1. COURSE INFORMATION

Classes held: Lectures - Monday, Wednesday; 11:00 AM – 12:20 PM
Credits: 4
Prerequisite: None; Environmental Sciences Major

2. FACULTY INFORMATION

Faculty Name: Mukesh Gupta, PhD; Assistant Professor of Environmental Sciences
Email: mukesh.gupta@auw.edu.bd
Office Location: H603
Office Hours: Monday and Wednesday, 3:00 – 4:00 PM | other times by appointment only
Qualifications: PhD in Environmental Sciences & Policy
Areas of Expertise: Climate Change & Energy for Development, Low Carbon Growth Analysis

3. TEXT AND OTHER COURSE MATERIALS


4. COURSE OBJECTIVES AND DESCRIPTION

Course overview:

Energy and the Environment is a multidisciplinary course designed to contextualize the energy use in the human history extended to the contemporary world. It aims at discussing the environmental problems due to use of energy of different carriers and means of resolving the problems. This course will overview energy technologies for sustainable development. Moreover, this course is an interdisciplinary introduction to Energy and the Environment as a discipline and as a way of thinking. The course aims at introducing students to the main concepts, issue areas, and cross-cutting disciplines associated with energy and environmental studies. This course is more about options and opportunities for taking a different path toward a more sustainable world.

LEARNING OUTCOMES

<table>
<thead>
<tr>
<th>Student Learning Outcomes</th>
<th>Method of Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course will offer students the knowledge and expertise they will need in relation to sustainable energy and the environmental impact of energy systems. Students will gain an understanding of various ways of energy production such as solar photovoltaic, thermal, wind, biomass, and nuclear energies, as well as capture and storage of fossil-fuel carbon. Students will also learn about the intersections of energy with economic development, environmental quality, policy, and human behavior.</td>
<td>Writing assignments, Quiz, case-based assignment, group work, and class performance assessment</td>
</tr>
</tbody>
</table>
5. ATTENDANCE REQUIREMENT & GRADING POLICY

Attendance: AUW expects 100% punctual class attendance. Attendances are mandatory. Attendance will be taken and unexcused absences will be subject to academic actions. For learning more details on AUW ‘Attendance Policy’ please consult Academic Bulletin 2017-18 (http://asian-university.org/academic-programs/academic-calendar-bulletin/).

Grading:

<table>
<thead>
<tr>
<th>Item</th>
<th>Marks</th>
<th>Grading Scale</th>
<th>Grade</th>
<th>Grading Scale</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes/ in-class writing/Tests</td>
<td>20</td>
<td>100-96.68%</td>
<td>A+</td>
<td>73.33-76.67%</td>
<td>C</td>
</tr>
<tr>
<td>Article summaries</td>
<td>20</td>
<td>96.67-93.33%</td>
<td>A</td>
<td>70.00-73.32%</td>
<td>C-</td>
</tr>
<tr>
<td>Mid-term take home exam</td>
<td>20</td>
<td>93.32-90%</td>
<td>A-</td>
<td>66.68-69.99%</td>
<td>D+</td>
</tr>
<tr>
<td>Final Research Paper</td>
<td>30</td>
<td>86.68-89.99%</td>
<td>B+</td>
<td>63.33-66.67%</td>
<td>D</td>
</tr>
<tr>
<td>Attendance and Participation</td>
<td>10</td>
<td>83.33-86.67%</td>
<td>B</td>
<td>60.00-63.32%</td>
<td>D-</td>
</tr>
<tr>
<td>Sub-total</td>
<td>100</td>
<td>80.00-83.32%</td>
<td>B-</td>
<td>59.99% or below</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>76.68-79.99%</td>
<td>C+</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Distributions of marks are approximations and subject to change based on academic activities performed

6. INSTRUCTIONS ON WRITING ASSIGNMENTS

We will have two sessions per week. The sessions are designed as seminar and lectures where we may discuss the assigned readings. Active participation is encouraged and expected. To facilitate seminar discussion you will have to write short (about one page long) summaries/reaction of the assigned readings as well as questions and comments for discussion. The quality of the summaries/reaction you write is essential for successful completion of the course. They should be well organized, concise, state the main point(s) of the author(s) and show that you have carefully read and reflected upon the texts.

Quizzes and class tests during the class time will count towards your final grade. Participation will be rewarded with points. Tests will include multiple choice, short answer questions, and essay questions. Particular instructions for specific exams, if any, will be provided as necessary.

There will be a take home mid-term exam which will be due by TBD. The course ends with a final research paper which will be due by TBD. In order to write the research paper, you have to do extra research and library work. Make sure that you properly refer to the sources you use in accordance with the AUW regulations.

7. CONTACT WITH YOUR PROFESSOR

Preferred method of communication: face to face talk during office hours. Therefore, you are strongly encouraged to discuss any topic on this course during office hour declared by the course instructors or other time by appointment. However, if you are in critical need of communication after office hours you may email your instructor accepting some delay in response.

8. COURSE CONTENTS

- The multidisciplinary nature of energy & environmental studies
- Energy use in the human history
- Use of Energy and Energy resources
- Energy Sector Strategies to Support Green
- Impact of energy use- Air pollution
- Impact of energy use- Radiation hazards
- Impact of energy use-Transportation of fuel and wastage; Waste disposal
- Impact of energy use-Hydroelectric project
Making-up exams: Students should not miss any exams or deadline for any assignments. However, you will be allowed to make-up a test (or assignment/report submission) within a week of the missed exam if your absence is designable as ‘Excused Absence’ according to AUW policy. Quizzes are unannounced and there are no makeovers for these.

9. PLAGIARISM & ACADEMIC INTEGRITY

All members of the AUW Community are bound by the Academic Honor Code published in the Academic Bulletin (http://www.auw.edu.bd/academics/course-bulletin/).

The integrity of students’ academic work is very important to AUW faculty. Universities are based upon the fundamental principle that the work presented truly belongs to the author, because the academic community revolves around ideas and creativity. Each person’s ideas are his or her contribution to the academic community. Therefore, taking another person’s ideas and representing them as one’s own is a serious form of dishonesty. Similarly, cheating (copying someone else’s work, asking for answers, sharing answers, etc.) and other forms of dishonesty (falsifying data, making up references, etc.) are also serious breaches of this honor code.

Plagiarism is intentionally or unintentionally taking credit for another’s words or ideas. You may not plagiarize in your academic work, and you must adhere to the following:

- When you use someone else’s words (whether they are from a distinguished author or a classmate’s paper), place the words you have copied in quotation marks and provide the appropriate citation of author and source. A good guideline to use to avoid plagiarism is to make sure quotes of three or more sequential words from someone else are put into quotation marks.
- If you paraphrase (reword) another person’s ideas, then you must also cite the source. Paraphrasing must involve changing the words and sentence structure of the original source.
- Cite materials you copy or paraphrase from the Internet, even if the author is not identified.

The various academic disciplines (humanities, social sciences, sciences) use slightly different formats for footnotes, endnotes, and bibliographies. Your professor for a particular class will tell you which format he or she wants you to use in that class.

Copying, asking for answers, sharing answers, and any other form of cheating (misrepresenting your own work and knowledge) on exams or quizzes are all forms of academic dishonesty.

Other Forms of Academic Dishonesty

1. Making up references, quoting wrong sources, etc.
2. Falsifying data.
3. Misrepresenting your situation to be excused from academic work.
4. Submitting the same paper in more than one class.
5. Informing a student in a later class about questions on tests or quizzes.
6. Misrepresenting your academic work or qualifications in any way.

Full details about plagiarism, academic dishonesty and penalties are available in the Academic Honor Code in the Academic Bulletin.
10. STRATEGIES TO PREVENT PLAGIARISM & VIOLATIONS OF ACADEMIC INTEGRITY

For any academic writing, students are advised to check for plagiarism before submission using free online plagiarism checker (e.g. http://smallseotools.com/plagiarism-checker/).

Use of any electronic device is not allowed in the class (lectures, exams). Please switch off your cellphone while you are in the class. If your cellphone (or any other electronic device) is switched on during any exam it will be considered as academic dishonesty and will be punished as per university policy.

11. CLASS BEHAVIOUR

Please be on time. You will not get class attendance and not be allowed to attend quiz/class test if you are late.

12. OTHER IMPORTANT INFORMATION

Course moodle link: http://103.98.135.8/moodle/course/view.php?id=553