



Environmental Science 120

WITH A FOCUS ON
'FISHERIES...Miramichi Watershed'

 Fall 2014
Mr. A. Hallihan



GOAL...
Reduce
Human
Impact
on the
Environment





Environmental Science 120

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Course content...

UNIT 1 - An Overview of Environmental Science

- Issues: Environmental/Economic/Social Justice
- Population Growth and Resource Limitations
- Research of Current NB Environmental Issues

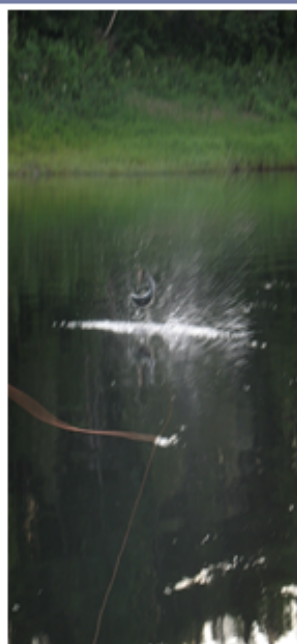
UNIT 2 - Sustainable Development

- Ecology Around The Miramichi River
- Environmental Awareness (Historic vs Current)
- Sustainable Ecosystems and Communities

UNIT 3 - Investigating Environmental Issues

THEME - Fisheries...Miramichi Watershed

- Conservation and Stewardship
- Species Identification and Role in Ecosystem
- Watershed Management and Freshwater Systems
- Reading the Water and Characteristics of the River
- Atlantic Salmon Anatomy, Life Cycle and Survival Requirements
- Fly Fishing: Rules, Regulations, Etiquette and Live Release
- Recreation: Fly Tying, Knot Tying and Casting Techniques



Possible activities...

- Multiple Guest Speakers
- Broodstock/Spawning (MSA)
- Lab with Salmon Scales /Age Determination
- Lab with Salmon Dissection (Cooke Aqua.)
- Fish Friends Salmon Aquarium/Leadership
- Miramichi Salmon Association Tour
- Underwater Robot Exploring Miramichi River



Student Project...

PART 1 - Independent Research Paper

- research environmental issue
- summarize findings and communicate results

PART 2 - Collaborative Presentation

- team up with others to support a cause
- cohesive and collaborative presentation
- actively participate in other presentations

PART 3 - Eco Challenge

- design activities that demonstrate...
 - ✓ Personal Appreciation of the Environment
 - ✓ Stewardship of the Environment
 - ✓ Advocacy for the Environment
 - ✓ Engagement of Others in Environmental Inquiry






Evaluations...

Tests/Quizzes/Assignments/Labs... 40 %
Eco-Challenge Project..... 30 %
Final Exam..... 30 %
***Academic Incentives (course outline)



Course Outline and Website...

<http://mvhs.nbed.nb.ca/teacher/mr-hallihan>
 [Env. Sci. 120 Course Outline Fall 2014.pdf](#)






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Mr. Hallihan

 **Fall 2014 Environmental Science 120 Course Outline**
Posted August 28, 2014
 [env_sci_120_course_outline_fall_2014.pdf](#)
Here are all the details to the course now being offered first semester...be sure to check it out!

Mr. Hallihan

- You must [login](#) in order to post into this group.

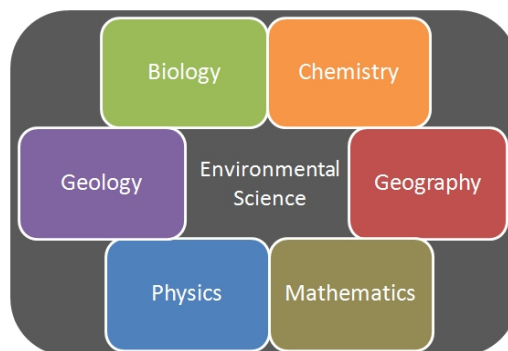
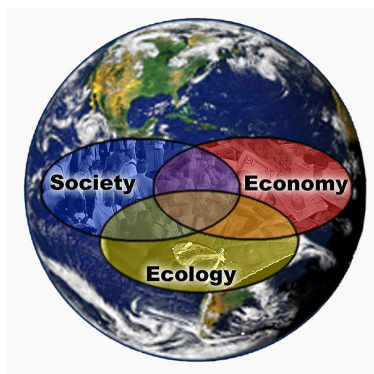


What is Environmental Science?



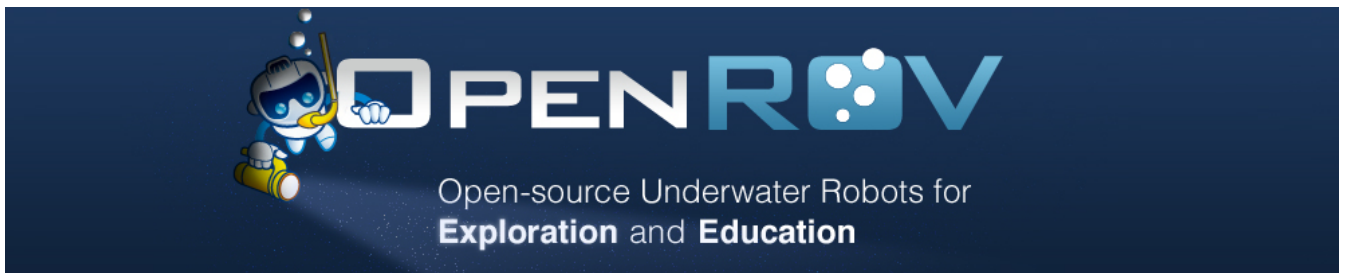
Environment literally means surroundings. Everything that affects an organism during its lifetime is collectively known as its environment.

It is the study of how humans interact with the environment



THEME: Watersheds...Environmental Science?





'MVHS Underwater Robots'

Many Thanks To...





<http://openrov.com/>

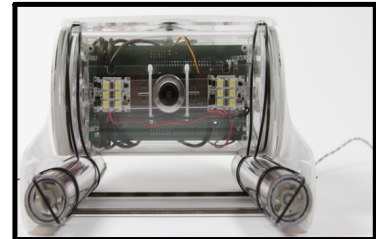


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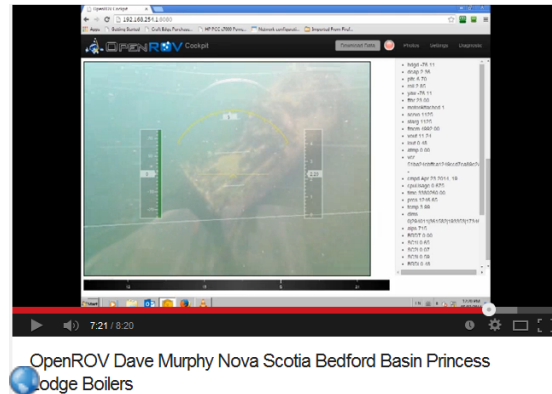


OpenROV

Like 3,061



What is an OpenROV? What can it do?



INTERESED in 'Building the Device'?

CS 110 offered period 2 this semester!!!

Attachments

Env. Science 120 Fall 2014.ppt

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