

**ATTACHMENT 2 (g)**

**Course Report**

**Kingdom of Saudi Arabia**

**The National Commission for Academic Accreditation & Assessment**

**Course REPORT  
(CR)**

**Computer Graphics  
CIS414  
MR. Issa Alsmadi**

A separate Course Report (CR) should be submitted for every course and for each section or campus location where the course is taught, even if the course is taught by the same person. Each CR is to be completed by the course instructor at the end of each course and given to the program coordinator

A combined, comprehensive CR should be prepared by the course coordinator and the separate location reports are to be attached.



## Course Report

For guidance on the completion of this template refer to the NCAAA handbooks or the NCAAA Accreditation System help buttons.

Institution	Almajmaah University	Date of Course Report	23/3/1436
College/ Department College of Science / Department of Computer science and Information			

### A. Course Identification and General Information

1. Course title	<b>Computer Graphics</b>	Code #	<b>(CIS414)</b>	Section #	<b>112</b>	
2. Name of course instructor	<b>MR. Issa Alsmadi</b>	Location	<b>Az Zulf</b>			
3. Year and semester to which this report applies.	<b>First Semester – 2015/2014</b>					
4. Number of students starting the course?	<input type="text" value="19"/>	Students completing the course?	<input type="text" value="18"/>			
5. Course components (actual total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other:	Total
Contact Hours	30	30	-	-	-	60
Credit	30	15	-	-	-	45

### B. Course Delivery

1. Coverage of Planned Program			
Topics Covered	Planned Contact Hours	Actual Contact Hours	Reason for Variations if there is a difference of more than 25% of the hours planned
<b>1. A Survey of Computer Graphics Applications:</b> CAD/CAM, Art, Entertainment, Education, Training, Visualization, GUI, Image Processing.	<b>4</b>	<b>4</b>	--
<b>2. Overview of Computer Graphics &amp; Systems Graphics</b> :Primitives and Packages, The Graphical Pipeline, CRT, Raster-Scan and Random-Scan displays, Color CRT	<b>8</b>	<b>8</b>	--



Monitors, Flat-Panel Displays, Video Controller, Display Processor, CLUT ... etc.			
<b>3. Colors and Grayscales:</b> Beam-Penetration method Shadow-mask method.	<b>8</b>	<b>8</b>	--
<b>4. Output Primitives and Attributes:</b> Points, Lines, Circles, Ellipses. Examples - Open GL.	<b>8</b>	<b>8</b>	--
<b>5. 2D and 3D Modeling</b> Types of Modeling, Types of Geometric Models	<b>4</b>	<b>4</b>	--
<b>6. 2D Transformations and Viewing:</b> Translation, Scaling, Rotation, Shearing, reflection, Examples - Open GL.	<b>8</b>	<b>8</b>	
<b>7. 3D Transformation and Viewing:</b> 3D Representation, Translation, Scaling, Rotation, Examples - Open GL	<b>4</b>	<b>4</b>	
<b>8. 2D Viewing and 3D Viewing:</b> Windows and Viewports, Window-To-Viewport Coordinate Transformation, Point clipping, line clipping, Cohen-Sutherland Line Clipping, 3d Rendering Pipeline, Examples - Open GL.	<b>8</b>	<b>8</b>	
<b>9. projection :</b> Parallel and Perspective Projection, Orthographic Parallel Projection, Oblique Parallel Projection, Oblique Projection, Cavalier Projections, Cabinet Projections, Examples - Open GL.	<b>8</b>	<b>8</b>	

2. Consequences of Non Coverage of Topics

For any topics where the topic was not taught or practically delivered, comment on how significant you believe the lack of coverage is for the course learning outcomes or for later courses in the program. Suggest possible compensating action.

Topics (if any) not Fully Covered	Effectuated Learning Outcomes	Possible Compensating Action
No topics	--	--



### 3. Course learning outcome assessment.

	List course learning outcomes	List methods of assessment	Summary analysis of assessment results
1	Students will have an appreciation of the history and evolution of computer graphics, both hardware and software.	Written Exam Homework assignments Class Activities Quizzes	
2	Students will have an understanding of 2D graphics and algorithms including: line drawing, polygon filling, clipping, and transformations. They will be able to implement these concepts.	Homework assignments Class Activities Projects	
3	Students will understand the concepts and techniques used in 3D computer graphics, including viewing transformations, hierarchical modeling, color, lighting and texture mapping.	Homework assignments Class Activities Projects	
4	Students will have an appreciation of the history and evolution of computer graphics, both hardware and software.	Homework assignments Class Activities Projects	
5	Use matrix algebra in computer graphics application.	Lectures. Lab demonstrations. Case studies. Individual presentations. Brainstorming.	
6	Draw the basic primitives (e.g., point, line, polygons) using OpenGL.	Lectures. Lab demonstrations. Case studies. Brainstorming.	
7	Apply the 2D transformations and 3D transformations	Lectures. Lab demonstrations. Case studies. Individual presentations..	
8	Explain how simple line and polygon clipping algorithms work.	Lectures. Lab demonstrations. Individual presentations. Brainstorming.	
9	Adhere to professional, ethical, legal, security, and social issues and their responsibilities that related to information systems.	Written Exam Class Activities Quizzes	
10	Function effectively on teams to accomplish a common goal.	Class Activities Projects	
11	Communicate effectively with a range of audiences.	Class Activities Projects	



Summarize any actions you recommend for improving teaching strategies as a result of evaluations in table 3 above.

- Individual presentations
- Brainstorming
- Small group discussion
- Whole group

4. Effectiveness of Planned Teaching Strategies for Intended Learning Outcomes set out in the Course Specification. (Refer to planned teaching strategies in Course Specification and description of Domains of Learning Outcomes in the National Qualifications Framework)

List Teaching Methods set out in Course Specification	Were these Effective?		Difficulties Experienced (if any) in Using the Strategy and Suggested Action to Deal with Those Difficulties.
	No	Yes	
<ul style="list-style-type: none"> <li>• Lectures</li> <li>• Homework</li> <li>• Conversation</li> </ul>		√	
<ul style="list-style-type: none"> <li>• Conversation among students.</li> <li>• Indirect questions.</li> <li>• Work group for some cases.</li> </ul>		√	
<ul style="list-style-type: none"> <li>• Making groups and distributed tasks.</li> <li>• Presentation skills.</li> <li>• Skill constructive Monetary and dialogue and discussion with others</li> <li>• The ability to clearly express an opinion, and accept the opinions of others</li> </ul>		√	
<ul style="list-style-type: none"> <li>• E-mail</li> <li>• Web sit</li> </ul>		√	

**Note:** In order to analyze the assessment of student achievement for each course learning outcome, student performance results can be measured and assessed using a KPI, a rubric, or some grading system that aligns student work, exam scores, or other demonstration of successful learning.

### C. Results



1. Distribution of Grades

Letter Grade	Number of Students	Student Percentage	Explanation of Distribution of Grades
A	0	0%	
B	3	17%	
C	7	39%	
D	4	22%	
F	4	22%	
Denied Entry	0	0%	
In Progress	18	100%	
Incomplete	0	0%	
Pass	14	78%	
Fail	4	22%	
Withdrawn	1	%	

2. Analyze special factors (if any) affecting the results

3. Variations from planned student assessment processes (if any) (see Course Specifications).

a. Variations (if any) from planned assessment schedule (see Course Specification)

Variation	Reason
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b. Variations (if any) from planned assessment processes in Domains of Learning (see Course Specification)

Variation	Reason
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4. Student Grade Achievement Verification (eg. cross-check of grade validity by independent evaluator).	
Method(s) of Verification	Conclusion
Interview students, including answers and model answer sheet and learning resources for decision	Good results

#### D. Resources and Facilities

1. Difficulties in access to resources or facilities (if any)	2. Consequences of any difficulties experienced for student learning in the course.
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#### E. Administrative Issues

1. Organizational or administrative difficulties encountered (if any)	2. Consequences of any difficulties experienced for student learning in the course.
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#### F. Course Evaluation



1 Student evaluation of the course (Attach survey results report)
a. List the most important recommendations for improvement and strengths
b. Response of instructor or course team to this evaluation
2. Other Evaluation (e.g. by head of department, peer observations, accreditation review, other stakeholders)
a. List the most important recommendations for improvement and strengths
b. Response of instructor or course team to this evaluation

### G. Planning for Improvement

1. Progress on actions proposed for improving the course in previous course reports (if any).			
Actions recommended from the most recent course report(s)	Actions Taken	Results	Analysis
a. Insufficient background in computer science	- More examples are added - An extra exercises and solved problems are added.	Reasonable results	





b. Some students attend late	- Explain the importance of attending a full lecture - Give less important information at the beginning of each lecture	Reasonable results	
c.			
d.			

2. List what actions have been taken to improve the course (based on previous CR, surveys, independent opinion, or course evaluation).

- The use of multimedia to enrich the students' information.
- Enable students to prepare and make presentations.
- Increase related scientific activities.

3. Action Plan for Improvement for Next Semester/Year

Actions Recommended	Intended Action Points and Process	Start Date	Completion Date	Person Responsible
a. Bridge the gap between up-to-date information and reference text books	- Give students the formal and theoretical bases in computer graphics - Give students more implementation exercises that cover their understanding of the course.	2015	2016	Course coordinator



b. Overcome the problem of non-attendance of some students at the beginning of the lecture	- Explain the importance of attending a full lecture - Give less important information at the beginning of each lecture	2015	2016	Course coordinator
c.				
d.				
e.				

Name of Course Instructor: Mr .Issa Alsmadi

Signature: \_\_\_\_\_ Date Report Completed: 23/3/1436

Program Coordinator: \_\_\_\_\_

Signature: \_\_\_\_\_ Date Received: \_\_\_\_\_