

Nackawic High School

Introduction to Environmental Science 120

Syllabus

Time: Semester 2, Period 5, 2016-2017

Teacher: Mr. Gallop

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Texts: None

Course Objective:

The objective of this course is for students to develop the knowledge base and skills for investigating and analyzing environmental issues and for communicating their knowledge and analysis to others.

Performance Objectives

By the end of this course, students will be able to:

1. Outline the ecological processes inherent in natural ecosystems and how these can be impacted by human activity
2. Characterize traditional Indigenous and historic European relationships with the environment in NB, and how those relationships have changed over time as reflected in current environmental policies and legislation
3. Identify the impact of personal behaviors on the environment, and recognize that caring for and sustaining natural environments is an element of responsible global citizenship.
4. Demonstrate an understanding of the importance of sustainable development, considering environmental, social, cultural, and economic aspects, to effectively resolve issues.
5. Analyze and propose solutions to current environmental issues through research, experimentation and a presentation of their findings with respect to the issue

Key to this learning will be the development of competencies in Critical Thinking and Creative Problem Solving, Collaboration, Communication, Personal Development and Self Awareness, and Global Citizenship

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Units of Study

Unit 1: An Overview of Environmental Science

The Issues

- current understanding of issues - environmental, economic and social justice perspectives

Population Growth and Resource Limitations

- population dynamics in natural systems
- human population trends and influences
- resource limitations and carrying capacity

Researching Current Environmental Issues

- class investigation of current issues, modeling research and investigative skills
- start of student project

Unit 2: Sustainable Development

Ecology

- interrelated systems that support living systems
- human impact on natural systems

Environmental Awareness

Indigenous ways of knowing nature

- historic and current attitudes to the environment
- early European settlers' attitude to the environment
- development of values for conservation and sustainability
- current land and water use
- history of the Western environmental movement

Sustainable Ecosystems and Communities

- dynamics of healthy and sustainable ecosystems
- principles of sustainable communities
- relationships between local, regional, and global ecosystems and societies
- principles of sustainable development

Unit 3: Investigating Environmental Issues

- defining the issue
- investigating the natural ecosystem and human impact
- considering social, cultural, and economic aspects
- investigating human and environmental perspectives and solutions

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Possible issues: Agriculture, Forests, Fresh Water, Ocean Fisheries, Energy Resources, Climate Change, Water and Air Pollution

Grading Calculations:

Assignments:	20%
Tests:	20%
Projects:	10%
Current Events Journal	10%
Eco-Challenge	20%
Exam	20%

Throughout the course, there will be daily assignments that will be collected on assigned days. In addition, there will be 2 term projects and an eco-challenge. All projects are required components of this course. No mark will be assigned until completion of these projects.

EXPECTATIONS: We respect each other and work together to be successful together.

Student:

1. Attend class regularly and on time (please review the attendance policy for missed days and work)
2. Bring course materials (binder, lined paper, pencil/pen and notebook) every day.
3. Participate in class, work to their ability and encourage others to do so.
4. Be organized and aware of quiz, assignment and test dates.
5. Obtain notes (from students) and handouts (from teacher) if time is missed.
6. If a test is missed, it must be made up within three days of returning.
7. Attend and ask for extra help when necessary.
8. Be a good citizen
9. Contribute to a positive and safe learning environment
10. Contribute to an orderly learning environment (resolving conflict by constructive means)

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Making this course and the term a great one is up to YOU!!!

Always do your best and get involved and you will have success at
Nackawic High School - the best high school in New Brunswick!
We are glad you are part of our school community.

Parents please remember that all school policies will be sent electronically through Synervoice to each home. A paper copy is available for any students or parent who requests one. Please contact the school office for these paper copies at (506) 575-6020

Extra help is available most noon hours and afterschool upon request by students.

Student Signature: _____

Parent Signature: _____

Phone Number: _____

Parent email: _____