Application for Certificate in Environmental Impact Assessment (EIA)
REVISED SEPTEMBER 2013

Name: _____ **Application Date:** _____

ID: BOO_____ **Graduation Date:**_____

Program:_____ **Degree:**_____

NOTE: SUBMIT APPLICATION FORM & TRANSCRIPT TO DR. LANE'S MAILBOX, 2ND FLOOR OF DEPT. OF BIOLOGY-MAIN OFFICE-BY SEPT 15 FOR FALL GRADUATION AND BY APRIL 1 FOR MAY GRADUATION.

Certificate Requirements
4 full credits with a minimum grade of B in each class included for the certificate in the following categories. YOU NEED TO ATTACH YOUR TRANSCRIPT TO THIS APPLICATION FORM.
1.Required EIA CLASS
2.Introductory Class in Science or IDS from Table 1*
3.3rd Level Environmental Classes with largely theoretical content from Table 2*
4. 3rd Level Methods Classes that provide field, laboratory, statistical, modelling and related experience from Table 3*
5.3rd and 4th Level Supplementary Classes in Major and Related Disciplines from Table 4 *
*See attached Certificate Requirement Tables
Note: As usual, students will be required to meet the stated pre-requisites of all classes listed below or the permission of the instructor. Several classes on Tables 1-4 include cross-listings. No class can be included twice for the Certificate by using their different cross-listings.
Application Procedures: Students must fill out this form and submit a transcript, having highlighted the classes they wish to be considered, to Dr. P. Lane (Patricia.Lane@Dal.Ca) by April 1st.

Required EIA Class (0.5 credits) to be taken in the fourth year.	Mark	Term-Year	Done
BIOL 4001.03			
ENVS 4001.03			
ENVE 4772.03			

Introductory Classes (minimum of 0.5 credits from Table 1)	Mark	Term-Year	Done

Theory-Based Classes (minimum of 1.5 credits from Table 2)	Mark	Term-Year	Done

Field and Methods-based Classes (minimum of 0.5 credits from Table 3)	Mark	Term-Year	Done

Higher-level Supplementary Classes (minimum of 1.0 credits from Table 4)	Mark	Term-Year	Done

Certificate Requirements:

Table 1. Introductory Classes (minimum of 0.5 credits from the following list)			
BIOL 2060.03 Introductory Ecology	GEOG 2100 X/Y.06 Environment and Culture (SOSA 2100.06)	INTD 2002.03 Introduction to Development 2 (GEOG 2202.03)	SUST 2000.06 Humanity in the Natural World
ERTH 2410.03 Environmental Issues in Earth Science	INTD 2001.03 Introduction to Development 1 (GEOG 2201.03)	OCEA 2000X/Y.06 (or OCEA 20001.03 + OCEA2002.03) The Blue Planet	SUST 2001.06 Environment, Sustainability and Governance: A Global Perspective
ENVS 1000X/Y.06 Introduction to Environmental Science			

Table 2. Theory-Based Classes (minimum of 1.5 credits from the following list)

BIOL 3060.03 Environmental Ecology	ERTH 4440.03 Geomorphology and Landscape Evolution	MGMT 3701.03 Resource and Environmental Problem Solving 1: Sustainable Ecosystems	
BIOL 3061.03 Communities and Ecosystems	ENVS 3200.03 Introduction to Environmental Law	MGMT 3702.03 Resource and Environmental Problem Solving 2: Sustainable Industries	
BIOL 3062.03 Behavioural Ecology	ENVS 3501.03 Environmental Problem Solving I	OCEA 3001.03 Introduction to Physical Oceanography	
BIOL/MARI 3063.03 Resource Ecology	ENVS/ERTH 3601.03 Global Biogeochemical Cycles	OCEA 3002.03 Introduction to Chemical Oceanography	
BIOL 3065.03 Conservation Biology	GEOG/ERTH 3440.03 Geomorphology	PLAN 3010.03 Urban Ecology	
BIOL 3069.03 Population Ecology	INTD/GEOG 3114.03 Environment and Development	SOSA 2260.03 Society, Politics and Culture	
BIOL 3601.03 Nature Conservation	MARI/BIOL 3067.03 Ecology and Evolution of Fishes	SOSA 3060.03 Social Change and Development	
ERTH 3400.03 Fundamentals of Hydrogeology	MARI/BIOL 3761.03 Marine Ecology	SUST 3000.03 Global Approaches to Environmental Decision-Making	

Table 3. Field and Methods-based Classes (minimum of 0.5 credits from the following list)			
BIOL 2601.03 The Flora of Nova Scotia	BIOL/MARI 3626.03 Field Studies of Marine Mammals	BIOL 4061.03 Design of Biological Experiments	ENVS 3300.03 Contaminated Site Management
BIOL/MARI/OCEA 3003.03 Dynamics of Biological Oceanography	BIOL 3630.03 Field Methods in Animal Behaviour	BIOL 4062.03 Analysis of Biological Data	ENVS 2100.03 Environmental Informatics
BIOL 3066 Plant Ecology	BIOL/ENVS/MARI 3632.03 Applied Field Methods in Fish Ecology	BIOL 3762 Terrestrial Ecology	ENVS 3001.03 Environmental Science Field School
BIOL/MARI 3221.03 Diversity of Algae	BIOL 3634 Agroforestry	BIOL 4323 Biologging & Biotelemetry	INTD 3002.03 Development Practice
BIOL/MARI 3301.03 Invertebrate Biology BIOL 3327.03 Entomology	BIOL/ENVS/GEOG 3633.03 Spatial Information and GIS in Ecology	ERTH 3402.03 Practical Hydrogeology	INTD 3103.03 Participatory Development: Methods and Practice
BIOL/ENVS 3615.03 Methods in Ecology	BIOL/ENVS/MARI 3664.03 Intertidal Ecology and Diversity	ERTH/ENVS/GEOG 3500.03 Geoscience Information Management	OCEA 4220.03 Numerical Modelling of Atmospheres and Oceans
BIOL 3622.03 Ornithology	BIOL 3665.03 Food Web Assembly and Modeling	ERTH/GEOG 4520.03 GIS Applications to Environmental and Geological Sciences	OCEA 4380.03 Marine Modelling
BIOL/ENVS/MARI 3623.03 Applied Coastal Ecology	BIOL 3666.03 Species Invasions	ERTH/GEOG 4530.03 Environmental Remote Sensing	STAT 3345.03 Environmental Risk Assessment
BIOL/ENVS 3624.03 Urban Freshwater Systems	BIOL/MARI 3680.03 Scientific Diving Methods for Marine Ecology	ENVS 2000.03 Urban Field School	SUST/ENVS 3502.03 The Campus as a Living Laboratory

Table 4. Higher-level Supplementary Classes (minimum of 1.0 credits from the following list)			
BIOL/MARI 4060.03 Marine Mammalogy	ENVS/GEOG 3400.03 Human Health and Environment	OCEA 4120.03 Physical Oceanography	OCEA 4230.03 Biology of Phytoplankton (BIOL/MARI 4662)
BIOL 4065.03 Sustainability and Global Change	ENVS 4002.03 The Science of Wetland Ecosystems	OCEA 4130.03 Chemical Oceanography	OCEA 4330.03 Benthic Ecology (BIOL/MARI 4666.03)
BIOL 4160.03 Political Ecology	INTD 4013.03 Environmental Conflict and Security	OCEA 4140.03 Biological Oceanography (BIOL/MARI 4661.03)	OCEA/BIOL/MARI 4335.03 Environmental Impacts in Marine Ecosystems
ERTH/GEOG 4450.03 Introduction to Landscape Simulation	MGMT 4009.03 Coastal Zone Management	OCEA 4160.03 Fisheries Oceanography (BIOL/MARI 4369)	SUST 4000.06 ESS Capstone
ENVS 3301.03 Enterprise Sustainability	OCEA/ERTH 4110.03 Geological Oceanography	OCEA 4222.03 Estuary, Coast and Shelf Dynamics	