

■ **Table 12.1:** Examples of Inferences Rules and Fallacies

Argument Name	Modus Ponens (valid)	Modus Tollens (valid)	Denying the Antecedent (fallacy)	Affirming the Consequent (fallacy)
First premise	$p \rightarrow q$	$p \rightarrow q$	$p \rightarrow q$	$p \rightarrow q$
Second premise	$p$	$\neg q$	$\neg p$	$q$
Conclusion	$q$	$\neg p$	$\neg q$	$p$