



Environmental Science 120 WITH A FOCUS ON 'FISHERIES...Miramichi Watershed'



Second Semester 2014 Mr. A. Hallihan

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
- Population Estimation (DF0 Trapnets)
- Lab with Salmon Scales/Age Determination
- Lab with Salmon Dissection (Cooke Aqua.)
- Fish Friends Salmon Aquarium/Leadership
- ASF/MSA Salmon Tagging Research
- Miramichi Salmon Association Tour
- 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





Evaluations...

Env. Sci. 120 Course Outline Winter 2014.doc

| Tests/Quizzes/Assignments/Labs 40 % |
|-------------------------------------|
| Eco-Challenge Project 30 % |
| Final Exam 30 % |





THEME: Watersheds...Environmental Science?



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







Homework...

Worksheet - Simon Says.pdf

Env. Science 120 Jan. 2014.ppt Env. Sci. 120 Course Outline Winter 2014.doc Activity - Simon Says.pdf