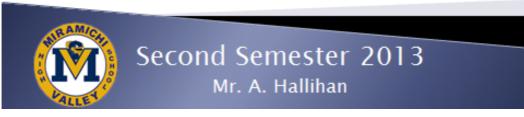




# **Environmental Science 120**

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



### Course content...

#### UNIT 1 - An Overview of Environmental Science

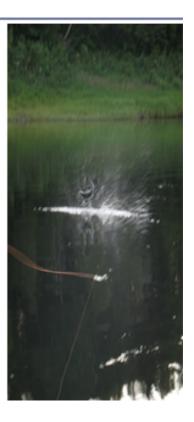
- Issues: Environmental/Economic/Social Justice
  Population Growth and Resource Limitations
  Research of Current NB Environmental Issues

#### 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
- Miramichi Salmon Association
- Population Estimation (DF0 Trapnets)
- Biology Lab with Smolt Dissection
- Fish Friends Salmon Aquarium/Leadership
- Debate on Environmental Issues
- Involvement in Dieppe Fly Fishing Forum
- A Day on the 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



# Partners in developing the course...

- MSA, ASF, NB Salmon Council, DFO
- UNB (Biology Department)
- Ducks Unlimited Canada
- Hammond River Association
- Province of NB???
  - \* Natural Resources
  - \* Tourism and Recreation
  - \* Environment
  - \* Education



### UNIT 1 - An Overview of Environmental Science

- The Issues
- Population Growth and Resource Limitations
- Researching Current Environmental Issues

## **ACTIVITY...**

- 1) On looseleaf, list any current environmental issues you are aware of.
- 2) Classify the issue as either: LOCAL / REGIONAL / GLOBAL
- 3) Using the marker provided, write your issue on the appropriate chart paper.

**NOTE:** If your issue is already there, put a check mark beside the issue.

## **DISCUSSION... TOMORROW...**

- ISSUES... 'Who, what, why, where and how'
- \*\*\* Let's PRIORITIZE these issues...

LOCAL	REGIONAL	GLOBAL
- clear cutting	- pesticides	
- fish farming	***Finish tomorrow	