



DEPARTMENT OF SCIENCE  
COURSE INFORMATION SHEET FOR  
**ENV101 – ENVIRONMENTAL SCIENCE**

*All members of the Science Department at Clinton Community College use the respective course templates as a basis for their course syllabi. Faculty may, at their discretion, change the order of the course content or add course content.*

**COURSE NUMBER AND TITLE:** ENV101 – Environmental Science

**COURSE SECTION:** *TBA*

**CONTACT HOURS:** 5      **CREDIT HOURS:** 4

**SEMESTER AND YEAR:** *TBA*

**INSTRUCTOR’S NAME, TELEPHONE NUMBER, EMAIL ADDRESS, OFFICE NUMBER, AND OFFICE HOURS:** *TBA*

**I. COURSE DESCRIPTION:**

This course is an interdisciplinary science course that provides an overview of how the earth works, how we as humans are affecting the earth's global environment, and how we deal with the environmental problems we face. There will be a strong emphasis on environmentally sustainable societies, pollution prevention and control, conservation and ecological factors, economic issues and influences, energy sources, and renewable versus nonrenewable resources. There are three hours of lecture and one two-hour laboratory per week

This course meets the SUNY General Education course requirements for natural sciences.

**II. COREQUISITE:** ENG101 – English Composition or equivalent

**III. COURSE OBJECTIVES, SUNY GENERAL EDUCATION KNOWLEDGE AREA LEARNING OUTCOMES AND ASSESSMENT:**

**COURSE OBJECTIVES:**

As the result of instructional activities, students will be able to:

1. demonstrate how to effectively write, particularly in a technical manner
2. using appropriate lab documentation
3. use computation skills to evaluate data
4. apply the Scientific Method of reasoning
5. use critical thinking skills
6. apply and integrate knowledge of environmental science and
7. demonstrate and use the tools of science and technology
8. define the terminology used in environmental science

9. define biodiversity and natural resources and describe numerous examples
10. discuss sustainability & the key components of a sustainable environment
11. compare and contrast environmental connections within nature
12. define pollution prevention and waste reduction techniques
13. interpret data on population and exponential growth
14. define energy and discuss energy efficiency
15. describe potential solutions to environmental problems
16. describe the importance of working together to bring about change,

#### **SUNY GENERAL EDUCATION KNOWLEDGE AREA LEARNING OUTCOMES:**

Students will demonstrate the ability to:

1. understand the methods scientists use to explore natural phenomena, including:
  - observation
  - hypothesis development
  - measurement and data collection
  - experimentation
  - evaluation of evidence
  - employment of mathematical analysis
2. apply scientific data, concepts and models in one of the natural sciences

#### **IV. REQUIRED TEXTBOOK AND MATERIALS:**

##### **REQUIRED TEXTBOOK:**

Environmental Science, 11<sup>th</sup> edition; Miller. Brooks/Cole  
ISBN #0-534-42250-0

##### **REQUIRED MATERIALS:**

Safety glasses are required for all on-campus sections.

**V. METHODS OF INSTRUCTION/COURSE ORGANIZATION:** *To be determined by the respective instructor.*

**VI. ATTENDANCE PROCEDURE (INCLUDING MAKEUP POLICY):** *To be determined by the respective instructor.*

**VII. BIBLIOGRAPHY OF READINGS (IF APPLICABLE):** *To be determined by the respective instructor.*

**VIII. METHODS OF EVALUATION (INCLUDING THE CALCULATION OF COURSE GRADE):** *To be determined by the respective instructor. The methods of evaluation shall include tests (test types, length and weight of each), papers (weight of each), projects (weight of each), and other forms of evaluation (weight of each).*

**IX. GRADING SCALE:** *To be determined by the respective instructor. The grading scale shall indicate what numerical scores correspond to the following grades: A, A-, B+, B, B-, C+, C, C-, D+, D, and F.*

*Please Include:* If you have, or suspect you may have, any type of disability or learning problem that may require extra assistance or special accommodations, please speak to me privately after class or during my office hours as soon as possible so I can help you obtain any assistance you may need to successfully complete this course. You should also contact Laurie Bethka, Room 420M in the Academic Assistance Center, for further assistance.

**X. GENERAL TOPICS OUTLINE:**

1. Humans and Sustainability
2. Ecology and Sustainability
3. The Science of Community Ecology
4. Sustaining Biodiversity
5. Sustaining Resources
6. Environmental Quality
7. Sustaining Human Societies

**XI. ACADEMIC INTEGRITY:** Academic honesty is expected of all Clinton Community College students. It is academically dishonest, for example, to misrepresent another person's work as one's own, to take credit for someone else's work or ideas, to accept help on a test, to obtain advanced information on confidential test materials, or to intentionally harm another student's chances for academic success.

**XII. COURSE CONTINUITY PLAN:** In the case that the college officially closes because of an emergency which causes a short term disruption of this course, we will utilize e-mail to continue this course in the short term (1-3 weeks). All students need to utilize their campus e-mail to receive course related information.