

DEPARTMENT OF FOREST & CONSERVATION SCIENCES

Job Posting: Teaching Assistants / Markers

Period: Term 1 (September 1, 2024 – December 31, 2024)

Course No. FRST 150

Instructor: Lindsay Cuff/ Duff Roberts/ Carellin Brooks

Course Name: Scholarly Writing and Argumentation in Forestry

Total No. Required: GTA 4 UTA

Required Qualifications: Excellent skills in critical reading and scholarly writing in English. Ability to provide formative and high impact feedback on student writing, strong communication and leadership skills, a passion for language and a knowledge of issues and concepts related to Forestry.

Description of General Nature of Duties: Participation in some lectures/course meetings, assessment of 4-6 written assignments, ongoing feedback on student writing, communications such as email and/or individual meetings with students.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 5 (for 16 weeks)

Course No. FRST 200

Instructor: Athena McKown

Course Name: Forest Plant Biology I

Total No. Required: GTA 1 UTA 1

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 TA

Course No. FRST 201

Instructor: Danielle Ignace

Course Name: Forest Ecology

Total No. Required: GTA 3 UTA 1

Required Qualifications: Must have field experience and be capable of working well with undergraduates. Must be familiar with local plant identification, forest dynamics and structure, soils, and the biogeoclimatic ecosystem classification system. Must be either an undergraduate who has taken FRST 201 (with high grade) or a graduate student in the Faculty of Forestry.

Description of General Nature of Duties: Provide assistance with all field labs, including some full-day labs. Provide assistance with tutorials and indoor labs. Assist students with plant identification. Provide assistance with marking of assignments and exams. Opportunities available for (1) undergraduates who have taken FRST 201 (with high grade) to assist with marking exams only, (2) graduate students who would like to assist with all labs and mark exams, and (3) graduate students who would like to assist with all labs only.

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

Course No. FRST 303

Instructor: TBA

Course Name: Principles of Forest Science

Total No. Required: GTA 3 UTA 1

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: 12 (for 16 weeks)

Course No. FRST 307

Instructor: Richard Hamelin/ Allan Carroll

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: Abiotic Disturbances Fire & Climate **Total No. Required:** GTA 2 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. 50 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 2 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: 64 (for 3 weeks)

Course No. FRST 544

Instructor: TBA

Course Name: Technical Communication Skills I

Total No. Required: GTA 2 UTA

Required Qualifications: Confident and skilled oral communicator. Ability to provide impactful and strategic formative feedback on oral presentations and assignments, strong communication and leadership skills, passionate about communicating issues and concepts related to Forestry to multiple and diverse audiences.

Description of General Nature of Duties: Attend and participate in course meetings, provide feedback on each assignment, meet individually with members of course community to provide feedback and help guide their projects and assignments.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 4.5 (for 16 weeks)

***Course No. CONS 302**

Instructor: Tongli Wang

Course Name: Issues in Geonomics and the Environment

Total No. Required: GTA 1 UTA

- Knowledge of genetics, geonomics 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 2 UTA

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: 9 (for 16 weeks)

Course No. CONS 449C

Course Name: Directed Studies in Natural Resources Conservation

Instructor: Nolan Bett

Total No. Required: GTA 2 UTA

Required Qualifications: Experience in conducting fish research in the lower Fraser River and Estuary, experience with sampling approaches, fish ID expertise, experience in writing reports and analyzing field data, class 5 drivers license.

Description of General Nature of Duties: The TA will lead field trips to lower Fraser River sites where they will demonstrate sampling approaches and fish ID; the TA will assist with the logistics and planning of the field trips and accompany students to field sites; the TA will help students with their field projects, and be responsible for marking assignments and projects.

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

Course No. CONS 451

Instructor: Nolan Bett

Course Name: Integrated Field School

Total No. Required: GTA 4.75 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 part-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; a valid class 5 drivers license is also required

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 GTA will be required to participate in a week-long fieldtrip. During fieldtrips, GTAs will lead field activities, drive to field sites, assist with field exams, and supervise students at field camps. On campus, GTAs 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)

Working hours will be compressed into a one-month period (the length of one module). Total appointed hours will range from 48-192, depending on the module and amount of duties required. 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 of academic year), grasslands module (October – field trip first week of October), and aquatic module (November – field trip last week of October).

Course No. NRES 100

Course Name: Pursuing Innovative Solutions to Big Questions

Instructor: Jeanine Rhemtulla/ Danielle Ignace/ Rob Kozak

Total No. Required: GTA 3

Required Qualifications:

This is a new course required for all undergraduate students in the new BSc Natural Resources program, designed to introduce challenges and opportunities in sustainable resource management. We want to build a diverse, collaborative team who are:

- Graduate students in the Faculty of Forestry
- Passionate about engaging with big questions integrating multiple perspectives (from wood science to forest management, conservation, and beyond)
- Reliable, self-motivated, team player

Description of General Nature of Duties:

- Grading assignments and exams
- Assist with field trip to Malcolm Knapp the weekend of Sept 21-22, 2024.
- Additional duties TBD once course design is complete (contact Jeanine to discuss)
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Hours Allotted: 12 hours per week for 16 weeks

Course No. NRES 103

Course Name Pathways in Natural Resources

Instructor: Patrick Culbert

Total No. Required: GTA 1

Required Qualifications: Excellent written communication skills. Ability to provide timely and helpful written feedback to students. Familiar with Canvas Learning Management System. Knowledge of the Faculty of Forestry's undergraduate programs will be helpful.

Description of General Nature of Duties:

Participation in lectures, assessment/grading of brief weekly assignments of ~250 students.

Hours Allotted: 12 hours per week for 16 weeks

Course No.: UFOR 495

Course Name Biodiversity in Urban Areas

Instructor: Sarah Benson-Amram

Total No. Required: GTA 2

- Knowledge of ecology
- 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: 12 hours per week for 16 weeks

*** End of Term 1 Posting ***

DEPARTMENT OF FOREST & CONSERVATION SCIENCES

Job Posting: Teaching Assistants / Markers
Period: Term 2 (January 1, 2025 – April 30, 2025)

Course No. FRST 150

Instructor: Lindsay Cuff/ Duff Roberts/ Carellin Brooks

Course Name: Scholarly Writing and Argumentation in Forestry

Total No. Required: GTA 3 UTA

Required Qualifications: Excellent skills in critical reading and scholarly writing in English. Ability to provide formative and high impact feedback on student writing, strong communication and leadership skills, a passion for language and a knowledge of issues and concepts related to Forestry.

Description of General Nature of Duties: : Participation in some lectures/course meetings, assessment of 4-6 written assignments, ongoing feedback on student writing, communications such as email and/or individual meetings with students.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 5 (for 16 weeks)

Course No. FRST 210

Instructor: TBA

Course Name: Forest Plant Biology II

Total No. Required: GTA 3 UTA 1

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: Prepare and provide introductory presentations for up to three lab sessions during the term; lab set-up, take-down; photocopying handouts; assisting students in lab (especially with tree and plant identification); marking lab reports and herbarium assignments; supervising openlab 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 TA

***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 (In Person)

Instructor: TBA

Course Name: Forest Genetics

Total No. Required: GTA 2 UTA

Required Qualifications: Graduate studies in population/quantitative genetics.

Description of General Nature of Duties: Grading homework, 4 mid-terms, and addressing questions via e-mail/discussion board/office hours for approximately 500 students.

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

Course No. FRST 302 (Online)

Instructor: TBA

Course Name: Forest Genetics

Total No. Required: GTA 1 UTA

Required Qualifications: Graduate studies in population/quantitative genetics.

Description of General Nature of Duties: Grading homework, 4 mid-terms, and addressing questions via e-mail/discussion board/office hours for approximately 500 students.

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

Course No. FRST 304

Instructor: Suzanne Simard

Course Name: Forest Stewardship for a Changing Climate

Total No. Required: GTA 2 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: 12 (for 16 weeks)

Course No. FRST 386

Instructor: Scott Hinch / John Richardson

Course Name: Aquatic Ecosystems & Fish in Forested Watersheds

Total No. Required: GTA 4 UTA

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: 12 (for 16 weeks)

Course No. FRST 399

Instructor: Athena McKown

Course Name: Research Methods

Total No. Required: GTA 1 UTA

Required Qualifications: Grade student scientific writing at multiple stages and provide high-quality constructive feedback. Meet individually or in small groups with students to advise them in development of their research proposals.

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: 12 (for 16 weeks)

Course No. FRST/APBI 444

Instructor: TBA

Course Name Agroforestry

Total No. Required: GTA 1

Required Qualifications:

- 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. This course will be offered in term 1 or term 2.

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

Course No. FRST 495

Instructor: Nolan Bett

Course Name: Biological Diversity & Forest Management **Total No. Required: GTA 2 UTA**

Required Qualifications: Background in biodiversity and conservation-related issues. Strong writing and communications skills, and ability to provide constructive feedback on assignments.

Description of General Nature of Duties: Mark student essays and presentations on biodiversity and conservation. Assist with guiding students during group discussions.

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

Course No. FRST 544

Instructor: TBA

Course Name: Technical Communication Skills I **Total No. Required: GTA 2 UTA**

Required Qualifications: Ability to provide impactful and strategic formative feedback on oral presentations and assignments, strong communication and leadership skills, passionate about communicating issues and concepts related to Forestry to multiple and diverse audiences.

Description of General Nature of Duties: Attend and participate in course meetings, provide feedback on each assignment, meet individually with members of course community to provide feedback and help guide their projects and assignments.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 4.5 (for 16 weeks)

Course No. FRST 545

Instructor: Lindsay Cuff

Course Name: Technical Communication Skills II

Total No. Required: GTA 1 UTA

Required Qualifications: Experienced and skilled in written scientific communication. Ability to provide impactful and thoughtful feedback on student writing, strong communication and leadership skills, passionate about writing and communication.

Description of General Nature of Duties: Attendance and participation in course meetings, formative feedback on written submissions, tutoring and guidance to members of course community.

Hours Allotted to Each Component of Job Duties: Hours of Work Per Week: 5 (for 16 weeks)

Course No. CONS 310

Instructor: Elizabeth Wolkovich

Course Name: Ecology in Changing Climate

Total No. Required: GTA 1 UTA

Required Qualifications: Evidence of excellent knowledge of climate change and ecology, including in-depth knowledge of materials in IPCC Working Groups I (physical science basis) and II. Must be well-versed in scientific literature and able to train students in reading and reviewing literature on climate change science, including attribution. Able to manage time well, be organized and efficient and communicate well with students. Experience with Git and GitHub preferred.

Description of General Nature of Duties: GTA will mentor students on group projects, help organize and run scientific paper discussions, contribute to marking of homework assignments, quizzes and class debates and projects. GTA reads/watches course all material, attends lectures, helps develop study questions to prepare for quizzes and test homework completion. Manages assignments, quizzes and grades on Canvas and serves as a first point-of-contact for students' questions.

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

Course No. CONS 330

Instructor: Athena McKown

Course Name: Conservation Science & Sustainability **Total No. Required:** GTA 1 UTA 2

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: Nolan Bett / TBA

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

Required Qualifications: Background in sustainable resource management, landscape conservation, biodiversity conservation, and/or socio-ecological systems. Proficiency in GIS (QGIS preferred), statistics (R preferred), or qualitative research methods required, as well as solid communications skills.

Description of General Nature of Duties: This is a 12-credit course (12 hours of class time per week) shared amongst a team of instructors and GTAs. Students complete weekly assignments and work in teams on independent research projects. GTAs will: 1) assist with developing and instructing weekly lab assignments, 2) grade assignments, 3) help guide in-class discussions, and 4) help mentor team projects. Attendance of some labs and/or certain classes is required, as is attendance of weekly teaching-team meetings (one hour per week). Working in a team allows for some flexibility with scheduling commitments. Please contact the instructors directly if you would like more information (nolan.bett@ubc.ca and 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 seminar 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:** 12 (for 16 weeks)

Course No.: UFOR 403/CONS 505

Instructor: Alex Moore

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

***** End of Term 2 Posting *****