**WAYLAND BAPTIST UNIVERSITY**

**WBUONLINE CAMPUS**

**KENNETH L. MATTOX SCHOOL OF MATHEMATICS & SCIENCES**

# WAYLAND MISSION STATEMENT:

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

# COURSE TITLE AND NUMBER:

ENVS 3301-VC01; Environmental Science

# TERM: Summer 2025

# NAME OF INSTRUCTOR: Dr. Clancy Collom

# OFFICE PHONE NUMBER AND WBU EMAIL ADDRESS: 806-291-1119, collomc@wbu.edu

# OFFICE HOURS, BUILDING AND LOCATION: Online from home location

# CLASS MEETING TIMES AND LOCATION: Online

# CATALOG DESCRIPTION:

Study of human interactions with the environment focusing on human population growth; hydrologic cycle; biodiversity; soils and agriculture; patterns in energy usage; air and water pollution; global climate change; waste management, and sustainable technologies.

# PREREQUISITE:

None

# TEXTBOOK:

Wright, R. and D. F. Boorse 2017. *Environmental Science: Toward A Sustainable Future. 13th edition*. Pearson.

# REQUIRED MATERIALS:

# COURSE OUTCOME COMPETENCIES:

By completion of this course, students will understand the:

1. principles of and patterns in human population growth

2. interactions between humans and the hydrologic cycle

3. principles of soil fertility and food production

4. effects of human activities on biodiversity and ways to mitigate those effects

5. renewable and non-renewable sources of energy used by human societies

6. patterns in industrial pollution and mitigation measures to prevent pollution

7. principles and implications of global climate change

# ATTENDANCE REQUIREMENTS:

In accordance with university policy, attendance in this course will be documented through a student’s active engagement in weekly assignments, quizzes, or similar course elements requiring deliverables or direct communication between the student and the instructor through the course Black Board (Bb) site. Instructions for completing these assignments will be posted by the instructor prior to or at the beginning of each week of the class. Failure to attend or participate in this class may result in administrative withdrawal from the course or grade reductions. Failure to meet posted deadlines will result in a grade of zero or point reductions for the assignments affected.

# [Link to Statement on Academic Integrity](https://www.wbu.edu/academics/writing-center/Academic%20Integrity%20Statement%20Pol%208.4.1%20Attch%20Oct%2020222.pdf)

# DISABILITY STATEMENT:

In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Disability Services Coordinator and Academic Coach serves as the coordinator of students with disabilities and must be contacted concerning accommodation requests (office (806) 291-1057. Documentation of a disability must accompany any request for accommodations.

# COURSE REQUIREMENTS AND GRADING CRITERIA:

Students will be required to access readings, videos, or podcasts posted on Bb or through various internet sources. Assignments may require participation in various interactive tools including discussion boards, journals, on-line quizzes or exams, written assignments, and student-produced video or audio files. Access to a reliable and reasonably fast internet connection is essential to successful participation in this course.

**Grading**: *Recommended but at the discretion of the instructor*

Your course grade will be determined based on the number of points you earn on guided reading quizzes, essay/research paper, and through class participation. Details are provided below. The class will be graded on a 1000 point scale. While the lab will be graded on a 250 point scale. Your grade will be calculated by $\frac{Points from lecture\*0.75+points from lab}{10}$

Lab (250 pts): Lab will consist of online labs and labs that you can do with the materials around you. If you do not have a needed material, please contact me immediately once the lab for that week is posted.

Guided Reading Quizzes (200 pts): Each week will have a quiz to help you understand the content. This quiz will emphasize the important concepts and will serve in place of powerpoints.

Discussion Board (200 pts): Each week a topic of environmental interest will be posted. You are required to participate in the conversation surrounding these topics in a professional and academic manner. Proper grammar and complete sentences will be required.

*Research Report/Essay (250 pts) – investigate a topic in Environmental Science of particular interest to you.*

*Unit Assigments (300 pts – 50 points each) – Each unit will have a project assignment that will help you engage and think about environmental science in a broader way.*

Reflective Final (50 pts): The final in the course will be a short essay reflecting on your views of environmental science.

*Making it personal: A goal of this course is for you to become personally invested in the field of environmental science. In that view, some of the assignments will allow you latitude in exploring topics of particular interest to you.*

**More information about assigments will be provided during the course on Blackboard.**

*Final Grades*: Final letter grades will be assigned as follows: A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; and F = 59% or less.

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the vice president of academic affairs to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

# TENTATIVE CLASS SCHEDULE:

The attached class schedule is subject to modification by the instructor. Actual due dates will be posted throughout the term. Changes will be posted on Black Board to give students sufficient opportunity to adjust their schedules accordingly.

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| **Week** | **Date** | **Day** | **TOPICS** | **Chapter Readings** |
| **1** | **June**  | 2 | Mon | Intro; Economics and Policy | 1, 2 |
| **2** | **June** | 9 | Mon | ecology; diversity and conservation | topics from Chs. 3-7 |
| **3** | **June** | 16 | Mon | Population growth; water | 8,9,10 |
| **4** | **June** | 23 | Mon |  Soil; Food; pests | 11,12,13 |
| **5** | **June** | 30 | Mon | ENERGY - FF; Nuclear; Renewables | 14, 15, 16 |
| **6** | **July** | 7 | Mon |  Climate Change; Air Poll | 18, 19 |
| 7 | **July** | 14 | Mon | Water Pollution; Wastes;  | 20, 21 |
| **8** | **July** | 21 | Mon | Haz chems; Sustainability | 22,23 |
| **8** | **July** | 26 | Sat | **Summer Session Ends** |  |

**COURSE COMMUNICATION POLICY:**

Wayland email is the official method of communication between instructors and students taking courses through Wayland Baptist University. Students are REQUIRED to establish and activate their Wayland email account. Instructors reserve the right to deny email from other sources.

*Revised 07/26/23*