Tuesday, 6 January 2004

Lecture $#1$:	Tuesday, 6 January 2004
Topics:	Course Outline
Lecturer:	Leonidas Guibas

Course Outline

January

Tue	6	Homogeneous Coordinates; The Projective Plane
Thu	8	Quaternions
Tue	13	Oriented Projective Geometry Homework 1 out
Thu	15	Affine and Projective Transformations, Plücker coordinates
Tue	20	Shape Modeling: Parametric and Implicit
Thu	22	Classification of Parametric Cubics
Tue	27	Polar Forms Homework 1 due; Homework 2 out
Thu	29	Continuity Constraints; Splines

February

Tue	3	B-splines
Thu	5	Rational Curves
Tue	10	Tensor-Product and Total-Degree Surfaces II Homework 2 due; Homework 3 out
Thu	12	Tensor-Product and Total-Degree Surfaces II
Tue	17	Subdivision Surfaces I Homework 3 due; Project (Homework 4) out
Thu	19	Subdivision Surfaces II

Tue	24	In class midterm
Thu	26	Triangle Meshes and Their Representation

March

Tue	2	Mesh Simplification
Thu	4	Scattered Data Interpolation
Tue	9	Solid Models; BSPs and Their Uses Project due
Thu	11	Class Summary and Evaluation