

## ISyE 7661 **Theory of Linear Inequalities**

### Topics:

Representation of polyhedra

Duality

Blocking and anti-blocking polyhedra

Simplex and ellipsoid algorithms

Diophantine equations

Integral polyhedra

Hilbert bases

Total dual integrality

### Text at the level of:

Schrijver, A., *Theory of Linear and Integer Programming*, Wiley, Chichester, 1986.