

# ECON 6787: Introduction to CRD

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## 1 Fall 2025

### 1.1 Introduction

1. In a completely randomized design, abbreviated as CRD, with one treatment factor,  $n$  experimental units are divided randomly into  $t$  treatments.
2. if  $n = tr$  is a multiple of  $t$ , then each level of the factor will be applied to  $r$  unique experimental unites
  - (a) there will be  $r$  rreplicates of each run with the same level of the treatment factor.
  - (b) if  $n$  is not a multiple of  $t$ , then therre will be an unequal number of rreplicates of each factor level.
3. All other known independent variables are help constant so that the will not bias as the effects.
4. This design shuold be used when there is only one factor under study and the experimental unites are homege-nous.