Re: School of Environmental Studies Teaching Assistant (T.A) Opportunities:

Please submit your top two preferred classes to T.A in the Fall and Winter semesters (4 total) to Paul Bass (pdb@queensu.ca) no later than August 1, 2018. Please include your qualifications, relevant knowledge and skills. The following T.A opportunities in the School of Environmental Studies for the 2018-2019 academic year are:

**Fall 2018:**

- **Environment and Sustainability (ENSC 103):** *Professors:* Allison Goebel and Stephen Brown, *Weekly teaching pattern:* 2 x 1 hour lectures and 1 x 1 hour tutorial *Description:* An interdisciplinary approach to complex environmental issues and diverse perspectives on environmental management and sustainability. This course considers the social and scientific aspects of environmental problems and the production of environmental knowledge alongside global linkages, human health implications and barriers to sustainability. This course is capped at 250 students.

- **Introduction to Ecological Economics (ENSC 290):** *Professor:* Steven Moore, *Weekly teaching pattern:* 1 x 3 hour lecture, *Description:* This course includes a combination of lectures, assignments and case studies that are designed to introduce students to the ecological critique of the standard neo-classical economic analysis of environmental degradation and depletion. Students will also be asked to consider the more holistic approach to calculating the costs and benefits of economic activity proposed by ecological economists. This course is capped at 170 students.

- **Environmental Policy (ENSC 310):** *Professor:* John Andrew, *Weekly teaching pattern:* 1 x 2 hour lecture, 1 x 1 hour tutorial, *Description:* This course introduces political science and public policy within the context of environmental politics, policy, and administration. The purposes of policy, the makers of policy, and the tools at their disposal will be analyzed within the institutional context of environmental policy-making. This course is capped at 100 students.

- **Ecotoxicology (ENSC 425):** *Professor:* TBD *Weekly teaching pattern:* 1 x 3 hour lecture, *Description:* An exploration of the interactions among chemical exposure, toxicity to individual organisms, and effects on ecosystem structure and function. Mechanisms of toxicity will be linked to effects at different levels of organization up to the level of the ecosystem, using case studies to explore the complexities of exposure and response. This course is capped at 24 students.

- **Honours Projects in Environmental Studies (ENSC 430):** *Professors:* Ryan Danby, *Weekly teaching pattern:* 1 x 3 hour lecture, *Description:* Interdisciplinary study of the scientific, socio-political, and economic aspects of selected local, national, or global issues related
to environmental sustainability. Teamwork is emphasized. This is a full year (Fall and Winter term) commitment and is capped at 60 students.

⇒ **Special Topics in Environmental Studies – Watersheds (ENSC 480):** *Professor:* Geoff Hall, *Weekly teaching pattern:* 3 x 1 hour lectures, *Description:* This course investigates watersheds from the science and engineering aspects common to a diversity of watersheds found across Canada. This course is designed to deliver a wide ranging set of skills to students in the engineering and environmental fields in order to allow them to assess natural and anthropogenically stressed watersheds within the regulatory framework present in Canada today. Topics will include: watershed processes, geographic information systems, water quality and contaminants, geology and soils, plant and animal diversity, hydrology and hydrologic management of watersheds, regulatory frameworks and environmental assessment. Note – there are 2 Saturday field trips in this course. This course is capped at 20 students.

⇒ **Special Topics in Environmental Studies – Waste (ENSC 482):** *Professor:* Myra Hird, *Weekly teaching pattern:* 1 x 3 hour seminar, *Description:* This course will consider waste as a topic that requires interdisciplinary approaches to understand waste as both a techno-scientific and socio-ethical issue. Various types of waste will be considered (municipal solid, industrial, bio-hazardous, food and agriculture, nuclear, clothing, electronic, mining, military, and so on), as well as various waste management practices (landfilling, incineration, bioremediation, repositories, and so on). We will consider various ways of understanding waste (what waste is) as well as how waste is governed politically, economically, and socially. This course is capped at 18 students.

**Winter 2019:**

⇒ **Environmental History (ENSC 200):** *Professor:* Myra Hird, *Weekly teaching pattern:* 1 x 3 hour lecture, *Description:* A history of the relations between humans and nature through time, with special emphasis on how science has influenced how we perceive our place in nature, and how we define and understand environmental issues. This course is capped at 100 students.

⇒ **Environmental Toxicology and Chemical Risks (ENSC 201):** *Professor:* Louise Winn, *Weekly teaching pattern:* 2 x 1 hour lectures and 1 x 1 hour tutorial, *Description:* Introduction to global issues and problems in environmental toxicology. Possible topics include waste disposal, pesticides, chemical warfare, pulp and paper mills and genetically modified foods. This course is capped at 215 students.

⇒ **Environmental Assessment (ENSC 301):** *Professor:* TBD, *Weekly teaching pattern:* 1 x 3 hour lecture, *Description:* The course explores components of environmental
assessment including public consultation, scoping, alternatives, protocols, significance, trade-offs, mitigation and monitoring. Biophysical, cumulative, social, strategic and sustainability assessment through case studies highlight strengths and weaknesses of the environmental assessment process. This course is capped at 100 students.

- **Global Food Security, Agriculture and Environment (ENSC 315):** *Professor:* TBD  
  *Weekly teaching pattern:* 2 x 1.5 hour lectures,  
  *Description:* National and global review of current and projected adequacy of food supplies, as affected by soil and water resources, climate and climate change, and human population growth. Reviews different scenarios for meeting food needs over the next 50 years, including technological, social, economic, and political factors. This course is capped at 80 students.

- **Sustainability (ENSC 390):** *Professor:* Anna Harrison and Graham Whitelaw,  
  *Weekly teaching pattern:* 1 x 3 hour lecture,  
  *Description:* The concept of sustainability provides a focus for discussing global and regional environmental issues in the broadest possible perspective. This course will examine the meaning of sustainability and ways in which it is assessed at various levels including individual lifestyles, ecological, agricultural and industrial systems, urban areas, regions within countries, nations, and the world as a whole. Case studies will be used to illustrate the general principles. This course is capped at 100 students.

- **Global Water Issues (ENSC 407):** *Professor:* Heather Jamieson,  
  *Weekly teaching pattern:* 1 x 3 hour lecture,  
  *Description:* Increasing demands on water resources and widespread pollution of surface and groundwater has led many experts to predict a looming water crisis. This course will develop a global perspective on issues that include water distribution, management, pollution, conservation, conflict and policy. This course will be of interest to students in science, applied science or the humanities. This course is capped at 18 students.

- **Special Topics in Environmental Studies – Communication in Environmental Science (ENSC 480):** *Professors:* Diane Orihel and Stephen Brown,  
  *Weekly teaching pattern:* 2 x 1.5 hour lectures,  
  *Description:* Communication of scientific information to non-expert audiences is critical in the environmental sciences. In this interactive, workshop-based course, students will be introduced to a variety of science communication media, including policy briefs, infographics, videos, and interviews. This course is capped at 18 students.
Special Topics in Environmental Studies – Trade and the Environment (ENSC 483):

Professor: Kyla Tienhaara, Weekly teaching pattern: 2 x 1.5 hour lectures, Description: This course examines debates in law, economics and political science about the impacts of trade on the natural environment. The relationship between trade and the environment is complex. The movement of goods obviously creates a carbon footprint, but is consuming local products always more environmentally friendly than buying imports? Do countries lower their environmental standards to gain competitive advantage, creating a ‘race to the bottom’, or does a liberal trading regime allow for the spread of environmentally friendly goods and technologies? Do trade agreements like NAFTA protect the ‘right to regulate’ or create ‘regulatory chill’? We will examine all of these questions, with a particular focus on trade and investment disputes that have arisen over environment policy.

Note: Teaching Assistants are represented by the Public Service Alliance of Canada, Local 901. The terms and conditions of employment and bargaining rights are in the Collective Agreement and can be found at www.psac901.org.