

Environmental Science 288

1. Course Title:

Environmental Science 288 - How Green Technology Works
Class Days and time: Fri 2 – 3:50 PM
Carver Hall: 3102

2. Instructor:

Maurice Crawford, Ph.D.

3. Contact Information:

Dr. Maurice Crawford
Carver Hall - Room 2101
Office Phone: (410) 651-8447
Email: mkcrawford@umes.edu

4. Textbook: None.

5. Learning Outcomes:

1. Students will learn of different methods used to study and measure the environment;
2. Students will learn how their lifestyle can affect the environment.
3. Students will be able to describe the different types of alternatives to fossil fuels for the production of energy
4. Students will understand and describe the trade-offs of alternative energy production

6. Nature of the Course:

There no prerequisites for this course and the course will consist of lab activities and discussions that will play a vital role in your learning the material and understanding the concepts. Therefore, attendance is important! ***Read the assigned readings prior to coming to class so you will be able to participate during class.*** Student attendance and participation in class discussions will be one of the elements in establishing a grade for this course.

7. Class Attendance:

Attendance is required for each class. It is like work; if you are going to miss class you must notify the instructor beforehand. Therefore excused absences require **prior** approval from the Instructor. Absences must be documented with acceptable reasons given for missing a class. It is the student's responsibility for getting lecture notes and other material missed. Failure to attend classes without documentation will result in a grade reduction. Please read the official UMES attendance policy attached.

Students arriving after the roll has been taken will be marked as tardy. Students arriving more than 20 minutes after the scheduled start time will be counted as absent for that day. Three marks of tardy will convert automatically to one absence. Students who know they will be arriving late should contact the instructor prior to class.

8. Labs, Quizzes and Assignments:

All the lectures will be supported by Power Point presentations. You can access the slides for the class via Blackboard so be sure to familiarize yourself with Blackboard Learning found on the My UMES home page.

- Labs – Each week we will have a lab that will have a set of questions, exercises or report due. It is expected all students will read the labs prior to arriving in class and develop questions from the lab handout. These questions will serve as the basis for discussion during the lab.

It is recognized, that circumstances will occasionally arise that prevents a student from doing a lab at its scheduled time. Should this occur, students will have to produce a credible, written excuse for the missed lab and will have some time at the end of the semester to make up a lab. Make up labs may be not be in the same as the missed lab.

- Quizzes will be given from time to time. The short quizzes will be administered at the *beginning* of the class period and may be based on the reading assignment given the previous class meeting or at the *end* of the class period and may be based on the class discussion or readings for that class. Please complete any assigned readings ahead of the lecture.
- Assignments are to be completed by their due date, or one class period after the due date in cases of excused absence. Assignments and lab reports turned in late are subject to a *10% deduction per day* up to one week past the due date. No assignments will be accepted more than one week after the due date. Make-up assignments/tests will be accepted/given when there is an excused absence, approved by the Instructor, prior to the scheduled assignment/test. Make-up work may be different from original assignment/test (e.g. essay verses multiple choice exam). Students who miss assignments/tests due to unexcused absences will not be permitted to make up this work

Your success in this class, and that of your college career, is your responsibility. The more classes you miss, the more difficult it will become to succeed well.

Semester Schedule (subject to change at the discretion of the instructor)

Week	Date	Topic
1	January 30	No class
2	February 6	Introduction & Discovery Pipe
3	February 13	Energy, work and electricity
4	February 20	Passive designs
5	February 27	Energy from the wind
6	March 6	Thermal energy from light
7	March 13	Biofuels
8	March 19	<i>Spring Break No classes</i>
9	March 26	Electricity from light
10	April 3	Better ways to illuminate
11	April 10	Hybrid and electric cars
12	April 17	Energy efficiency
13	April 24	Energy to and from the earth
14	May 1	Composting toilets
15	May 8	Final exam

9. Grading and Evaluation:

Final grades will be established by the following formula:

Laboratories	60%
Quizzes and Assignments	25%
Final Exam	10%
Class Participation & Attendance	5%

The only extra credit given will be for completion of the course evaluation and attending SANS seminars.

10. Scheduling Conferences with Students:

I have an open door policy for students. You can stop by the office at any time or make an appointment by calling the office number above or sending me an email. Please do not use Blackboard Learning to contact me via email. Use the campus mail (mkcrawford@umes.edu).

I am here to help you learn, however you are responsible for your own success. If you are having difficulty with the text, subject matter, concepts, or assignments, please let me know before the first exam; please make an appointment with me as soon as you feel you need help. Do not wait until the end of the semester or just before the final exam.

Precautionary Disclaimer

“The instructor reserves the right to amend the course syllabus during the term. If changes must be made, students will be notified. Notice given during class is considered proper notice. Office hours are subject to change depending on the instructor’s schedule.”

Instructions for student athletes: Any student athlete enrolled in class must make an appointment within the first week of the semester to meet with the instructor so that game schedules and travel schedules can be discussed and the instructor can clarify for the athlete procedures and policy on make-up work. Student athletes are reminded that absences (whether excused or unexcused) do not relieve them of their responsibility to complete course assignments. Instructors must know in advance that absences related to athletic events will occur so that early planning can take place.”

Cell phone and Courtesy Policy: To maintain an effective learning environment, please: (1) *turn off your cell phones*; (2) do not engage side conversations with fellow students; (3) do not work on assignments for other classes; and (4) *show respect and courtesy* toward your instructor and fellow classmates at all times.

Dress Code: Students are expected to exercise good judgment concerning appropriate dress for the classroom. Dressing appropriately in an environment that is conducive to learning requires that clothing not be distracting and is sufficient in quality and quantity to cover and protect the body (particularly in laboratories). Individual freedom of dress is upheld at UMES, but students should be respectful of sensitivities of others and recognize that dressing professionally is a part of training the university desires

to provide. Attire that is more appropriate for the bedroom or night clubs should not be worn in the classrooms, as such may be distracting or offensive to others.

General Reminders for Students: Students whose names do not appear on the official class roster will not be allowed to attend the class after the add period ends. A grade of “I” will not be given to students who have a failing grade going into the finals.

UMES Policy on Class Attendance

All students are expected to attend all classes. Excessive unexcused absences for any reason may result in either a low grade or course failure. All students will be considered excessively absent from a class if they miss a class more hours during the semester or term than the class meets each week.

1. The University expects all students to take full individual responsibility for academic work and progress. They are expected to attend classes regularly, for consistent attendance offers the most effective opportunity open to all students to gain command of the concepts and materials of their courses of study. **Absences (whether excused or unexcused) do not alter what is expected of students qualitatively and quantitatively.**

2. The University will excuse the absences of students that result from instances such as: illness (where the student is too ill to attend class), death in the immediate family*, religious observance (where the nature of the observance prevents the student from being present during the class period), participation in University activities at the request of University authorities, and compelling circumstances beyond the student’s control. Students requesting excused absences must furnish acceptable documentation to their course instructors to support their assertion that absences were the result of one of these causes. However, the nature of some courses will preclude makeup of assessments missed. In these cases, students will not be penalized for excused absences; grades will be completed on actual assessment as explained in the course’s syllabus. Otherwise, students with excused absences will be given an opportunity to make up missed assessments. The responsibility for granting excused absences and determining which assessments can be made up lies with the instructor of each individual course. **Absences (whether excused or unexcused) do not relieve the students of their responsibility to complete the course assessments.**

3. Students must notify their instructors of the reason of any absence as soon as possible. Where the reason for an absence from a scheduled assessment is known in advance (for example, in cases of religious observance or participation in University activities at the request of University authorities), students must inform their instructors two weeks prior to the absence, if known that far in advance or immediately upon discovering the impending absence. Prior notification is particularly important in connection with examinations and other major assessments since failure to reschedule them before conclusion of the final examination period may result in loss of credits during the semester. Where the reason is not known in advance (for example, in cases of health related emergencies or compelling circumstance beyond their control), students must inform their instructors as soon as possible after its development.

Disability Statement

Students capable of success, regardless of their disabilities are admitted to the university. The faculty and staff of the University of Maryland Eastern Shore work cooperatively to assist their students in achieving their educational goals. Moreover, students with disabilities are accommodated in accordance with both federal and state laws. To receive special accommodations for a disability, the student must register with Student Disability Services before any accommodations can be granted. At the time of registering for disability services, please bring documentation to support your claimed disability. The documentation must be within three years and provided by a licensed professional with expertise in the special disability area. If you have questions about disability services or accommodations, please contact Dr. Dorling

Joseph at (410) 621-3446. The Student Disability Services office is located in the Student Services Center (SSC), Suite 2169.

Disruptive, Disorderly, or Reckless Conduct

Disruptive, disorderly, or reckless conduct includes indecent exposure, lewd behavior, bomb threats, false fire alarms, and other actions which disrupt normal University functions, activities, and processes of the University community. When disorderly or disruptive conduct occurs in class, a faculty member may file a complaint of misconduct with the Conduct Administrator, and after a hearing, if that complaint is upheld; the student may be administratively withdrawn from said class, and may then appeal. Disruptive, disorderly, or reckless conduct includes, but is not limited to the following:

- a. Threats, physical abuse, harassment, or hazing which threatens or endangers the health, safety, or welfare of a member of the University community;
- b. Fighting or physically assaulting another person (see fighting/battery);
- c. Recklessly causing physical harm or causing reasonable apprehension of such harm;
- d. Obstructing or disrupting teaching, research, administrative and public service functions;
- e. Obstructing or disrupting disciplinary proceedings or other authorized University activities;
- f. Intentional participation in campus demonstrations which disrupt the normal operations of the University and infringe on the rights of other members of the University community;
- g. Leading or inciting others to disrupt scheduled and/or normal activity in any campus area, causing infringement on the rights of members of the University community; or,
- h. Playing loud music, within a residence hall or in a vehicle (moving or parked);
- i. Trespass or unauthorized entry to any University premises, facility, property, or at a University-sponsored event or activity.
- j. Disruptive to others; conduct which is likely to disrupt the activities of a reasonable person going about his/her daily Affairs in