



**MASTER SYLLABI  
Required Reading**

	<b>Topic(s) &amp; Class Activities</b>	
Week #5	<b>Mid-term</b> (Ch. 1-5) & Illumination Color, light sources & diffuse lighting	Lengyel: Ch. 6-6.3
Week #6	<b>Illumination</b> Specularity, texture mapping, emission, shading, bump mapping, reflection & Cook-Torrance illumination	Lengyel: Ch. 6.4-6.6
Week #7	<b>Determining Visibility</b> Constructing & testing bounding volumes; Spatial partitioning by trees; zones & portals	Lengyel: Ch. 7
Week #8	<b>Collisions, Curves &amp; Patches</b> Detecting collisions between objects & environment & between objects; B_zier curves, B-splines, continuity & surface patches	Lengyel: Ch 8
Week #9	<b>Polygonal Techniques</b> Depth-value offset, decals, bill boarding, stencils, shadowing & polygon reduction	Lengyel: Ch. 9
Week #10	<b>Test</b> (Ch. 6-9) & Linear Physics Position functions, projectile motion, resistance, terminal velocity & friction	Lengyel: Ch 10.1, 10.3-10.5
Week #11	<b>Rotational Physics</b> Angular velocity, centrifugal & Coriolis forces; Rigid bodies, angular momentum, torque & oscillatory motion	Lengyel: Ch. 11
Week #12	<b>Review &amp; Course Examination</b>	

**INSTRUCTIONAL METHODS:** Class sessions will consist of instructor lectures, demonstrations, hands-on exercises, and drawing projects. Students will be assigned reading from required texts and instructor provided hand-outs.

**EVALUATION METHODS:**

All required assignments must be completed to obtain a passing grade in the course. All assignments are due on the date specified. Students must also have a satisfactory attendance record & grades may be modified for classroom participation.

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Students' grades will be based on the distribution of weights indicated below. The final grade for the course is based on the following percentages:

<b>Source</b>	<b>Weight</b>	<b>Score</b>	<b>Grade</b>
Exercises:	20.0%	100-90%	A
Test 1	20.0	89-80%	B
Test 2	20.0	79-70%	C
Course Examination	<u>40.0</u>	69-60%	D
		59% and lower	N/C
Total	<u>100.0%</u>		