







Computer Graphics ECE 411C




Benha University

Computer Systems Engineering
Electrical Engineering Department

Faculty of Engineering
(at Shoubra)

- Course Title:** Computer Graphics
- Course Code:** ECE 411C
- Instructor:** Dr. Islam ElShaarawy (<http://www.bu.edu.eg/staff/islam.elshaarawy>)
- Main Textbook:** Edward Angel and Dave Shreiner. *Interactive Computer Graphics: A Top-Down Approach with WebGL*. 7th Edition, Pearson Education, Inc., 2014, ISBN 978-0133574845.
http://www.cs.unm.edu/~angel/BOOK/INTERACTIVE_COMPUTER_GRAPHICS/
- Other Textbook(s):** Donald D. Hearn, M. Pauline Baker, and Warren Carithers. *Computer Graphics with Open GL*. 4th Edition, Pearson Education, Inc., 2010, ISBN 978-0136053583.
- Other References:** <https://www.khronos.org/webgl/> 
https://developer.mozilla.org/en-US/docs/Web/API/WebGL_API 
- Online Resources:** <http://webglstudio.org/> 
<http://www.webglacademy.com/> 
- Course Contents:**
1. Graphics Systems and Models
 2. Graphics Programming
 3. Interaction and Animation
 4. Geometric Objects and Transformations
 5. Viewing
 6. Lighting and Shading
 7. Discrete Techniques
 8. From Geometry to Pixels
 9. Modeling and Hierarchy
 10. Procedural Methods
 11. Curves and Surfaces
 12. Advanced Rendering

- Course Policy:**
1. Attendance is compulsory.
 2. Side talking, cellphones, laptops, food/drinks, and walking¹ are not allowed.
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3. Keeping track of whatever happens during the lectures is the student responsibility regardless of attendance.
 4. **Reading the relevant chapter(s) ahead of lectures is essential.**
 5. **Leaked solution manual as well as any other resources (unless otherwise specified) should never be used for solving the assignments.**

Grading System:

Attendance²:	00
Assignments:	10
Quizzes:	05
Midterm Exam:	10
Project:	25
Final Exam:	75

1 If you are late for the lecture, then you are allowed to walk into the lecture hall but quietly.

2 Attendance will be taken anyway.