UNIVERSITY
Ontario Universities Program in Field Biology

Course Title:	**Arctic Ecology**
Instructor(s):	Dr. Sarah Adamowicz, Associate Professor, Department of Integrative Biology, University of Guelph; Phone: 519-824-4120 ext. 53055; Email: sadamowi@uoguelph.ca
Dates:	Approximately July 7-21, 2018*
Location:	Churchill Northern Studies Centre (https://churchillscience.ca/), Churchill, Manitoba
Cost:	$1500 (includes meals and accommodation for 14 nights, airport pick-up and drop-off in Churchill, transport around Churchill region for course activities, research materials; does not include transportation to and from Churchill)
Prerequisites:	University Ecology Course (required) University Statistics Course (required) University Invertebrate Zoology or Entomology Course (recommended) University Course in Plant Ecology or Plant Systematics (helpful but not required) *Note: This course is intended for 3rd or 4th-year students specializing in biology, particularly ecology, biodiversity, environmental studies, evolution, or aquatic biology.*
Enrolment:	20 students (5 for OUPFB; 15 for University of Guelph)
Description:	Churchill is a diverse region for ecological study, being located at the junction of the boreal, tundra, and Hudson Bay biomes. The first week of the course includes exploration of terrestrial, freshwater, and near-shore marine Arctic environments, as well as an overview of both aquatic and terrestrial collecting methods used to survey invertebrate and plant biodiversity in these environments. Two group projects are performed. Evening lectures, tutorials, and student-led presentations during week 1 provide background on Arctic ecology as well as statistical techniques for studying biodiversity and ecology. Weather permitting, excursions will include viewing estuary organisms, including belugas. During week 2, students conduct independent research projects. A major individual research paper is due the last Friday of September. This course provides excellent opportunities to visit a spectacular sub-Arctic locality, to learn about Arctic ecology and biodiversity, and to conduct an independent research project with faculty guidance.
Evaluation:	Short presentations 2@5% each Group project 10% Participation 10% Field notebook 20% Individual research paper 50%

*Course dates may be slightly adjusted if the train line to Churchill reopens, as the train has historically been run only a few times per week.