

# Logic Lecture 1

## Valid inference

Suppose  $\frac{A_1 \dots A_n}{c}$  is valid

then

## Modus tollens

[ if A, then B  
A  
-----  
then B

if A, then B  
 $\neg B$   
-----  
so  $\neg A$

there are infinitely many patterns of inferences.

## Update and Consequences