



The American University of Kurdistan (AUK)
College of Art and Science
Department of Interior Design

Course Syllabus

IND308 Environmental Systems for interior design

Course lecturer: Kawar Salih

Kawar.salih@auk.edu.krd

Fall 2021

Section 1 Course Profile:

Department:	Department of Interior Design
Program:	BSc Interior Design

Course Code – Full:	Course Code – Short:
IND308	
Course Title:	Credit Hours:
Environmental Systems for Interior design	3

Semester:	Spring 2021
Academic Year:	2021-2022

Course Instructor:	Kawar Salih, MSc	
Delivery Method:		
Lecture	Tutorial	
2 hours	1 hour	

Section 2 Course Syllabus:

2.1 Course Contents (Description)

A healthy environment is an absolute necessity for the well-being of all organisms, including Human beings. However, man has reached the pinnacle of evolution is trying to bring about changes in the environment to suit his convenience. Unfortunately, this convenience is temporary. These negative changes to the environment are cumulating massively after the industrial revolution and have a counter effect on the environment.

This course examines the relationships between building, site, landscape and sustainability through the lens of ecology and systems thinking. Topics include basic concepts of global warming and climate system are studied in this course. It will also introduce basic strategies of sustainable building design in different climatic regions through studying vernacular architecture of a place then how these strategies are articulated in to the new design. The course ends up with a small project design to let students apply those strategies on a small scale project.

2.2. Course Main Objectives

The course objective is to improve design and construction practices so that the built environment provides proper wellbeing, less negative impact on the ecosystem and natural resources as well as cost less to operate. This meant to protect our natural resources and improve the built environment so that the planet's ecosystems, people, enterprises, and communities can live a healthier and more prosperous life.

It also aims to reinforce the student's background on the environment system, climate change and the idea of sustainable development. It aims to build a better understanding of those notions as well as the policies and strategies of sustainable development. These skills will enable students to easily understand, analyses, and design green buildings in the future.

2.3 learning Objectives and outcomes:

LO Code	Learning Objective	Taxonomy
A	Comprehend the environmental system works.	Comprehension
B	Describe the impact of the "climate change" and its consequences as well as the major reasons behind it.	Comprehension
C	Distinguish and compare between different climatic regions and the main characteristic of each zone.	Application

D	Illustrate the notion of the thermal comfort and why is important to achieve that in the built environments.	Application
E	Analyse and categorise strategies of the sustainable development in term of planning and policy.	Analyse
F	Predesign analysis and site selection criteria, design considerations, and guiding principles of a sustainable site.	Analyse
G	Formulate a systematic procedure of different passive design strategies and building analyses on different climatic regions	Synthesise
H	Gain knowledge about sustainable safe materials for architectural buildings	Comprehension
I	Analyse pros and cons of environmental aspect of different architectural building.	Analyse
J	Be able to evaluate architectural design from environmental point of view.	Evaluation
K	Apply and Evaluate sustainable design techniques on architectural design	Evaluation

2.4 Weekly Plan (Teaching Schedule - Course Outline):

Week	Lecture	Topic	Description	Objectives	
1	1	Introductory week	"Documentary movie"		
	2	course book discussion and distribution		A	
2	3	Introduction to the Climate Change, Ecology and Built Environment	The Big Picture	B	
	4	Climatic regions & Climate adaptive buildings (Lessons from Vernacular Architecture)		C	
3	5	Tutorial		B	
	6	Thermal Comfort		D	
4	7	Sustainability as a solution (urban Policies, water, waste , recycling)		E	
	8	Tutorial		E	
5	9	Presentation		Cases of Study on Vernacular Architecture	A,B, C,D, E
	10	Sustainable site management		Sustainable Building Design strategies	F
6	11	Passive Design Strategies (Solar Control)	G		
	12	Passive Design Strategies (Natural Ventilation)	G		
7	13	Tutorial	G		

Department of Interior Design

	14	Passive Design Strategies(Passive Heating and Cooling)		G
8	15	Presentation	Cases of study on sustainable buildings	I, J, H
	16	Passive design Strategies (Daylight)		G
9	17	Green roofs and Walls		G
	18	Sustainable safe materials for indoor spaces		H
10	19	Tutorial		
	20	Building Environmental Performance Assessment		J
11	21	Tutorial	Small Project Design	K
	22	Tutorial		K
12	23	Tutorial		K
	24	Tutorial		K
13	25	Tutorial		K
	26	Presentation		K
14	27	Revision		
	28	Final Exam/Assignments Submission		

Table 3: Weekly Plan

* Dates and topics contained in this teaching schedule are subject to change. Any modification will be announced in the class and on the website. It is the responsibility of student to stay informed on any updates. If any of days above fall into a holiday, the class, including the exam dates will shift accordingly.

2.5 Educational Resources

Core materials:

- Binggeli, Korcky, 2003. *Building Systems for Interior Designers*. New Jersey: John Wiley & Sons.
- Gruber, P., 2011. *Biomimetic architecture: Architecture of Life and Buildings*. Mörtenbach: Springer.
- Smith, P. F., 2001. *Architecture in Climate Change*. Oxford: Elsevier.
- Thomas, R., 1996. *Environmental Design: An introduction for architects and engineers*. New York: Taylor and Francis.

2.6 Methods of Teaching

This course is taught through a collection of lecture classes and tutorial sessions.

2.7 Course Requirements

In order to accomplish the learning outcomes of this course, the learner is required to

- Attend class lectures
- Participate in class activities
- Read and study assignments
- Solve assigned problem sets
- Complete test, quizzes, homework, etc.
- Complete a comprehensive final exam

If student do not take a final exam, you cannot pass the course.

Personal business, such as travel, employment, family obligations, illness, weddings, graduations, and attendance at public events, is not an official, documented University conflict. The dropped quiz scores are intended to provide you with some flexibility with respect to personal business. If you feel that there are extenuating circumstances that should qualify you for an exception to this policy, you may schedule an appointment with me to discuss the issue in person.

2.8 Assessment

- In-class activities: Students are expected to participate in multiple activities taking place in the classroom or lab.
- Assignment: students are required to prepare assignment on certain cases of studies and present it inside class
- One small design project: to apply theoretical knowledge on a real design project.
- Quiz
- Final exam to assess students' knowledge of the course content.

2.9 Assessment Methods

Activity	Points
Final exam	150
Design Project	150
Assignments (2) (presentations)	100
Quiz and Activities	100

Class activity:

Class activity will be evaluated frequently during the course by allowing the students to answer short questions at the end of the lecture. These class activities will be worth a total of 50 points, which will be recorded in the grade book on the AUK website.

Examinations: One examination will be given during the semester towards the end of the semester. The exam is a closed-book, closed-notes examination. The time for these exam is 120 minutes. The time of the examinations will be announced at least two weeks prior to the exams. This course has no midterm exams

Assignments: Students are required to prepare two seminars (PowerPoint presentation) during the course. They will be divided into small groups to work together to read, study, analyze and prepare presentations on some case of studies related to different topics through the course. The details of the assignment will be regulated and discussed with student later. All students should participate in presenting their PPT. Late work will be lowered one full letter grade for each class period after the assigned due date. Extenuating circumstances will be considered on an individual basis.

Final course grades will be assigned as follows:

Grade	Points Collected	Percentage	Grade Points	Meaning of Grade
A	450-500	90.00 –100	4.00	Excellent
B ⁺	425-449	85.00-89.99	3.5	Very Good
B	400-424	80.00-84.99	3.00	Very Good
C ⁺	375-399	75.00 -79.99	2.5	Good
C	350-374	70.00-74.99	2.00	Good
D ⁺	325-349	65.00-69.99	1.50	Satisfactory
D	300-324	60.00-64.99	1.00	Pass

F	Less than 300	Less than 60	0.00	Fail
IP			0.0	The course is still in progress
I			0.0	Assigned for incomplete course

2.10 Judicial Statement/Academic Misconduct

Academic misconduct is defined as plagiarism, cheating, fabrication, or facilitating any such act. For purposes of this section, the following definitions apply:

- (1) Plagiarism: The adoption or reproduction of ideas, words, statements, images, or works of another person as one’s own without proper acknowledgement.
- (2) Cheating: Using or attempting to use unauthorized materials, information, or study aids in any academic exercise. The term academic exercise includes all forms of work submitted for credit or hours.
- (3) Fabrication: Unauthorized falsification or invention of any information or citation in an academic exercise.
- (4) Facilitation: Helping or attempting to help another to violate a provision of the institutional code of academic misconduct.

Academic misconduct will result in actions taken as defined by the AUK. In addition to other possible disciplinary sanctions that may be imposed through regular institutional procedures as a result of academic misconduct, the instructor has the right to assign an F or a zero for the work in question or to assign an F for the course. If a student believes he or she has been falsely accused of academic misconduct, and if his or her final grade has been lowered as a result, the student may appeal the case through the appropriate institutional procedures.

2.11 Drop/Withdrawal Policy and Dates

Drop and withdrawal are to be in accordance to AUK policy.

2.12 General conduct in class

The instructor has primary responsibility for control over all classroom behaviour and can direct the temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or conduct which otherwise violates the general rules and regulations of AUK.