CS 434 Advanced Graphics and Gaming

M Jan 7	Торіс	Course organization and preview	Aliaga + Popescu
W Jan 9	Advanced Rendering	Depth image approximation of geometry Ray / depth image intersection	Popescu
M Jan 14		Rendering specular reflections A1 out: Fragment shader to intersect depth image with ray, applied to reflections and to rendering surface detail	Popescu
W Jan 16		Rendering geometric surface detail	Popescu
M Jan 21		MLK Day	
W Jan 23	Global Illumination	Light transport	Aliaga
M Jan 28			Aliaga
W Jan 30		Radiosity	Aliaga
M Feb 4		A1 due A2 out: Light transport Soft shadows	Popescu
W Feb 6		Ambient occlusion	Popescu
M Feb 11	Modeling	Panoramic imaging: acquisition, registration, construction, rendering	Popescu
W Feb 13		Higher order curves and surfaces	Popescu
M Feb 18 W Feb 20		3-D acquisition: triangulation, stereo, structured light	Aliaga Aliaga
M Feb 25		A2 due A3 out: Depth from stereo Procedural and inverse procedural modeling	Aliaga
W Feb 27		Procedural and inverse procedural modeling	Aliaga
M Mar 4		Review for midterm	Aliaga + Popescu
W Mar 6		Midterm review	Aliaga + Popescu
M Mar 11		Spring Break	
W Mar 13		Spring Break	
M Mar 18		A3 due Project proposal out Project topic brainstorming	Popescu
W Mar 20		Project proposal due	Aliaga + Popescu
M Mar 25	Animation	Forward and inverse kinematics	Popescu
W Mar 27		Motion capture, field trip	Popescu
M Apr 1		Constant time collision detection	Aliaga
W Apr 3		Mid-way project presentation due	Aliaga + Popescu
M Apr 8	Animation	Fluid simulation	Bedrich

W Apr 10	Particle system simulation	Tricoche
M Apr 15	Gesture-based interfaces	Wachs
W Apr 17	Robots and vision	Culurciello
M Apr 22	Project presentation practice due	Aliaga
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W Apr 24	Project presentation due	Popescu