

## **Epistemic Closure Principles**

Philosophy 450, Advanced Epistemology and Metaphysics

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### KNOWLEDGE IS CLOSED UNDER ENTAILMENT (SP)

If person S knows that  $p$ , and  $p$  entails  $q$ , then S knows that  $q$ .

### KNOWLEDGE IS CLOSED UNDER KNOWN ENTAILMENT

If S knows that  $p$ , and S knows that  $p$  entails  $q$ , then S knows that  $q$ .

### (K)

If, while knowing that  $p$ , S believes that  $q$  because S knows that  $p$  entails  $q$ , then S knows that  $q$ .

### SINGLE-PREMISE CLOSURE (SPC)

Necessarily, if S knows that  $p$ , competently deduces  $q$  (from  $p$ ), and thereby comes to believe that  $q$ , while retaining knowledge of  $p$  throughout, then S knows that  $q$ .

### (GK)

If, while knowing various propositions, S believes that  $p$  because S knows that they entail  $p$ , then S knows that  $p$ .

### MULTI-PREMISE CLOSURE (MPC)

Necessarily, if S knows that  $p_1, \dots, p_n$ , competently deduces  $q$  (from  $p_1, \dots, p_n$ ), and thereby comes to believe that  $q$ , while retaining knowledge of  $p_1, \dots, p_n$  throughout, then S knows that  $q$ .

### EVIDENCE IS CLOSED UNDER ENTAILMENT (E)

If  $E$  is evidence for  $p$ , and  $p$  entails  $q$ , then  $E$  is evidence for  $q$ .

### JUSTIFIED BELIEF IS CLOSED UNDER KNOWN ENTAILMENT

If S justifiably believes that  $p$  and S knows that  $p$  entails  $q$ , then S is justified in believing that  $q$ .

### (GJ)

If, while justifiably believing various propositions, S believes that  $p$  because S knows that they entail  $p$ , then S justifiably believes that  $p$ .