

# Logic Terms

## PROPOSITION

1. declarative statement
2. can be true or false
3. complete thought
4. no negative elements

## CONJUNCTION

1. string of propositions joined by *and*
2. each one is true

## DISJUNCTION

1. string of propositions joined by *or*
2. one is true

## IMPLICATION

1. two proposition joined by *if and then*
2. when first is true, second must also be true

## NEGATION

falsifying a proposition using a tilde ( $\sim$ )

## EQUIVALENCE

two expressions mean the same and are interchangeable

## PREMISE

statement used to draw a conclusion

## CONCLUSION

logical result of premises

## ARGUMENT

conclusion logically related to premise(s)