

## Engineering Graphics (CE 101)

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**Instructor:** Dr. Radwan S. Al-Juruf

**Office #:** 16-136

**Office Phone:** 2559

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**Office Hours:** To be announced in class

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**Text:** Lab working book and text manual developed by the Civil Engineering Department.

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### Drawing Equipment:

1. 30/60 and a 45 triangles
2. Engineer's scale
3. Drawing pencils (HB, 2H, 4H)
4. Bow Compass (good quality)
5. Eraser (white)
6. Roll of drafting tape
7. Circle template
8. A3 drawing board for homework
9. French curve

### Course Objectives:

1. To develop student's perception and visualization abilities.
2. To be able to read and produce quality drawings.
3. To be able to dimension a drawing.

### Course Policy:

1. Attendance is required at all lectures and labs. 3 unexcused absences → DN
2. Absent student will lose classwork grade every time he is absent.
3. Late student will lose 0.5% of semester grade every time he is late.
4. Late homeworks are not accepted.
5. Exams will be announced in class.
6. Students must bring lab book text manual and drawing instruments to every class.

### Evaluation and Grading:

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|-----------------------|-----|
| 1. Midterm Exam ----- | 30% |
| 2. Final Exam -----   | 30% |
| 3. Class work -----   | 20% |
| 4. Homework -----     | 10% |
| 5. Project -----      | 10% |

# CE 101 – Engineering Graphics

## WEEKLY SCHEDULE

Periods	Subjects	HW
Week 1	- <b>Introduction to Engineering drawing</b> - <b>Drawing instruments</b>	
Week 2	<b>Sketching</b> - Introduction - Pictorial Sketching - Multiview Sketching -	S2 S3
Week 3	<b>Orthographic Projection</b> - Missing views - 3 view drawings	P3 P4
Week 4	<b>Dimensions</b> - Introduction - Size dimension - Location dimension -	P8 P16
Week 5	<b>Geometric Construction</b> - Tangencies	T6 T2, T4
Week 6	<b>Exam : 3 drawing questions</b> - Missing views - 3 view drawings - Geometric Construction	2 hours
Week 7	<b>Sections</b> - Full section - Offset section - 1/2 section	Sec. 2 Sec. 4
Week 8	<b>Sections</b> (continue) - Rib Section - Aligned Section -	Sec. 5 Sec. 8
Week 9	<b>Auxiliary Views</b> - Complete auxiliary views - Partial auxiliary views - Lateral side objects	A10 A11
Week 10	<b>Auxiliary Views</b> (continue) - Curved side objects	A6 A7
Week 11	<b>Surface Intersections</b> - Lateral side objects	IN3 IN4
Week 12	<b>Surface Intersections</b> (continue)	IN6 IN8
Week 13	<b>Working Drawing</b> (project)	<b>DISCUSSED IN CLASS</b>
Week 14	<b>Working Drawing</b> (continue)	<b>DISCUSSED IN CLASS</b>
Week 15	<b>Final Exam : 3 drawing questions</b> - Sectioning - Intersections - Auxiliary views	2 hours