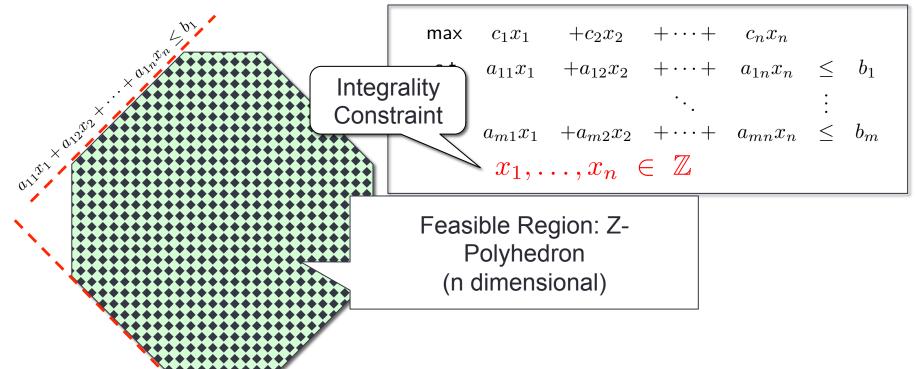
## INTEGER LINEAR PROGRAMMING - INTRODUCTION

## Integer Linear Programming



## Integer Linear Programming

- Relaxation to a (real-valued) Linear Program
  - How does the LP relaxation answer relate to the ILP answer?
  - Integrality Gap
- Complexity of Integer Linear Programs
  - NP-Completeness
  - Some special cases of ILPs.
- Algorithms:
  - Branch-And-Bound
  - Gomory-Chvatal Cuts