

# What are the obstacles to offering CS courses?



- **Qualified teachers**
  - Certify retired engineers
  - Audit college courses (non-teaching periods); take online courses
- **Resources: computers, funding**
  - Corporations upgrade computers periodically—donations are not uncommon
  - Students can bring laptops; work in groups
  - Alternative hardware could be TI calculators
- **Administration support (low enrollment, dumping ground)**
  - Offer the course every 2 years
  - A more challenging course could be less likely to become the dumping ground
- **Full schedule**
- **Dumping ground**
- **Other electives**
- **Student interest**
- **Low enrollment**
- **Mapping—plan before writing programs**
- **Students Lack logical skills**
- **Preparation at an earlier age**
- **Parent understanding**
- **Age gap (teachers vs. students)—programming phones**
- **School district lacks understanding of CS**
- **College Board curriculum not fun**
- **College Board workshop—lack of interesting projects**