

DEPARTMENT OF FOREST & CONSERVATION SCIENCES

Job Posting: Teaching Assistants / Markers

Period: Term 1 (September 1, 2019 – December 31, 2019)

Course No. FRST 200

Instructor: Robert Guy

Course Name: Forest Plant Biology I

Total No. Required: GTA 3 UTA

Required Qualifications: Must be skilled in tree and plant identification, particularly angiosperm families; working knowledge of plant morphology and physiology.

Description of General Nature of Duties: Lab set-up, take-down; photocopying handouts; assisting students in lab (especially with tree and plant identification); marking lab reports and herbarium assignments; supervising open lab times for studying prior to exams; collecting specimens from the field.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Basically 6 hours of contact time per week plus 6 hours of prep/marking per 1.0 GTA

Course No. FRST 201

Instructor: Suzanne Simard

Course Name: Forest Ecology

Total No. Required: GTA 3 UTA

Required Qualifications: Must be a graduate student in Faculty of Forestry. Must have an excellent understanding of local plant taxonomy, forest dynamics and structure, the biogeoclimatic ecosystem classification system, and basic soils. Must be familiar with BC coastal and interior ecosystems.

Description of General Nature of Duties: Provide assistance with all field labs, including some full-day labs and two weekend field trips. Provide assistance with all tutorials and indoor labs. Assist students with plant identification on evenings and weekends before lab exams. Provide some assistance with supervising and marking exams.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No. FRST 303

Instructor: Christopher Chanway

Course Name: Principles of Forest Science

Total No. Required: GTA 1 UTA

Required Qualifications: Forest Science Major

Description of General Nature of Duties: Assist in marking and lecturing.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 6 (for 16 weeks)

Course No. FRST 307

Instructor: Allan Carroll / Richard Hamelin

Course Name: Biotic Disturbances

Total No. Required: GTA 2 UTA

Required Qualifications: Should be a graduate student in the Faculty of Forestry. Must have solid knowledge of forest biotic stresses, either in entomology or pathology. Must be familiar with disease and insect taxonomy, diagnostic, and forest pest dynamics.

Description of General Nature of Duties: Assistance with field labs and with indoor labs. Provide assistance with tutorials, preparation of material, and with student lab assignments. Provide some assistance with marking of assignments and exams.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No. FRST 320

Instructor: Lori Daniels

Course Name: Biotic Disturbances Fire & Climate

Total No. Required: GTA 1 UTA

Required Qualifications:

- Completion of climate, ecology and natural disturbance courses with high grade.
- Field experience in ecological assessment and/or fire ecology and management.
- Interest in teaching.
- Capable of working well with undergraduates.
- Good communication skills.
- Reliable and self-motivated.

Description of General Nature of Duties:

- Lab preparation and teaching (2 sections of c. 30 students each).
- Photocopying of lab materials and maintain lab reference binders.
- Assistance with lab assignments during lab sections and office hours.
- Co-supervision of student field exercises.
- Grading lab reports and exams.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No. FRST 350

Instructor: Patrick Culbert

Course Name: Foundational Field School

Total No. Required: GTA 3 UTA

Required Qualifications:

- Completion of undergraduate level ecology/measurements courses with high grade.
- Field experience in forestry/ecology.
- Interest in field instruction.
- Capable of working well with undergraduates with diverse cultural backgrounds.
- Good communication skills.
- Reliable.
- Fluency in Mandarin helpful but not required.

Description of General Nature of Duties:

- Organization of transport and teaching materials prior to camp.
- Assistance teaching field exercises.
- Perform small-group instruction and supervision of students.
- Grading field notebooks and team reports on completion of camp.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 48 (for 2 weeks)

Course No. FRST 351

Instructor: Lori Daniels

Course Name: Interior Field School (Fall Camp)

Total No. Required: GTA 1 UTA

Required Qualifications:

- Completion of undergraduate level silviculture/ecology/measurements courses with high grade.
- Field experience in forestry/ecology.
- Interest in teaching.
- Capable of working well with undergraduates.
- Good communication skills.
- Reliable.
- Class 4 (professional) driver's license to drive 15 passenger vans is required.
- Willingness to stay in a remote camp for 1 week in late August.

Description of General Nature of Duties:

- Organization of transport and teaching materials prior to camp.
- Photocopying as needed.
- Assistance with field and classroom exercises while at camp.
- Supervision of field notebook completion and skills tests while at camp.
- Grading lab reports and notebooks on completion of camp.

Note: This is a 1 week compressed, residential field-course with preparation time in advance and marking and wrap-up activities after camp.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 72 (for 3 weeks)

Course No. **FRST 544**

Instructor: **Susan B. Watts**

Course Name: **Technical Communication
Skills I**

Total No. Required: GTA 1 UTA _____

Required Qualifications: Good English writing and communication skills in order to grade essay assignments. Previous experience in this course preferred – preference will be given to a student who has taken and done well in the course, and has experience in TAing the course, if such a student is available.

Description of General Nature of Duties: Grading of student papers and providing detailed feedback to students on their communication skills and how to assess the skills of others.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 9 (for 16 weeks)

Course No. **FRST 547**

Instructor: **Susan B. Watts**

Course Name: **Forestry in British Columbia;
FRST 449C Section 103**

Total No. Required: GTA 1 UTA _____

Required Qualifications: Knowledge of BC forestry and forests. Good organizational skills. Good English skills in order to grade essays and assignments. Previous experience in this course preferred – preference will be given to a student who has taken and done well in the course, and has experience in TAing the course, if such a student is available.

Description of General Nature of Duties: Preparation of course handouts, maintaining students' email lists, organizing transportation for field trips, organizing accommodation and meals for field trips, grading and giving written feedback to students on their assignments, maintaining record of grades, accompanying field trips. Providing general support as requested by the instructor.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No. CONS 101

Instructor: Jeanine Rhemtulla

Course Name: Introduction to Conservation

Total No. Required: GTA 2 UTA

Required Qualifications: Strong background and interest in conservation (ecological and/or socio-economic aspects). Good field ecology and interpretation skills especially helpful. Empathy, sense of humour, and interest in interactive pedagogy in large-class settings are a bonus.

Description of General Nature of Duties: In September, GTAs will lead ~ 12 three-hour field trips (outside of class hours) in Pacific Spirit Park. GTAs will also help grade assignments and exams, maintain Canvas website, and help to organize and run in-class debates and other activities. If desired, GTAs may deliver a guest lecture on their research or other topic in conservation. Attendance at weekly teaching-team meetings is required..

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No.: CONS 302

Instructor: Tongli Wang

Course Name: Issues in Genomics and the Environment

Total No. Required: GTA 1

- Knowledge of genetics, genomics and environments.
- Excellent writing and communication skills

Description of General Nature of Duties:

Assist students with readings, lecture material, and group projects. Assist grading assignments, term papers and exams.

Hours Allotted to Each Component of Job Duties Hours of Work Per Week 12 (for 16 weeks)

Course No.: CONS 440

Instructor: Tara Martin

Course Name: Conservation Decision Making & Policy

Total No. Required: GTA 1

Background in conservation decision science, systematic conservation planning, quantitative tools in conservation science, structured decision making, and general understanding of national and international conservation policy context.

Description of General Nature of Duties:

GTA will mentor students on individual and group projects, help organize and run labs, contribute to marking of assignments and quizzes and may deliver 1-2 lectures on topics they have a special interest in. GTA reads course material, attends lectures and labs and helps develop study questions to prepare for labs and exams.

Hours Allotted to Each Component of Job Duties Hours of Work Per Week 12 (for 16 weeks)

Course No. **CONS 451**

Instructor: **Suzie Lavallee**

Course Name: **Integrated Field School**

Total No. Required: GTA 3 UTA

Required Qualifications: CONS 451 is a 15-credit undergraduate course in the Natural Resources Conservation Program. The course consists of three modules, each approximately four weeks long. Modules will focus on alpine, grassland, and aquatic ecosystems in British Columbia. Each module will require 2 to 4 half-time GTA's. TAs will be hired based on their academic qualifications and **field experience** related to one of the ecosystems.

Specific qualifications for each module are as follows:

Alpine Module: alpine/subalpine plant species identification, or knowledge of land use planning and GIS.

Grassland Module: specialization in one of the following areas of grasslands research: avian ecology, plant identification, or fire ecology

Aquatic Module: fish identification skills, mark-recapture techniques and statistical analysis skills, amphibian identification and inventory skills, experience with fish habitat assessment.

Description of General Nature of Duties: Each module TA will be required to participate in a week-long fieldtrip. During fieldtrips TAs will lead field activities, assist with field exams, and supervise students at field camps. On campus, TAs will assist in identification and statistics workshops, grade assignments and provide feedback to students on deliverables.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 24 (for 4 weeks)

The number of hours allotted for a half-time TA appointment will be compressed into a one-month period (equivalent to the length of one module). Exact dates for each module and TA duties will be determined in August, but follow this general timeline: alpine module (September – field trip in second week), grasslands module (October – field trip either before or immediately after Thanksgiving), and aquatic module (November – field trip in late October / early November).

Course No. **MGEM500/FRST504**

Instructor: **Sarah Gergel**

Course Name: **Landscape Ecology & Management**

Total No. Required: GTA 1 UTA

Required Qualifications: Knowledge of GIS and remote sensing, as well as comfort using R software are essential.

Description of General Nature of Duties: This is an intensive short course taught in August with class activities nearly every day of the week. Duties include trouble-shooting geospatial landscape ecology exercises during computer lab sessions and assisting students outside of class time with projects, data and software. 1-2 guest lectures on topics of expertise are likely, as well as help organizing 1 or 2 field trips.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 48 (for 4 weeks)

30% in-class computer lab work

30% preparation, organization, updating and trouble-shooting data, files and software

20% admin duties, attendance, marking assignments

20% field trips and guest lecture preparation

*** End of Term 1 Posting ***

DEPARTMENT OF FOREST & CONSERVATION SCIENCES

Job Posting: Teaching Assistants / Markers Period: Term 2 (January 1, 2020 – April 30, 2020)

Course No. **FRST 210**

Instructor: **Sally Aitken**

Course Name: **Forest Plant Biology II**

Total No. Required: GTA 3 UTA

Required Qualifications: Should be skilled in tree and plant identification, particularly gymnosperms and other non-flowering plants; basic plant morphology.

Description of General Nature of Duties: Lab set-up, take-down; photocopying handouts; assisting students in lab (especially with tree and plant identification); marking lab reports and herbarium assignments; supervising open lab times for studying prior to exams; collecting specimens from the field.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Basically 6 hours of contact time per week plus 6 hours of prep/marketing per 1.0 GTA

Course No. **FRST 211**

Instructor: **Patrick Culbert**

Course Name: **Forest Classification and Silvics**

Total No. Required: GTA 3 UTA

Required Qualifications: . Must be a graduate student in Faculty of Forestry who has an excellent understanding of local plant taxonomy, the biogeoclimatic ecosystem classification system, silvics, soils and/or climatology. Must be familiar with BC ecosystems and tree species and interested in the impacts of global environmental change on forests.

Description of General Nature of Duties:

- Lab preparation and teaching (4 x 2-hour sections of c. 30-35 students each).
- Co-supervision of student field and lab exercise including: presentation of background materials, demonstration of field and lab analytical methods, advice on written lab assignments and evaluation of student powerpoint presentations.
- Co-supervision of a one-day field trip (in lieu of the last lab).
- Co-supervision of exams; grading lab reports and exams, including entering grades in spreadsheets.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No. FRST 302	Instructor: Yousry El-Kassaby
Course Name: Forest Genetics	Total No. Required: GTA <u> 2 </u> UTA <u> </u>
Required Qualifications: Graduate studies in forest genetics.	
Description of General Nature of Duties: Marking homework, 6 mid-terms and addressing questions for close to 150 students.	
Hours Allotted to Each Component of Job Duties:	Hours of Work Per Week: <u> 12 </u> (for 16 weeks)

Course No. FRST 386	Instructor: John Richardson / Scott Hinch
Course Name: Aquatic Ecosystems & Fish in Forested Watersheds	Total No. Required: GTA <u> 3 </u> UTA <u> </u>
Required Qualifications: Background in aquatic ecology preferably with experience in fish ecology, life history, taxonomy.	
Description of General Nature of Duties: Leading laboratory discussions on fish life history and general ecology; teaching fish taxonomy and identification, leading field tours; marking exams.	
Hours Allotted to Each Component of Job Duties:	Hours of Work Per Week: <u> 12 </u> (for 16 weeks)

Course No. FRST 399	Instructor: Patrick Culbert
Course Name: Research Methods	Total No. Required: GTA <u> 1 </u> UTA <u> </u>
Required Qualifications: Some knowledge of scientific research and forest ecology. Ability to converse effectively with undergraduate students.	
Description of General Nature of Duties: Assist with technical details of weekly class presentation and discussions. Some grading of reports and papers. Some tutorials with undergraduates.	
Hours Allotted to Each Component of Job Duties:	Hours of Work Per Week: <u> 6 </u> (for 16 weeks)

Course No.: FRST/APBI 444	Instructor: Cindy Prescott
Course Name Agroforestry	Total No. Required: GTA <u> 1 </u>
Required Qualifications:	
<ul style="list-style-type: none"> ▪ Knowledge of agroforestry systems ▪ Excellent communication skills ▪ Strong organizational skills and ability to work independently 	
Description of General Nature of Duties:	
Assist students with readings, lecture material and group projects. Help coordinate field trips and exercises. Assist grading assignments and exams.	
Hours Allotted to Each Component of Job Duties:	Hours of Work Per Week: <u> 6 </u> (for 16 weeks)

Course No. FRST 495

Instructor: Terry Sunderland

Course Name: Biological Diversity & Forest Management

Total No. Required: GTA 1 UTA

Required Qualifications: Background in quantitative Conservation Biology, population models, statistical analysis of multivariate data (logistic and linear regression for habitat mapping), and basic GIS skills. Strong research design and communication skills are important.

Description of General Nature of Duties: GTA mentors students in individual projects and labs, and contributed substantially to marking of assignments and quizzes, and may deliver 1-2 lectures on topics they have special expertise in. GTA reads course material, attends lecture and lab and develops study questions weekly to prepare students for lab assignments and exams.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 6 (for 16 weeks)

Course No. FRST 544

Instructor: Susan B. Watts

Course Name: Technical Communication Skills I

Total No. Required: GTA 1 UTA

Required Qualifications: Good English writing and communication skills in order to grade essay assignments. Previous experience in this course preferred – preference will be given to a student who has taken and done well in the course, and has experience in TAing the course, if such a student is available.

Description of General Nature of Duties: Grading of student papers and providing detailed feedback to students on their communication skills and how to assess the skills of others.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 9 (for 16 weeks)

Course No. FRST 545

Instructor: Susan B. Watts

Course Name: Technical Communication Skills II

Scientific Writing

Total No. Required: GTA 1 UTA

Required Qualifications: Previous experience in scientific writing is essential – preference will be given to a student who has taken and done well in the course, or has equivalent experience/qualifications. Must be able to communicate well with peers by way of written and oral feedback on student assignments.

Description of General Nature of Duties: Grading class assignments and providing a high level of written feedback on course assignments. Availability to tutor students as required and within the time available. Maintaining record of grades. Providing general support as requested by the instructor.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 9 (for 16 weeks)

Course No. CONS 330

Instructor: Suzie Lavallee

Course Name: Conservation Science & Sustainability **Total No. Required:** GTA 2 UTA

Required Qualifications: Strong understanding of conservation ecology and experimental design, with skills in Excel data sheet management and basic statistical analysis. Prior teaching experience with student-led experiments an asset.

Description of General Nature of Duties: Teaching and leadership for one of four tutorial sections per week, including workshops on scientific writing, computer and numeracy skills, and experimental design. Marking of student assignments and final scientific project papers, as well as midterm and final exams. GTA position will be split into 0.5 increments, with one 0.5 GTA per tutorial.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

1 hour per week: instructor's meeting

2 hours per week: tutorial contact time

2 – 3 hours per week: marking and grades administration

Course No. CONS 452 (12 credits)

Instructor: Jeanine Rhemtulla, Sarah Gergel, Hisham Zerriffi

Course Name: Capstone Course in Global Perspectives **Total No. Required:** GTA 2 UTA

Required Qualifications: Strong background in sustainable resource management, landscape conservation, energy systems, livelihoods, and/or socio-ecological systems. Strong skills in GIS (experience with both ArcGIS and QGIS preferred, as is proficiency with remote sensing) and/or statistics (R preferred), and solid communications skills, are required.

Description of General Nature of Duties: This is an intensive course (12 hours per week); students complete weekly assignments in the first part of the semester, then work in teams to complete independent projects in case studies around the world. GTAs will assist with: 1) developing, testing, and instructing weekly lab assignments; 2) tutoring weekly writing exercises; 3) grading of assignments; 4) maintaining the course Canvas website; and 5) mentoring team projects. Regular lab attendance will be required, as will attendance at weekly teaching-team meetings. Preference will be given to GTAs interested in working part-time in summer/fall 2020, when we will be overhauling course materials. Please contact instructor directly for more information (jeanine.rhemtulla@ubc.ca).

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 12 (for 16 weeks)

Course No. CONS 486

Instructor: Scott Hinch

Course Name: Fish Conservation and Management **Total No. Required:** GTA 1 UTA _____

Required Qualifications: Background in aquatic ecology preferably with experience in fish ecology or management.

Description of General Nature of Duties: Leading laboratory discussions and overseeing/grading student led seminars; marking exams and term papers.

Hours Allotted to Each Component of Job Duties: **Hours of Work Per Week:** 6 (for 16 weeks)

Course No.: UFOR 403

Instructor: Cindy Prescott

Course Name Ecological Restoration

Total No. Required: GTA 1

- Knowledge of ecological restoration
- Excellent communication skills
- Strong organizational skills and ability to work independently

Description of General Nature of Duties:

Assist students with readings, lecture material, group projects, and final project. Help coordinate field trips and exercises. Assist grading assignments and exams.

Hours Allotted: 6 hours per week for 16 weeks

Course No.: UFOR 495

Instructor: John Richardson

Course Name Biodiversity in Urban Areas

Total No. Required: GTA 1

- Knowledge of conservation planning, scientific design, statistics, and biodiversity.
- Excellent writing and communication skills
- Strong organizational skills and the ability to work independently

Description of General Nature of Duties:

Assist students with readings, lecture material, group projects, and final project. Help coordinate **tutorials** and exercises. Assist grading assignments and exams.

Hours Allotted: 6 hours per week for 16 weeks

*** End of Term 2 Posting ***