

MAT 545 COMPLEX GEOMETRY FALL 2016

INSTRUCTOR: Mark Andrea de Cataldo

TIME AND PLACE: Tu&Th 10-11:20, Physics P123

**TEXTBOOK: Complex Geometry, by D. Huybrechts,
Springer Universitext**

SYLLABUS: Local theory, complex manifolds, Kahler manifolds, vector bundles, applications of cohomology, deformation of complex structures. We will try to cover a large subset of the content of the book. Each student will present to the class solutions to some of the exercises in the textbook. The grade is based on in-class participation and on the above in-class presentations.

OFFICE HOURS: Tu&Th 11:30-1 (MAT 5-108)