MEET YOUR INSTRUCTOR

Ali E. Kashef; Professor and Coordinator for Technology Management & Graduate Programs

Greetings,

Welcome to CAP 3140-Environment, Technology, and Society (Capstone) guided independent study (GIS) course at UNI. I will be working with you through the UNI Guided Independent Study Program to finish the course requirements for category 6 (capstone experience) in Liberal Arts Core area.

I am a faculty member in the department of Technology, teaching a number of classes in the area of Manufacturing, Technology management, and Environmental programs for undergraduate and graduate students in the College of Humanities Arts and Sciences (CHAS) at UNI. I am currently serving as a program coordinator for the Cooperative Education, Technology Management and the Graduate Program in the Department of Technology at UNI.

My research interests include environment, technology, and society, total quality management (TQM) in industry and higher education, technology management, industrial supervision and management, productivity improvement in manufacturing and services, team building, operation & supply management and vocational education.

I have thirty three years of experience in higher education and in industry. I have served as member of editorial board For the Association of Technology, Management, and Applied Engineering (ATMAE) journal, and International Journal of Modern Engineering (IJME). I received my B.S. in building Engineering and Design from Lincoln University, Missouri in 1980, M.S. in Industrial Management from Central Missouri State University, Missouri in 1981, and Ph.D. in Vocational Studies from the Southern Illinois University, Illinois in 1990. I am married and have two sons; one in college and one in High school.

I strongly believe that everyone as a good citizen must preserve our natural resources, promote cleaner energy technologies, and leave those valuable bounties to our future generations as we find them. We need to educate everyone about this and then lead to change policies for a better world.

I love teaching and doing research with my undergraduate and graduate students in the area of clean energy technologies. I have taken groups of UNI students to a summer camp in China for the course I taught called Environment, Technology and Society. I have also taken UNI students to England, Scotland, and Ireland for the same course.

Please do not hesitate to reach me for any questions.

Tel: 319 273 2596 or e-mail: kashef@uni.edu

Best wishes,

Ali Kashef

OVERVIEW

This course emphasizes the relationships and interactions of the physical, biological, technological, & cultural components of the environment. Selected interdisciplinary problems are studied. This builds upon the previous university experience of the student and seeks to develop environmental literacy.
Prerequisites:

Satisfied university requirements in English & Math; completion of both Life Sciences, and Physical Sciences requirements; junior or senior standing.

Textbook:


There is a [companion website](#) for the textbook that contains a practice quiz, table of contents, and internet reference resources. Please feel to use this resource if you wish.

COURSE ORGANIZATION

This course will be delivered over the World Wide Web, utilizing web pages, and a learning management system (eLearning). All assignments will be submitted via eLearning. Your examinations will be proctored. Please refer to the Assignments for specific instructions. Type all assignments using a word processing program and save as a file. If you are using a word processing program other than Microsoft Word, then please save the file as Rich Text Format.

Submit your assignment by clicking on the **Assignment Submission** link in the **Course Content** menu on the left and uploading your assignment. **Need help?** See the [eLearning Tutorials](#) for instructions on how to submit an assignment.

Course Objectives:

1. **Develop** an understanding of the complexity and interaction of the environment through awareness of many environmental components.
2. **Realize** the existence of constrains upon human behavior which are imposed by the natural and cultural environment.
3. **Perceive** the global aspects of environmental, technological, and societal interactions.
4. **Examine** ethical considerations of increased fossil fuel usage.
5. **Understand** the impact of renewable and nonrenewable energy sources for a sustainable environment.
6. **Appreciate** the value of all academic disciplines in contributing to future survival in a changing world.
7. **Expand** your appreciation of a variety of political and ethical attitudes as they become involved in course material.

Course Structure & Requirements:

Classes will be conducted using a combination of course (lesson) notes, reviewing assigned textbook articles, studying and understanding the ideas covered in lecture notes, answering questions in the lessons, taking practice quizzes, researching Internet resources and other books/journal references, and visual media such as New York Times, pbs.org and others. Your assignments are important and regularly due for a successful competition of the class.

Essay sections on your assignments will be in an open forum format that you will be expected to contribute based on assigned readings, personal experience, observations, Internet and other references, on line videos, and factual information. Any references used in the essays must be provided in an appropriate format such as APA or others.

Action, as well as knowledge is necessary to accomplish a goal. Therefore you will complete a CAP 3140 GISW **ETS class project report on last section of the class**. Professionalism, style, accuracy, evidence of
preparation, outcomes, and recommendations will be important for the class project.

Written Assignments:

Nine of the lessons require both a short essay or essays and a questionnaire based on ideas covered in the lesson article. Each will be graded on the quality of thinking reflected by the paper and how well that thinking is communicated in standard written English. General requirements for the essays are listed as follows:

- Must be typed using a word processor (NO hand written assignments scanned and emailed).
- Name and lesson number must be identified.
- Must conform to standard written English.
- There is no page limitation to answer the essay question.
- Must be written professionally - NO exact repeats and cut and paste from article(s) covered.
- Must reflect original thinking with your own words.
- When you use opinions and claims, make sure to support them by citation and references.
- Must be properly referenced. The academic integrity and plagiarism issues must be given higher attention.
- The Essay needs a minimum of three references.
- Try to use real life examples when you answer the questions and the essay.

ETS Class Project:

All students are expected to complete a class project based on their interest in ETS subjects. The ETS class project will be your chance to demonstrate depth of knowledge and application of that knowledge to an ETS problem or issue. The project will involve a proposed solution with a demonstration of specific aspects of the issue or problem. You must submit (e-mail attachment is preferred) a half to one page, double spaced, word-processed proposal as your ETS project proposal once you completed the last chapter assignment. You are also welcome to contact the instructor to begin an ETS class project subject in advance without waiting the end of the class sections. The ETS class proposal should include the following:

- ETS Project subject and team members
- The objective(s) that the team want to accomplish
- The strategy that the team will use to accomplish
- The outcome(s) that the team will present.
- Possibility of any recommendations for further studies

Final Exam:

The final exam will be an in-person exam proctored by your local library or other officials consisting of objective and subjective questions in multiple choice, T/F, and short essay format. The final test will be comprehensive covering all lessons discussed in the class.

Academic Honesty:

Please review the university’s policy on Academic Honesty if you are unfamiliar with it (Sec. 3.01 Academic Ethics/Discipline of UNI’s Policies and Procedures available on the university’s web page). In this course, such behavior, intentional or not, will earn you an F for the course and
may be cause for my recommendation of your suspension from the university. In short, academics are very touchy about such things. We work hard on our research, our writing and other endeavors. Theft of ideas is as serious, if not more serious, than theft of physical property.

Dates to consider:

Please pay attention to the dates below regarding completion of this course and your anticipated graduation.

If you plan to graduate in May, then complete course by May 1. If you plan to graduate in August, then complete course by August 1. If you plan to graduate in December, then complete course by December 1.

**GRADING**

Please note that UNI Guided Independent Study requires that you submit all assignments and complete all exams to receive a grade in this course.

The course grade will be based on the following requirements:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Points</th>
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<tbody>
<tr>
<td>9 Assignments (30 pts each)</td>
<td>270 pts</td>
</tr>
<tr>
<td>ETS Project</td>
<td>100 pts</td>
</tr>
<tr>
<td>Final Exam</td>
<td>80 pts</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>450 pts</strong></td>
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</tbody>
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A letter grade will be assigned on the following scale:

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>426 - 450</td>
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</tr>
<tr>
<td>416 - 425</td>
<td>A-</td>
</tr>
<tr>
<td>391 - 415</td>
<td>B+</td>
</tr>
<tr>
<td>371 - 390</td>
<td>B</td>
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<tr>
<td>361 - 370</td>
<td>B-</td>
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<td>346 - 360</td>
<td>C+</td>
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<td>301 - 315</td>
<td>D+</td>
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<td>281 - 300</td>
<td>D</td>
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<tr>
<td>271 - 280</td>
<td>D-</td>
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<td>0 - 270</td>
<td>F</td>
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