	Numerical methods Best to have a student that has done the course or the grad version of the course (EOSC 511/ATSC 506)	matlab, octave or python

Course Name	Delivery Method	Required Knowledge	IT Skills
ENVR 200: Introduction to Environmental Science			
ENVR 300: Introduction to Research in Environmental Science			
ENVR 400: Community Project in Environmental Science			
ENVR 410 Energy, Environment, and Society	Classroom	A solid grounding in energy basics (sources of energy, basic characteristics of different energy conversion technologies, etc.). Familiarity with social and governance dimenisons, and environmental impacts of some energy technologies. Familiarity with current energy issues and topics would be helpful as they will be reviewing students writing on a wide range of energy topics.	Canvas, iPeer
ENVR 420: Ecohydrology of Watersheds and Water Systems			
ENVR 430: Ecological Dimensions of Sustainability			
ENVR 440: Analytical Methods in Sustainability Science	Classroom, lab, Canvas	1) Background in environmental science, and familiar with issues such as climate change, conservation, and sustainable agriculture. 2) Familiarity with cost-benefit analysis, discounting & net-present value calculation, trade-off analysis, and geospatial analysis. 3) Strong quantitative, analytical, and problem-solving skills; 4) Good experience with Microsoft Excel (including ability to enter formulas and use functions), linear regression; linear and exponential growth models	Will need to extensively use Canvas

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 110: The Solid Earth: A Dynamic Planet	Classroom	Geology, Geophysics 1st year level knowledge in broad range of topics Good written and spoken English	
EOSC 111: Laboratory Exploration of Planet Earth	Classroom	Grad students in any EOSC discipline could TA. It is helpful if I get TAs from a variety of disciplines. It's most important in this course that the TAs be interested in teaching and in developing their teaching skills. This means they have an interest in interacting with undergraduate students, and are committed to good teaching. This can be a good experience for their future careers.	
EOSC 112: The Fluid Earth: Atmosphere and Ocean	Classroom	Biological oceanography Chemical oceanography Ocean/atmosphere circulation paleoceanography climate	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 114: Catastrophic Earth	Classroom	This is a first year course so general ocean science and general earth science knowledge is required. We seek TAs with any of the following specialties, but are happy to take anyone who is friendly and works hard: -Atmospheric Science (Storms), -Oceanography (Tsunami & other waves) -Geology (Volcanoes), -Geophysics (Earthquakes), -Geological Engr (Landslides) -Paleontology (Mass extinctions)	
EOSC 114: Catastrophic Earth DE	Distance Education	This is a first year course so general ocean science and general earth science knowledge is required.	Canvas, Remark, Excel
EOSC 116: Dinosaurs' Earth	Classroom	Basic Geology. Some paleontology background (eg a undergrad course) would be useful but not essential.	
EOSC 116: Dinosaurs' Earth DE	Distance Education	Basic Geology Some paleontology background (eg a undergrad course) would be useful but not essential.	
EOSC 118: Earth's Treasures: Gold and Gems DE	Distance Education	Geology and mineralogy are the most useful for this course, however, being a first year survey course the TA would only really need the basic geological background.	Familiarity of computers and online learning environments is useful, but not a prerequisite.

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 210: Earth Science for Engineers	Classroom	Good knowledge of Geology, Geological engineering, Hydrogeology	
EOSC 211: Computer Methods in Earth, Ocean and Atmospheric Sciences	Classroom	Any discipline but needs to have knowledge of MATLAB	Solid MATLAB programmer
EOSC 212: Topics in the Earth and Planetary Sciences	Classroom	Reading scientific papers. Broad scientific interests (this is key) EXCELLENT WRITER	
EOSC 213: Computational Methods in Geological Engineering			
EOSC 220: Introductory Mineralogy	Classroom	Chemistry, mineralogy, petrology, crystallography	
EOSC 221: Introductory Petrology	Classroom	Petrology Optical mineralogy Sedimentology or metamorphic petrology or igneous petrology Must be able to work on a petrographic polarizing microscope	
EOSC 222: Geological Time and Stratigraphy	Classroom	Paleontology Sedimentary geology	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 223: Field Techniques	Classroom	Field geology geologic mapping also petrology, mineralogy, basic structural geology, geomorphology valid drivers license (for at least some of the TAs during term 2). Basic algebra and trigonometry TAs must have field mapping experience as well as be organized, mature, work safely in the field, able to take responsibility in a field (and lab) setting.	
EOSC 240: Site Investigation			
EOSC 250: Fields and Fluxes	Classroom	Calculus, physics	
EOSC 270: Marine Ecosystems	Classroom	Fundamentals of Marine Biology Marine Ecology or Biological oceanography	Excel only and Canvas
EOSC 310: The Earth and the Solar System Winter DE	Distance Education	Planetary Science, climate science, evolution of Earth and solar system, evolution of life on Earth	Canvas, Excel, Remark
EOSC 312: The Earth System and Environmental Evolution	Classroom	Sustainability, self-organizing complexity, community service learning	
EOSC 314: The Ocean Environment	Classroom	Introductory level physical oceanography, Introductory level chemical oceanography, Basics of atmospheric circulation. Probably any student in oceanography or atmospheric science could handle the material as it is designed for non-science students. At least one of the TAs needs a very good command of English in order to assess the quality of student term papers.	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 314: The Ocean Environment DE	Distance Education	General oceanography knowledge is required; Upper level undergrad oceanography students could TA this course	Canvas, Remark
EOSC 315: The Ocean Ecosystem	Classroom	Basic oceanographic knowledge.	
EOSC 320: Sedimentology	Classroom	Must know sedimentology and stratigraphy	
EOSC 321: Igneous Petrology	Classroom	Igneous petrology A TA should be able to work on a petrographic polarizing microscope and should be good at optical mineralogy.	
EOSC 322: Metamorphic Petrology	Classroom	Optical mineralogy Optical petrography Hand sample mineral identification Metamorphic geology	excel only
EOSC 323: Structural Geology I	Classroom	Structural Geology, stereonets, faults, folds, cross sections, 3 point problems	
EOSC 326: Earth and Life Through Time	Classroom	Basic Geology Some paleontology background (eg a undergrad course) would be useful but not essential.	
EOSC 326: Earth and Life Through Time DE	Distance Education	Basic Geology Some paleontology background (eg a undergrad course) would be useful but not essential.	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 329: Groundwater Hydrology	Classroom	Geology, geological engineering, geophysics are all probably good. Should be familiar with groundwater hydrology and the techniques associated with that subject.	
EOSC 330: Principles of Geomorphology	Classroom	Geomorphology. Airphoto Interpretation (API). Geographic Information Systems (GIS).	API, GIS
EOSC 331: Introduction to Mineral Deposits	Classroom	need to have completed at least one lab-based undergraduate course in mineral deposits in addition to the standard core undergraduate geology courses (mineralogy, igneous and metamorphic petrology, structural geology, field school/experience).	
EOSC 332: Tectonic Evolution of North America	Classroom	Tectonics, regional geology, structural geology, igneous geochemistry	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 333: Elemental and Isotopic Geochemistry	Classroom	Petrology Geology Mineralogy Geochemistry and isotope systematics	Excel
EOSC 340: Global Climate Change	Classroom	Background and/or willing to learn (it's unlikely any TA will have deep background in all the material at the start): Earth's climate system in general, radiation balance, greenhouse effect, paleoclimate records, basic climate modeling Interest in climate science and current events in the news regarding climate change.	Excel skills would be good. Other computer models we currently use can be learned fairly easily.
EOSC 350: Environmental, Geotechnical, and Exploration Geophysics I	Classroom	gravity, magnetic, GPR, seismology, applied geophysics,	
EOSC 352: Geophysical Continuum Dynamics	Classroom	Vector calculus Differential equations	MATLAB
EOSC 353: Seismology			
EOSC 354: Analysis of Time Series and Inverse Theory for Earth Scientists	Classroom	Math, physics, ordinary differential equations, linear algebra Someone in atmospheric science, oceanography or hydrogeology, provided they had strong math/physics backgrounds	Should be proficient in Matlab, although it is certainly sufficient if they have experience with scientific computing languages (fortran, c, c)
EOSC 355: The Planets	Classroom	Some planetary science helpful but not necessary.	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 372: Introductory Oceanography: Circulation and Plankton	Classroom	It is best to have three TAs for this course, one that is in biological oceanography, another in chemical oceanography and another in physical oceanography.	
EOSC 373: Introductory Oceanography: Climate and Ecosystems	Classroom	It is best to have three TAs for this course, one that is in physical oceanography, another in biogeochemical oceanography and another in biological oceanography.	
EOSC 410: Geoscientific data analysis and empirical modeling (the course is co-taught with EOSC510)	Classroom	Statistics, data analysis, basics in linear algebra, programming (Matlab or Python)	Matlab or Python
EOSC 420: Volcanology	Classroom	Petrology, field geology, volcanology with a strong geological background	
EOSC 422: Structural Geology II	Classroom	Structural geology Metamorphic would help	
EOSC 424: Advanced Mineral Deposits			
EOSC 425: Paleontology	Classroom	Geology Paleontology	

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 429: Groundwater Contamination	Classroom	Groundwater hydrology, contaminant transport, MODFLOW	MODFLOW
EOSC 430: Aqueous Geochemistry	Classroom	Students should have taken the course or a equivalent course	PHREEQC
EOSC 431: Groundwater Contamination	Classroom	Groundwater hydrology, contaminant transport, MODFLOW	MODFLOW
EOSC 432: Fossil Fuels	Classroom	Fossil fules Petroleum Coal Preferably knows something about well logs	
EOSC 433: Geotechnical Engineering Practice	Classroom	Rock mechanics. Familiarity with geotechnical engineering design and numerical methods is of benefit.	
EOSC 434: Principles of Geological Engineering	Classroom	Soil mechanics Rock mechanics Engineering geology Geographic Information Systems (GIS)	GIS, Limit Equilibrium Slope Stability Analysis
EOSC 442: Climate measurement and anlaysis	Lab	Three speartate positions required: 1) Matlab: 2) Plantkon Identification; 3) Water sampling in the field - biologocal ocgy, physical ocgy. The general background is doing science - data collection, sample prep and analysis but we use the context of climate to do this.	1 - 2 of the TA's require matlab
EOSC 445: Engineering Design Project	Classroom	Geological engineering (undergraduate degree required)	Industry work experience in the engineering profession is critical (no particular IT skills required)
EOSC450: Potential Fields	Classroom	MATLAB and a background in physics or geophysics or applied math.	MATLAB

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 453: Physics of the Earth and Other Planets	Classroom	Some experience with giving PowerPoint talks. MATLAB and a background in physics or geophysics or applied math is a plus but not required.	MATLAB
EOSC 470: Biological Oceanography	Classroom	Biological oceanography, Microbial ecology, Phytoplankton physiology, Microbial loop, Zooplankton, primary productivity	
EOSC 471: Waves, Currents, and Ocean Mixing	Classroom and Lab	Physical oceanography, Matlab (python helpful?)	MATLAB
EOSC 472: Introduction to Marine Chemistry and Geochemistry	Classroom	Chemistry, oceanography, scientific writing and editing. A student who has taken this course would be a great benefit.	Students must be able to use basic math (algebra and logarithms) to calculate chemical equilibria manually.
EOSC 473: Methods in Oceanography	Classroom/Lab/Research vessel	Biological oceanography, perhaps chemical oceanography Field experience is required, as is some capacity for autonomy.	
EOSC 474: Marine Pollution	Classroom	Biology, oceanography, pollution	
EOSC 475: Marine Microbiology	Classroom	Microbiology; biological oceanography; basic descriptive oceanography	some familiarity with html can be useful
EOSC 477/ATSC 414: Geophysical Fluid Dynamics	Classroom	Basic TA skills plus wet laboratory experience. If possible, knowledge of GFD	none

Course Name	Delivery Method	Required Knowledge	IT Skills
EOSC 478: Introduction to Fisheries Science	Classroom	Basic fish biology, fisheries oceanography, fisheries science	
EOSC 516: Teaching and Learning in the Earth Sciences	Classroom	Geoscience Education interest. Facilitation of workshop-style sessions and feedback-based discussions. Completion of the Facilitator Development Workshop (FDW), which is financially supported by the department.	Basic - know how or learn to use Canvas

Course Name	Delivery Method	Required Knowledge	IT Skills

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General Duties	Specific Duties	Suggested TA Hours
Online discussion and marking.	Online office hours via Canvas Discussion boards, ReMark final-exam scanning and marking, grading of online assignments including Canvas ePortfolios, invigilation of final exam.	100 hrs a week for each term (half that in summer), covered by many TAs
Marking & online office hours	Supervise a team of undergrad markers. Maintain a grade sheet in Excel and Canvas. Mark exams and occasional make-up assignments (paper and Canvas). Answer online questions via Piazza, and hold office hours as needed. Create homework answer keys in Excel for the undergrad markers.	6 hrs a week
Lab work, marking	Mark weekly computing assignments submitted online. Write scripts to manage submissions from students. Participate in each lab, answering questions. Hold office hours as needed, and answer email queries. Help keep the computers running. Help set up projection equip in the computer lab.	3 hrs a week
Lab work, demo lectures, marking	Collect lab instruments each week. Assemble and verify that they all work. Modify lab exercises as needed. Lead the lab. Grade lab exercises. Scan and ReMark the midterms and final exam.	9 hrs/week
Online discussion and marking.	Use Canvas and Piazza to interact online with students, do online marking, and enter grades. (Other activities tbd.)	3 hrs/week
Marking	Mark homework Invigilate exams	1.5 hrs a week
Lab, lecturing	Assist students with matlab coding problems during drop in labs Mark some written assignments Write short matlab examples with documentation	1.5 hrs a week
Lab Work	Preparation of web-based material... throughout term... fairly flexible	1.5 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Some grading; monitoring and moderating online participation; some student contact to facilitate group work	The TA is primarily responsible for following and moderating the student's discussions of current energy topics on the course blog plus some grading. The assignments that the TA is required to grade are in-class quizzes (with provided answer key).	4 hrs/wk
Marking and some student contact	1) Grade assignments and exams; 2) Assist students with assignments during a few sessions; 3) Hold office hours to address student questions about grading; 4) Deliver a guest lecture if interested	5 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Student Contact and marking	A TA might do 1-2 lectures for if instructor out of town Marking is done around midterm and for final exam Test preparation is at midterm and for final exam Photocopying Attending lectures and assisting with in-class exercises Office hours (answering student questions; holding exam review sessions, going over exam results with students, etc) Supervising the field trip to Jericho beach.	12 hrs a week
Lab, marking	Lab preparation. Learn lab activities ahead of time. Gather/put away supplies. Attend training sessions. Conduct labs with up to 25 undergrad students. Mark labs. Enter marks for labs and quizzes.	27 hrs a week
Marking	Office hours to help students with the material and marking	12 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Marking and Student Contact	Intro TA meeting, 1 hr x # of TAs Final exam invigilation, 3 hr x # of TAs Head TA (supervises all other TAs), 40 h Organize Make-up exams, 13 h Invigilate Make-up exams, 5 h Compile exam Qs from instructors, 15 h Test-proofing meetings, 39 h Photocopy exams, 7 h Create Scantron answer keys, 4.5 h Midterm exam invigilation, 24 h Run Exams thru Scantron, 3 h Alphabetize Scantron sheets and fix smudged Scantrons, 20 h Edit Scantron files to calculate student marks, 7 h Monitor online Discussion Boards on Vista, 65 h Monitor PeerWise online questions, 30 h Help with a field trip, 27 h Hold office hours in ECAC, 225 h	30 hrs a week
Marking and Student Contact	Respond to posts from students on discussion board Lead discussions on board Mark short answer question on Quiz Create map of natural disasters from data submitted by students	6-12 hours/week is ideal; 3/week is OK
Marking and student contact	Attend occasional class activities; printing up activity worksheets and exams; grading activities for participation points; grading midterm and final exams (all mutiple choice) using REMARK software; becoming familiar with REMARK (if not already); 1 hour per week office hours in the ECAC room.	15 hrs a week
Marking and student contact	Answer student questions from on line bulletin board Attend 2 1 hour labs, operate scantron for mid term / final and collate grades, mark labs	TBA
Lecturing, marking	Final exam marking (multiple choice) Discussion Board postings and replies Continued development of glossary and question database	TBA

General Duties	Specific Duties	Suggested TA Hours
Labs, marking	Providing instructions for weekly labs, and answering student questions. Grading of weekly labs. Grading of rock & mineral quiz. Invigilate exams. Assist with grading of final exams.	30-36 hrs a week for 6 labs, 5-6/h a week per each TA responsible for 1 Lab section
Lab Work, marking	Proof-read labs and assignments (1 per week) weekly labs: three or four (depending on enrollment) 2-hour labs Attend weekly labs 2 office hours per week Mark assignments, mini quizzes midterm, final	18 hrs a week
Marking	Marking throughout term. quizzes, abstracts, projects	6 hrs a week
Lab, marking	Instruct labs. Mark quizzes. Work with students hands-on. Meet weekly with other TA's	25.5 hrs a week
Labs and Marking	Administer Labs Mark Labs Mark theoretical quizzes and exams	36 hours per week
Lab, marking	Prepare lab materials (hand outs, samples) Put materials away properly. Supervise labs Grade labs Help collate final grades Assist in grading mid-term and final	10.5 hours a week

General Duties	Specific Duties	Suggested TA Hours
Field work, lab, lecturing, marking	Teach labs - geologic map interpretation, brunton compass techniques, cross section construction, etc. Mark labs Co-teach field mapping trips mark field projects lecture TA Help with grading, creating lecture and lab exams. Photocopying. Lectures on oc	13.5 hrs a week
Marking	Mostly marking	3 hrs a week
Field work, marking	The TAs have to assist the students in doing a roughly half-day field work in the rocky intertidal to gather data for assignment 1. Since the class is big (usually >50), the TAs have to go on different days to be able to help more students. Marking tasks are for the two assignments in the course, and for the midterm and the final exams (4 marking tasks in all). TAs also have to invigilate both midterm and final exams, as well as help in the reproduction of exam materials, if needed.	6 hrs a week
Marking, discussion board	TAs run discussion boards (ask/answer student questions), mark assignments, final exam.	6 hours per week
Field work, lecturing, marking	Coordinate community service learning project, linking UBC students with a local elementary school.	6 hrs a week
Marking	Students mark the mid-term exam given an explicit answer key. They also mark students term papers (max 10 pages each). TAs are given guidelines for marking papers and the instructors mark about 5 - 10 papers simultaneously with the TAs to 'calibrate' their marking.The typical assignment is that one TA uses his/her full work hours marking the mid-term, while another TA uses his/her work hours marking papers at the end of term.	9 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Marking and student contact	Respond to posts made by students on Discussion Board Mark graded discussions Mark term-end paper	3-6 hours/week is ideal
Marking	Marking	TBA
Lab work and marking	marking	13.5 hrs a week
Lab, marking	Administering Labs, Marking Labs, marking home assignments	15-18 hrs a week for 3 Labs, 5-6 h/week per each TA responsible for 1 Lab section
Lab	TAs run the labs, including introducing the material and answering student questions. Mark lab assignments Mark lab exam Answer student questions and mark final lab project	13.5 hrs a week
Lab work, Marking	Marking midterm and final lab exams TA'ing the lab component to the course	15 hrs a week
Marking, student contact	Attend occasional class activities; printing up activity worksheets and exams; grading activities for participation points; grading midters (all mitiple choice) and final exams (mutiple choice and short answers) using REMARK software; becoming familiar with REMARK (if not already); 1 hour per week office hours in the ECAC room.	9 hrs a week
Online discussion and marking	Leading/monitoring/replying online discussions. Assiting with writing exam questions which are based on the learning goals for the course. Marking exams	TBA

General Duties	Specific Duties	Suggested TA Hours
Field, Lab, Lecturing, marking	Leading labs, both field and laboratory experimental labs, and problem solving tutorial labs Marking lab materials Answering student questions Grading quizzes Marking final exams (with instructor)	TBA
Labs and marking	Leading and marking labs (5), marking quizzes (2) and final exam	18 hrs a week (4.5 hrs/wk x 4 separate lab sections)
Labs and Marking	bringing rock trays from the prep room (211A) down to the lab room (101) ~15 minutes prior to the start of the first lab section each week, plus posting answer sheets from the previous lab and any geological maps that will be used each week. making photocopies of labs for students each week. introducing the lab theme each week, providing a brief summary of problem areas identified in previous labs, providing guidance and advice for students during each of the 3-hour weekly labs. ensuring that the lab and prep rooms are kept clean and orderly. transporting rock samples from room 101 back to room 211A after the completion of each lab and re-archiving the sample drawers. marking weekly labs and updating master marking sheet for course. monitoring and marking final lab exam. assistance with grading of midterm/quizzes/final exam.	10.5 hrs per week
Marking and online discussion interaction	Monitor the course VISTA site. Grade and evaluate online assessments, Assist in reviewing and interpreting results of weekly online quizzes, Contribute to online discussions for the course, mark midterm and final exams. Ideally the TA would have previously taken the course, or else should be very knowledgeable about North American geology and tectonics	6 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Lab work, marking	The TA has to give the labs, be present and available to the students for questions. The instructor visits each lab a couple of times. Help the student to resolve exercises, answer questions. Mark the labs after completion. Accompany the field trip (to ALS Global). Help in the marking of the exams.	10.5 hrs a week
Lecturing, marking	Scantron and short answer marking throughout the term. Hold office hours (i.e. interact successfully with students 1-on-1 and in small groups), Attend class, Learn the material him/herself, Comment on draft assignments and exams. In the future, hold excel help sessions.	15 hrs a week
Lab, marking	Lab work involves demonstrating geophysical equipment and having a strong background in the field acquisition processing and interpretation of the data TA should be able to present applied geophysics in an exciting way to students. Labs and Team Based Learning exercises are marked by TA's TA's are expected to interact with students outside of formal Lab hours.	7.5 hrs a week
Marking	Marking assignments throughout the term	3 hrs a week
Lab, Lecturing, Marking	TA's need to introduce and explain laboratory exercises to students and they need to be able to mark these same exercises.	3 hrs a week
Marking	Grading in-class team work (after each class) and quizzes. Grading 3 major assignments, 2 midterms, and 2 project deliverables. One office hour per week, plus additional office hour during heavy workload weeks (~ 4 weeks). Help with making questions for midterms. Presence at and grading of final project presentations.	8hrs a week

General Duties	Specific Duties	Suggested TA Hours
Marking, holding office hours, and answering student questions	They need to help us with the CANVAS site for the course, run office hours, answer e-mail Qs from the students regarding course content, photocopy exam/tests, mark 3 tests, as well as the final exam.	16 hrs a week
Marking		9 hrs per week
Marking	There are 4 assignments and 10 (weekly) quizes	6 hrs per week (EOSC410 has approx 15 enrolled students and EOSC510 has ca 25 enrolled students, so TA-ing is for approx 40 students)
Field, Lab, Marking	Organize & participate in weekend field trips Teach weekly 3 hour labs Organize weekly lab materials Marking of lab assignments and lab exam	7.5 hrs
Lab, marking	TA the lab Help students with map-based and thin section based labs. Mark the labs and final lab exam	3.5 hrs a week
Lab, marking	Delivering paleontology labs Marking labs Marking mid terms final exams Attending student seminars	7.5 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Lecturing, marking	Tutorials Assignment marking, Student assistance with running course software (MODFLOW)	4.5 hrs a week
Marking, lab	Grading assignments and running one or 2 of the labs. Assisting students with PHREEQC questions	4.5 hrs a week
Marking, lab	Tutorials Assignment marking, Student assistance with running course software (MODFLOW)	4.5 hrs a week
Marking	marking	4.5 hrs a week
Lab, Marking	Providing instruction for weekly labs. Grading of weekly labs.	6 hrs a week
Labs and marking	Leading and marking labs (3), marking oral presentations (2), marking quizzes (20 and final exam	9 hrs a week (4.5 hrs/wk x 2 separate lab sections)
Instruction of lab - demonstration of sampling and lab protocols, marking	One TA will take students to jericho beach to do water sampling. One TA will run the microscope lab doing plankton Identification and counts. One TA will run the computer lab - Matlab. Each TA really is in charge of their section and activities. The Lab instructor only coordinates between the TA's	5 - 6 hours for each TA
Marking, coaching students	Guiding student teams tasked with diverse engineering design projects drawn from local industry, grading assignments, answering questions, attending team progress meetings, commenting on draft reports, assessing oral and written communication skills Six hours per week on average, but much more heavily weighted toward Term 2	
Marking	Mark weekly assignments	3 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Marking	The TA evaluates two student talks per week that are submitted as PDFs or PowerPoint files. The TA's job is to provide feedback to the students who gave the talk on the substance and presentation of whatever it is they are talking about.	3 hrs a week
Marking	The TA marks about 4-5 assignments over the course of the term and helps mark the mid-term using a detailed answer key. He/she also helps with some photocopying of exams etc. In some years, the TA has been asked to give one lecture on the topic of his / her expertise, but this is a very minor component of the work load.	3 hrs a week
Assisting in labs	The TA proofreads and pre-tests labs, and assists students in the labs	3 hrs a week
Lecturing, marking	Marking weekly assignments throughout the term, including a written report at the end and earlier drafts of the report. In addition, helping with in-class group work projects, proof-reading drafts of assignments, worksheets and exams.	4 hrs a week
Field work and Lab work	Generally there are 2 parts to the TA load. First, they take part in the 1 week field portion at Bamfield (including the packing and prep for that trip). Second, they are required at UBC to a) help students prepare for the their projects, b) help students find the resources to analyze their data, c) assist in analyzing their data, d) assist in marking their oral presentations and final reports	3 hrs a week plus 1 week field school during winter reading break
Marking	Main task of the TAs is to mark commentaries (2), team-based learning (TBL) activities (7-8), and the midterm exam (1). Opportunities exist for TA's to help with lectures and/or preparing TBL activities. Usually, marking takes up most of the TA time assigned to this course (150 students).	12 hrs a week
Marking	Marking; evaluate oral presentations; some Web Vista familiarity;	4.5 hrs a week
Set up Class Demonstrations, Help with Connect	Set up and clean up small fluid dynamics experiments for class. Scan marked group tests, upload materials to Connect, keep track of marks for assignments, photocopy	1.5 hrs a week

General Duties	Specific Duties	Suggested TA Hours
Marking, student contact	TA is used to mark end of the term assignment. In addition, his/her duties include invigilation of exams and participation in the student class critical paper reviews (several throughout the semester) and providing a feedback to lecturer (second person opinion) on the student performance.	3.5 hrs a week
Lecturing and marking/providing feedback	Facilitation of small groups sessions is very important (and very specialized). Adapt or design from scratch short sessions on teaching and learning topics.	9 hrs per week

General Duties	Specific Duties	Suggested TA Hours

General Duties	Specific Duties	Suggested TA Hours

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General Duties	Specific Duties	Suggested TA Hours

General Duties	Specific Duties	Suggested TA Hours

Term Fall = September-December Winter = January-April
Each term (including a compressed summer term)
Fall
Offered every few years.
Winter, every 2 or 3 yrs.
(This new course will probably first be offered in mid 2021.)
Winter
Winter
Fall

Term Fall = September-December Winter = January-April
Winter
Winter

Term Fall = September-December Winter = January-April
Fall & Winter
Fall & Winter
Fall & Winter

Term Fall = September-December Winter = January-April
Fall & Winter
Fall, Winter, Summer 1/2
Winter
Fall & Winter
Fall & Winter

Term Fall = September-December Winter = January-April
Fall
Fall
Fall
Fall
Winter
Winter

Term Fall = September-December Winter = January-April
Winter
Winter
Winter
Fall, winter, summer
Fall
Fall

Term Fall = September-December Winter = January-April
Fall/Winter/Summer 1/2 alternating
Fall & Winter
Winter
Fall
Winter
Fall
Fall & Winter
Winter

Term Fall = September-December Winter = January-April
Fall
Fall
Fall
Winter

Term Fall = September-December Winter = January-April
Winter
Fall & Winter
Fall
Fall
Fall
Fall

Term Fall = September-December Winter = January-April
Fall
Winter
Fall
Fall
Winter
Fall

Term Fall = September-December Winter = January-April
Fall
Fall
Winter
Winter
Winter
Winter
Fall and Winter
Fall and Winter
Fall

Term Fall = September-December Winter = January-April
Fall
Fall
Fall
Winter
Winter
Fall
Winter
Winter every second year

Term Fall = September-December Winter = January-April
Fall
Fall

Term

Fall = September-December Winter = January-April

Term

Fall = September-December Winter = January-April

Term

Fall = September-December Winter = January-April

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