



## **AUK Template Syllabus**

**Course Prefix/Number:** GDES452  
**Course Title:** 3D Modeling & Animation  
**GDES Elective Course**  
**Class Meeting Times:** MW 9:30 – 10:45am  
**Spring2023**  
**Class Location:** G221

**Instructor:** Ramy Khair  
**Office Location:** G327  
**Office Phone:** 1802040 / ext. 3638  
**E-mail:** rkhair@auk.edu.kw  
**Office Hours:**  
MW 2:00 - 3:30 / 4:45 – 6:30

### **AUK Mission Statement:**

The American University of Kuwait is a liberal arts institution dedicated to teaching, learning, and scholarship. The University offers programs that provide students with the knowledge and skills necessary for lifelong learning and professional success. AUK enriches society by fostering an environment that encourages critical thinking, effective communication, personal growth, service, and leadership.

### **Department/College Mission Statement:**

The Art and Graphic Design Department degree program offers a balance of theory and practice in the art and science of visual communication. The program cultivates cultural and aesthetic sensibilities while emphasizing critical thinking, analysis, and problem-solving through the teaching of design history, methodology, and technologies to produce designers capable of producing meaningful designs in a diverse global community.

**Catalog Course Description:**

This course will introduce principles and techniques used for creating three-dimensional content in virtual space. Students will learn principles of model creation, texture manipulation, scene rendering and animation to enable them to conceptualize and produce meaningful and artistic visualizations. The class will also explore the implications of the work produced as students engage in mutual critique.

**Course Learning Outcomes:**

By the end of this course students will:

- Obtain knowledge concerning the 3D world
- Recognize the difference between 2D and 3D
- Learn how to manipulate polygons
- Learn how to create 3D models
- Learn how to properly apply textures
- Learn how to control lighting and shadows in a scene
- Learn how to control a camera
- Render a scene
- Learn how to create 3D animations
- Obtain a high level of proficiency with the Cinema4D interface
- Successfully create an animated movie in a 3D environment

**Course Delivery/Methodology:**

For this course we will be meeting 2 times per week and material will be presented through [lectures/videos/readings done ahead of time]. All [course material/lecture slides/readings] will be posted on Moodle. All assignments must also be submitted through Moodle. You will be completing the following evaluations for this course: Three projects, a term exam, and a term paper. To successfully complete this course, you must [complete readings ahead of time, post regularly on the discussion forum, actively participate in class discussions, etc.] by the posted due dates and times.

**Required Textbook/Required Readings:**

There is no textbook for this course; and the professor will be posting material on Moodle for the students to download and use.

### Evaluations and Grading:

<b>Evaluation Type</b>	<b>Weight</b>
Participation	10%
5 Bi-Weekly Assignments (10% each)	50%
Midterm Project (Modeling)	20%
Final Project (Animation)	20%
<b>Total</b>	<b>100%</b>

### AUK Official Grading Scale:

<b>Letter Grade</b>	<b>Percentage</b>	<b>University Points</b>
A	94-100	4.0
A-	90-93	3.7
B+	87-89	3.3
B	84-86	3.0
B-	80-83	2.7
C+	77-79	2.3
C	74-76	2.0
C-	70-73	1.7
D+	67-69	1.3
D	64-66	1.0
D-	60-63	0.7
F	0-59	0.0

**AUK Attendance Policy:**

Any student who misses more than 15% of class sessions of any course during a semester should expect to fail, unless she/he submits documented evidence to the course instructor of inpatient medical care, death of an immediate family member, academic instructional activities, or national athletic activities. If excused, students are required to satisfy all coursework due or assigned during their absence as determined by the course instructor. If a student does not submit documented evidence for her/his absence exceeding the limit, it is the student's responsibility to withdraw from the course by the specified deadline, as indicated on the academic calendar. Students who withdraw from a course receive a grade of "W". Students who do not withdraw from a course nor submit supporting documents for excessive absences will receive a grade of "FN" (failure for non-attendance).

**Code of Academic Honesty and Integrity:**

Upon admission to the American University of Kuwait, students agree to act responsibly in all areas of academic, personal and social conduct and to take full responsibility for their individual and collective action. Such regulations are found in the American University of Kuwait Catalogue, Student Handbook, and the AUK website at [www.auk.edu.kw](http://www.auk.edu.kw). Any question of interpretation regarding the code of academic honesty and Integrity shall be reported to the appropriate academic dean. The Code shall be reviewed annually at the discretion of the academic deans. Any student or student organization found to have committed the cited violations or misconduct, either on or off campus, is subject to the disciplinary sanctions outlined in adjudication procedures.

**Plagiarism:**

The term "plagiarism" includes, but is not limited to, an attempt of an individual to claim the work of another as the product of his or her own thoughts regardless of whether that work has been published. Plagiarism includes, but is not limited to, quoting improperly or paraphrasing text or other written materials without proper citation on an exam, term paper, homework, or other written material submitted to an instructor as one's own work. Plagiarism also includes handing in a paper to an instructor that was purchased from a term paper service or downloaded from the Internet and presenting another person's academic work as one's own.

**Cheating:**

The term “cheating” includes but is not limited to, copying homework assignments from another student; working together with another individual on a take-home test or homework when not approved by the instructor, looking at and/or copying text, notes or another person’s paper during an examination when not permitted to do so. Cheating also includes the giving of work information to another student to be copied and/or used as his or her own. This includes but is not limited to giving someone answers to exam questions either when the exam is being given or after having taken an exam; informing another student of specific questions that appear or have appeared on an exam in the same academic semester; giving or selling a term paper, report, project or other restricted written materials to another student.

**Academic Support:**

Learning Support Services focuses on empowering students to become independent and successful learners by developing their literacy skills, enhancing their understanding, and helping them improve their academic and study skills. Learning Support Services is comprised of two centers: the Tutoring Center and the Writing Center. The Tutoring Center provides free academic support in various subjects to AUK student. Email: [tutoringcenter@auk.edu.kw](mailto:tutoringcenter@auk.edu.kw).

The Writing Center provides multilingual support (English, Arabic, French, and Spanish) through individual or small-group consultations. Email: [writingcenter@auk.edu.kw](mailto:writingcenter@auk.edu.kw)

**Disability Accommodations:**

Disability services include identifying strategies to accommodate the learning requirements of students with disabilities. The Counseling Center at AUK offers services that include personal counseling and disability services. Their mission is to support students as they overcome what inhibits their success and prepare them for lifelong learning and development. For questions regarding accommodation services, please contact the Counseling Center at [Counseling@auk.edu.kw](mailto:Counseling@auk.edu.kw).

**Course Policies/Student Responsibilities:** Students are expected to ask questions and participate in class discussions. When a project is launched, students are expected to make use of the correction session to show their work updates. During lectures, students are expected to take note since the handouts given throughout the semester, do not cover everything discussed in class.

**Late and Missing Work Policy:**

Students are graded on their work progress in each session.

Not showing the progress of their work will affect their final grade.

Late work will be marked as one grade less for every day that passes.

**Make-Up Work Policy:** Student with **documented evidence (AUK Attendance Policy)** will be allowed by a make up session during office hours and late submission.

**Communication Policy:**

Please be sure to use your official AUK email account, write your full name, and indicate which class and section you are taking (Class GDES330, section) when you send me an email. If you

have a question, please check the syllabus first and if your question is not answered there, then please feel free to send an email and I will be happy to clarify. I respond to questions via email or posted on the discussion forum within 24 hours of receiving them; if I do not respond within 24 hours, please re-send the email. Emails sent on weekends will be responded to on Sunday.

**Technology Issues:**

All assignments must be submitted through Moodle. However, you may experience trouble submitting an assignment due to technology or internet issues. If such a situation does arise and you are unable to submit your assignment through Moodle, please send me an email at [rkhair@auk.edu.kw](mailto:rkhair@auk.edu.kw) and include the completed assignment. Please make sure that you email me the assignment before the deadline as this documents that you did finish everything by the due date and time, but that you just had a technology issue. This will ensure that your assignment will be accepted, and you will not [receive a late penalty/get a 0, etc.]. Once the technology or internet issue is resolved, please upload the assignment to Moodle. In general, always be sure to frequently save your files and keep backups of your assignments.

**Course Schedule:**

Week	Topic	Assignments and Readings
1	<ul style="list-style-type: none"> <li>- Introduction to the course and to the 3D world</li> <li>- Introduction to the interface of Maxon Cinema4D</li> </ul>	
2	<ul style="list-style-type: none"> <li>- Introduction to Parametric Objects</li> <li>- Hierarchies in Cinema4D</li> </ul>	
3	<ul style="list-style-type: none"> <li>- Modeling with Parametric Objects</li> <li>- Deformers in Cinema4D</li> </ul>	
4	<ul style="list-style-type: none"> <li>- Generators in Cinema4D</li> </ul>	
5	<ul style="list-style-type: none"> <li>- Fields in Cinema4D</li> </ul>	
6	<ul style="list-style-type: none"> <li>- Organic Modeling</li> </ul>	
7	<ul style="list-style-type: none"> <li>- Organic Modeling</li> </ul>	
8	<ul style="list-style-type: none"> <li>- Organic Modeling</li> </ul>	<b>Midterm</b>
9	<ul style="list-style-type: none"> <li>- Materials and Shaders</li> </ul>	
10	<ul style="list-style-type: none"> <li>- Advanced Texturing</li> </ul>	
11	<ul style="list-style-type: none"> <li>- Lighting a Scene</li> </ul>	
12	<ul style="list-style-type: none"> <li>- Camera Settings and Animation</li> </ul>	
13	<ul style="list-style-type: none"> <li>- Rendering a Scene</li> </ul>	

14	- Advanced Animation Techniques	
15	- Advanced Animation Techniques	
16	- Advanced Animation Techniques	<b>Finals Week</b>

**Syllabus Changes:**

There may be changes to the schedule and syllabus during the semester. When this happens, I will inform you in class and over email.

Please note that instructors may not change the evaluation scheme (types or number of assignments) nor the grading weights (allocated weights per evaluation). This statement is to indicate potential changes in the course schedule or course policies.