



# Environmental Science 120

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



WINTER 2016

Mr. A. Hallihan

# Course content...

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## UNIT 1 - An Overview of Environmental Science

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

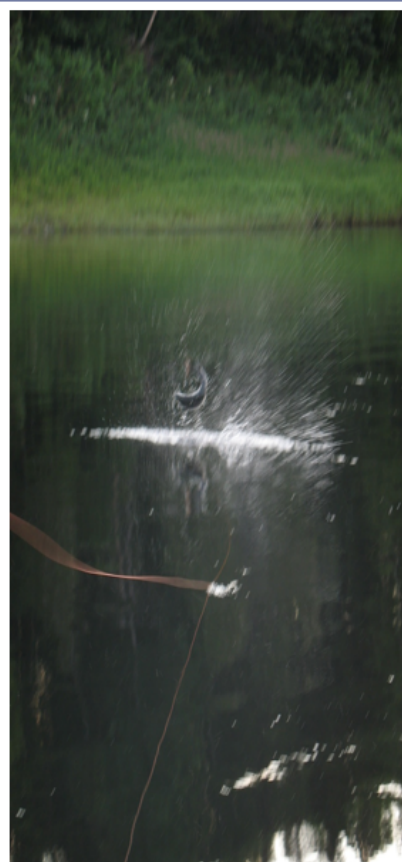
## UNIT 2 - Sustainable Development

- Ecology and Feeding Relationships
- 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
- Predators of Atlantic Salmon and Other Fish Species
- Recreation of Fly Fishing



## Possible activities...

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- Multiple Guest Speakers
- Atlantic Salmon Conservation Schools Network
- Lab with Salmon Scales/Age Determination
- Lab with Salmon Dissection (Cooke Aqua.)
- Fish Friends Salmon Aquarium/Leadership
- ASD North Fish Science & Recreation Workshops
- Atlantic Salmon & Fly Fishing Symposium (MSA)
- MVHS Greenhouse: Sustainable Development
- MVHS MakerSpace: Underwater Robotics



# Student Project...

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## 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

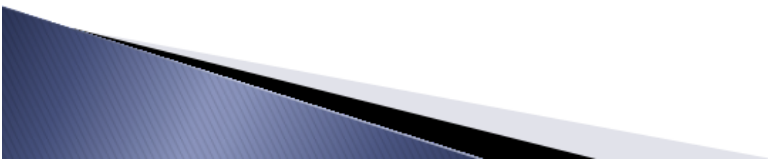
- design activities that demonstrate...
  - ✓ Personal Appreciation of the Environment
  - ✓ Stewardship of the Environment
  - ✓ Advocacy for the Environment
  - ✓ Engagement of Others in Environmental Inquiry



# Evaluations...

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Tests/Quizzes/Assignments/Labs...	50 %
Eco-Challenge Project.....	25 %
Final Exam.....	25 %

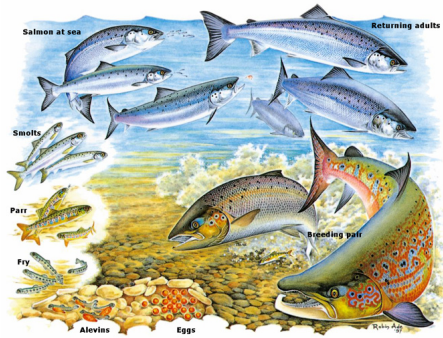




### Environmental Science 120

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'FISHERIES...Miramichi Watershed'

 FALL 2015  
Mr. A. Hallihan



**GOAL...**  
Reduce  
Human  
Impact  
on the  
Environment



# Welcome Back!!!

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- Bell schedule (3 lates = 1 day unexcused)
- Fire drill
- "Code black"
- Classroom rules and procedures...
  - #1 rule: COMMON SENSE!!!
  - Be prepared & Be respectful: property, peers & learning
  - School rules:
    - \* smartphones turned OFF and put away.
    - \* MP3 players (teacher discretion).
    - \* no hats or hoods.
    - \* hallway pass for travel during classtime.
- Course change sheet

# **BELL SCHEDULE**

<b>8:25</b>	<b>Warning Bell</b>
<b>8:30 - 9:30</b>	<b>Period 1 / Homeroom</b>
<b>9:35 - 10:35</b>	<b>Period 2</b>
<b>10:40 - 11:45</b>	<b>Period 3/Announcements</b>
<b>11:45 - 12:40</b>	<b>Lunch</b>
<b>12:40 - 1:40</b>	<b>Period 4</b>
<b>1:45 - 2:15</b>	<b>Independent Study/Math Help</b>
<b>2:20 - 3:20</b>	<b>Period 6</b>





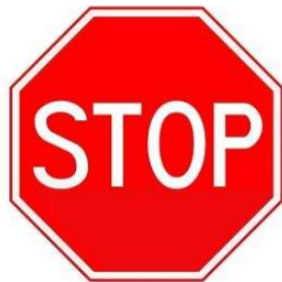
## REMEMBER...

✓ remove your hat and



✓ turn cell phones **OFF!!!**





Thanks for remembering  
this is a



Peanut/Nut  
Free School

## **NEW for 2015 - 2016...**

### **INDEPENDENT STUDY:**

Monday - Period 1

Tuesday - Period 2

Wednesday - Period 3

Thursday - Period 4

Friday - Period 5

## **NEW for 2015 - 2016...**

### **ATTENDANCE:**

4 Days - Period 1 Teacher calls home

6 Days - Student meets with Guidance

8 Days - Period 1 Teacher calls home

10 Days - Meeting with Parents/Guardians

15 Days - Student meets with Guidance

20 Days - Recommend Removal

## **NEW for 2015 - 2016...**

### **MARKS:**

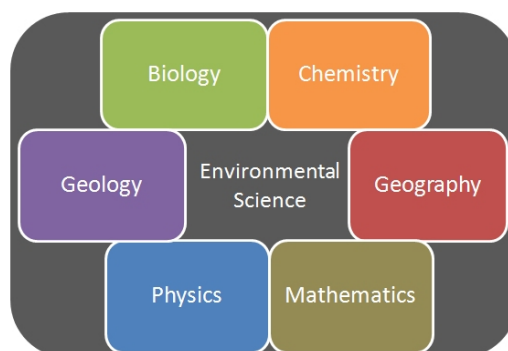
- \* No Academic Incentives
- \* All exams will be valued at 25%

# 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




What is the 'River' experience like...say fishing?





# Homework...

 Worksheet - Simon Says.pdf

## Attachments

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Env. Science 120 Fall 2015.ppt

Activity - Simon Says.pdf