

Com S 477/577 Schedules (Fall 2020)

Weekly Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
10:00-11:00					
11:00-12:00		Office Hour (Yan-Bin)			
1:00-2:00			Office Hour (Yan-Bin)		Office Hour (Yuechuan)
2:10-3:00		Lecture		Lecture	Office Hour (2:00-3:00) (Yuechuan)
4:00-5:00					

Course Schedule (tentative)

Date	Topics
Aug 18	Homogeneous Coordinates
Aug 20	Plücker Coordinates
Aug 25	Homogeneous Transformations
Aug 27	Perspective Projection
Sep 1	Rotations in the Space
Sep 3	Quaternions
Sep 8	Solution of Linear Equations
Sep 10	Singular Value Decomposition
Sep 15	Solution of Nonlinear Equations
Sep 17	Polynomial Evaluation & Multiplication, FFT
Sep 22	Roots of Polynomials
Sep 24	Roots of a Polynomial System
Sep 29	Parametric Curves and Curvature
Oct 1	Closed Curves and Space Curves
Oct 6	Midterm Exam
Oct 8	Arbitrary-Speed Curves
Oct 13	Surfaces
Oct 15	Surface Curves & Fundamental Forms
Oct 20	Principal Curvatures
Oct 22	Gaussian and Mean Curvatures

Oct 27	Geodesics
Oct 29	Nonlinear Optimization
Nov 3	Lagrange Multipliers
Nov 5	Linear Programming
Nov 10	The Simplex Method
Nov 12	Data Fitting
Nov 17	Calculus of Variations
Nov 19	Variational Problems
TBA	Final Exam