

WELCOME TO CS 451 — COMPUTATIONAL GEOMETRY

When and where: T,Th 3:00-4:20 in Computer Science Bldg, 302

Your instructor: Bernard Chazelle, userid= chazelle, 404, x5380

Grading: Based on homework assignments, final project, and class participation

Textbook (strongly recommended): *Computational Geometry, Algorithms and Applications*, de Berg, M., van Kreveld, M., Overmars, M., Schwarzkopf, O., Springer-Verlag, 1997. A good, but more elementary and narrowly-focused, text is “*Computational Geometry in C*”, Cambridge Univ. Press, 2nd ed., 2001, by J. O’Rourke. Two other good books, less comprehensive but more advanced, are “*Algorithms in Combinatorial Geometry*”, H. Edelsbrunner, Springer-Verlag, 1987, and “*Multidimensional Searching and Computational Geometry*”, by K. Mehlhorn, Springer-Verlag, 1984. The classic, “*Computational Geometry: An Introduction*”, by F.P. Preparata and M.I. Shamos, Springer-Verlag, 1985, is still good but is showing signs of age.