# **Syllabus**

# **Course Name and Number**

Creative Commons Attribution License Environmental Science (CEVS 1103, Louisiana Course Articulation Matrix) is licensed [Creative Commons Attribution 4.0 International License](http://creativecommons.org/licenses/by/4.0/) by Andrea Alexander, Waneene Dorsey, Adronisha Frazier, John Galiotos, Murty S. Kambhampati, and Soma Mukherjee.

**Course Title and Number:** Environmental Science (CEVS 1103)

**Course Brief Description:** 3 credit hours. This course provides an overview of Environmental Science principles, important global concerns, and relevant issues affecting Louisiana. This course provides a brief history of environmental science, eco-friendly resource utilization such as water, soil, air, renewable and non-renewable energy, environmental preservation, principles of biodiversity, ecological conservation, global nutrition, and environmental justice and ethics. There is an emphasis on fundamental principles of resource socioeconomics, energy and sustainability, water and land, green best practices for effective conservation, applicable case studies, and environmental health. This course contains 11 chapters separated into 11 modules with ancillary materials.

**Prerequisite Knowledge:** No prerequisites are required for this course.

**Course Goals (Course Learning Objectives):**

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

1. Explain the interdisciplinary nature and sustainability principles of environmental science.
2. Explain how air quality management is important for clean and healthy atmosphere.
3. Discuss the factors impacting biodiversity at the local, national, and global levels.
4. Differentiate between the positive and negative aspects of nonrenewable and renewable energy sources.
5. Critique overall waste management strategies taken by government agencies and non-profit organizations.
6. Describe various types of environmental hazards and toxins and their effect on biota.
7. Describe or explain various concepts involved in nutrient cycling.
8. Describe or explain how human activities contribute to the influx of Greenhouse gases in the Earth.
9. Explain how the environmental health affects the public health.
10. Explain factors that influence global nutrition, starvation, and malnutrition.
11. Reflect on the role of humans regarding environmental justice.

**Course Materials:** Pressbooks Textbook: Environmental Science through the Louisiana Lens. Authors: Alexander, A., Dorsey, W., Frazier, A., Galiotos, J., Kambhampati, M. S., Mukherjee, S.

Textbook link: [Chapter 1 – Environmental Science (pressbooks.pub)](https://louis.pressbooks.pub/environmentalscience/chapter/chapter-1-introduction/)

**Instructor Contact Information (varies):**

Name:

Email:

Phone:

Office:

Office Hours:

Communication policy:

**Course Schedule:** In this schedule, the topics and the corresponding course materials (chapters, PowerPoints, videos, etc.) are listed in sequence.

| **Module** | **Topics and Concepts** | **Corresponding Course Materials** |
| --- | --- | --- |
| 1 | Introduction | Textbook Chapter 1: Introduction  Chapter 1 PowerPoint Slides |
| 2 | Water, Soil, and Air Quality | Textbook Chapter 2: Water, Soil, and Air Quality  Chapter 2 PowerPoint Slides |
| 3 | Biodiversity | Textbook Chapter 3: Biodiversity  Chapter 3 PowerPoint Slides |
| 4 | Renewable and Non-Renewable Energy Sources | Textbook Chapter 4: Renewable and Non-Renewable Energy Sources  Chapter 4 PowerPoint Slides |
| 5 | Environmental Waste | Textbook Chapter 5: Biodegradable and Non-Biodegradable Waste  Chapter 5 PowerPoint Slides |
| 6 | Environmental Hazards | Textbook Chapter 6: Environmental Hazards and Toxicology  Chapter 6 PowerPoint Slides |
| 7 | Nutrient Cycling | Chapter 7: Biogeochemical Cycles  Chapter 7 PowerPoint Slides |
| 8 | Climate Change | Chapter 8: Global Climate and Greenhouse Gases  Chapter 8 PowerPoint Slides |
| 9 | Public Health | Chapter 9: Impact of Environmental Health on Public Health  Chapter 9 PowerPoint Slides |
| 10 | Agriculture and Nutrition | Chapter 10: Global Nutrition, Starvation, and Malnutrition  Chapter 10 PowerPoint Slides |
| 11 | Social Implications from Environmental Science | Chapter 11: Environmental Justice  Chapter 11 PowerPoint Slides |

**Weekly Breakdown (**The schedule is tentative.)

|  |  |  |
| --- | --- | --- |
| **Weekly** | **Content Covered** | **Activities** |
| Week 1 | **Introductory Module** | Getting to Know Moodle/Canvas  Introduction Assignment/Discussion |
| Week 2 | **Chapter 1** | Textbook Reading  Chapter 1 Quiz or 1-4 H5Ps\* |
| Week 3 | **Chapter 2** | Textbook Reading  Chapter 2 Quiz or 1-4 H5Ps |
| Week 4 | **Chapter 3** | Textbook Reading  Chapter 3 Quiz or 1-4 H5Ps  Exam 1 Review |
| Week 5 | **Exam 1** | Exam 1 covers chapters 1 – 3. |
| Week 6 | **Chapter 4** | Textbook Reading  Chapter 4 Quiz or 1-4 H5Ps  Exam 2 Review |
| Week 7 | **Exam 2** | Exam 2 covers chapter 2. |
| Week 8 | **Chapter 5** | Textbook Reading  Chapter 5 Quiz or 1-4 H5Ps |
| Week 9 | **Chapter 6** | Textbook Reading  Chapter 6 Quiz or 1-4 H5Ps  Exam 3 Review |
| Week 10 | **Exam 3** | Exam 3 covers chapters 5 – 6. |
| Week 11 | **Chapter 7** | Textbook Reading  Chapter 7 Quiz or 1-4 H5Ps |
| Week 12 | **Chapter 8** | Textbook Reading  Chapter 8 Quiz or 1-4 H5Ps  Exam 4 Review |
| Week 13 | **Exam 4** | Exam 4 covers chapters 7 – 8. |
| Week 14 | **Chapter 9** | Textbook Reading  Chapter 9 Quiz or 1-4 H5Ps |
| Week 15 | **Chapter 10** | Textbook Reading  Chapter 10 Quiz or 1-4 H5Ps |
| Week 16 | **Chapter 11** | Textbook Reading  Chapter 11 Quiz or 1-4 H5Ps  Final Exam Review |
| Final Exam | **Final Exam** | The final exam is cumulative and covers chapters 1 – 11. |

\* H5P could be multiple choice questions or a couple of short answer questions or True/False questions or discussion question or watch a brief video and summarize or answer few follow-up questions, etc.

**Course Policies:** *[outline these as best as you can in terms of what is required for this course]*

* **Technology Requirements**
  + You need to understand how your computer, word processor, browser, Internet connection, WebEx, Zoom, and Canvas work.
  + For software, you need to have access to a word processing program that can accept and open documents from Microsoft Word. Most of the files I upload to Canvas/Moodle are in this format. You will also need to download Adobe Reader (freeware) to access some of the files for the course.
* **Computer Skills**
  + You will need to be familiar with word processing programs and know how to upload and download documents.
* **Evaluation** 
  + Students will be evaluated through discussion assignments, participation, quizzes, and exams. Successful completion of this course will be determined by the scores earned on formative and summative assessments. Assignments will be noted if there are single or multiple attempts.
  + There are H5P content in Pressbooks, which will be used as self-practice.
* **Grading Policy**

*Grading scale*

*90 – 100 A*

*80 – 89 B*

*70 – 79 C*

*60 – 69 D*

*50 – below F*

*Late work policy –* Late work is not accepted.

**University Policies and Support:**

* **Code of Conduct**
* **Online Etiquette**
* **Academic Integrity**
* **Diversity Statement**
* **Accessibility and Disability Services**
* **Technology Support**
* **Academic Support Services**