## ECE335 Summer 2019 - Lecture 11 Examples

Thusa X&B.

**Example 1:** Suppose  $A \subseteq C$  and B and C are disjoint. Prove that if  $x \in A$ , then  $x \notin B$ . Hint: Use proof by contradiction.

G.ver ACC KEA -> K & B B+C disjoint Contiton! am ASC x & B B+cdisjoint Cartradic trus ACC B+c dsjoint XEA XEB Assure XEB & B+ Core disjoint (BAC=0) => X & C Since ASC (VX(XEA -> XEC) for contripositive VX(X4C -> XQA) gives X&A. But this conducted the sime that XEA