Schedule — Version 1

Wk	Dates	Topic A	Topic B	Topic C		Assignments	
1	28/09-02/10	Meshes & the Euler Formula	Mesh Data Structures	Mesh Data Structures			A1
2	05/10-09/10	Mesh Operations	Differential Geometry of Curves				
3	12/10-16/10	Modelling with Curves	Differential Geometry of Surfaces				
4	19/10-23/10	Higher Order Surfaces	Surface Anisotropy			A1	A2
5	26/10-30/10	READING WEEK / VIS CONFERENCE					
6	02/11-06/11	Surface Curvature	Laplace Operators				
7	09/11-13/11	Discrete Laplace-Beltrami Operators	Simplification & Smoothing			A2	A3
8	16/11-20/11	Texture Parameterisation	Deformation & Morphing				
9	23/11-27/11	Eurographics Meeting	The Mesh Processing Pipeline				A4
10	30/11-03/12	Volumetric Modelling & Isosurfaces	Distance Fields & Mesh Repair			A3	
11	06/12-10/12	Voronoi, Delaunay & Medial Axes	Mesh Quality				
12	13/12-17/12						
	04/01-11/01						
13	11/01-15/01						
14	18/01-22/01					A4	

Legend:
- Mesh Representations & Operations
- Differential Geometry
- Simplification & Smoothing
- Mesh Parameterisation
- Mesh Quality & Repair
- No Lecture

Schedule — Version 1 (detail)

Wk	Date	Topic	Reading
1	28/09/2020	Meshes & the Euler Formula	Botsch 1
	01/10/2020	Mesh Data Structures	Botsch 2
2	05/10/2020	Mesh Operations	Botsch 2, 7.2.1
	08/10/2020	Differential Geometry of Curves	Botsch 3.1, do Carmo 1, Kreyszig 2
3	12/10/2020	Modelling with Curves	Farin 1-9, 13, Hughes 22
	15/10/2020	Differential Geometry of Surfaces	Botsch 3.2.1-3.2.2, do Carmo 2.1-2.4, Kreyszig 3.24-3.26
4	19/10/2020	Higher Order Surfaces	Farin 14-22, Hughes 23
	22/10/2020	Surface Anisotropy	Botsch 3.2.2, do Carmo 2.5, Kreyszig 3.27-3.28
5	26/10/2020	READING WEEK / VIS CONFERENCE	
	29/10/2020	READING WEEK / VIS CONFERENCE	
6	02/11/2020	Surface Curvature	Botsch 3.2.3, do Carmo 3.1-3.3, Kreyszig 4.38-4.42
	05/11/2020	Laplace Operators	Botsch 3.2.3
7	09/11/2020	Discrete Laplace-Beltrami Operators	Botsch 3.3
	12/11/2020	Simplification & Smoothing	Botsch 4, 7
8	16/11/2020	Texture Parameterisation	Botsch 5
	19/11/2020	Deformation & Morphing	Botsch 9
9	23/11/2020	Eurographics Meeting	
	26/11/2020	The Mesh Processing Pipeline	Botsch 8
10	30/11/2020	Volumetric Modelling & Isosurfaces	Botsch 1.4, Hughes 24.3, Wenger
	03/12/2020	Distance Fields & Mesh Repair	Botsch 8.5
11	07/12/2020	Voronoi, Delaunay & Medial Axes	Botsch 6.4, de Berg 7, 9
	10/12/2020	Mesh Quality	Botsch 6

Schedule — Version 2

Wk	Dates	Topic A	Topic B	Topic C		Assignments	
1	28/09-02/10	Meshes & the Euler Formula	Mesh Data Structures	Mesh Data Structures			A1
2	05/10-09/10	Mesh Operations	Differential Geometry of Curves				
3	12/10-16/10	Modelling with Curves	Differential Geometry of Surfaces				
4	19/10-23/10	Higher Order Surfaces	Surface Anisotropy			A1	A2
5	26/10-30/10	READING WEEK / VIS CONFERENCE					
6	02/11-06/11	Surface Curvature	Laplace Operators				
7	09/11-13/11	Discrete Laplace-Beltrami Operators	Discrete Laplace-Beltrami Operators				
8	16/11-20/11	Simplification & Smoothing	The Mesh Processing Pipeline				A3
9	23/11-27/11	Distance Fields & Mesh Repair	Volumetric Modelling & Isosurfaces	Voronoi, Delaunay & Medial Axes		A2	
10	30/11-03/12	Texture Parameterisation	Deformation & Morphing	Mesh Quality			
11	06/12-10/12					A3	A4
12	13/12-17/12						
	04/01-11/01						
13	11/01-15/01						
14	18/01-22/01					A4	

Legend:
- Mesh Representations & Operations
- Differential Geometry
- Simplification & Smoothing
- Mesh Parameterisation
- Mesh Quality & Repair
- No Lecture

Schedule — Version 2 (detail)

Wk	Date	Topic	Reading
1	28/09/2020	Meshes & the Euler Formula	Botsch 1
	01/10/2020	Mesh Data Structures	Botsch 2
2	05/10/2020	Mesh Operations	Botsch 2, 7.2.1
	08/10/2020	Differential Geometry of Curves	Botsch 3.1, do Carmo 1, Kreyszig 2
3	12/10/2020	Modelling with Curves	Farin 1-9, 13, Hughes 22
	15/10/2020	Differential Geometry of Surfaces	Botsch 3.2.1-3.2.2, do Carmo 2.1-2.4, Kreyszig 3.24-3.26
4	19/10/2020	Higher Order Surfaces	Farin 14-22, Hughes 23
	22/10/2020	Surface Anisotropy	Botsch 3.2.2, do Carmo 2.5, Kreyszig 3.27-3.28
5	26/10/2020	READING WEEK / VIS CONFERENCE	
	29/10/2020	READING WEEK / VIS CONFERENCE	
6	02/11/2020	Surface Curvature	Botsch 3.2.3, do Carmo 3.1-3.3, Kreyszig 4.38-4.42
	05/11/2020	Laplace Operators	Botsch 3.2.3
7	09/11/2020	Discrete Laplace-Beltrami Operators	Botsch 3.3
	12/11/2020	Discrete Laplace-Beltrami Operators	Botsch 3.3
8	16/11/2020	Simplification & Smoothing	Botsch 4, 7
	19/11/2020	Texture Parameterisation	Botsch 5
	20/11/2020	Deformation & Morphing	Botsch 9
9	23/11/2020	The Mesh Processing Pipeline	Botsch 8
	26/11/2020	Volumetric Modelling & Isosurfaces	Botsch 1.4, Hughes 24.3, Wenger
10	30/11/2020	Distance Fields & Mesh Repair	Botsch 8.5
	03/12/2020	Voronoi, Delaunay & Medial Axes	Botsch 6.4, de Berg 7, 9
	04/12/2020	Mesh Quality	Botsch 6