

A. Everyone who is enrolled in csc480 is a graduate student.

$\text{Ax enrolled}(x, \text{CSC480}) \Rightarrow \text{grad_student}(x)$

B. All graduate students are students.

$\text{Ax grad_student}(x) \Rightarrow \text{student}(x)$

C. All students are enrolled in (at least) one course.

$\text{Ax} (\text{student}(x) \Rightarrow \text{Ey course}(y) \ \& \ \text{enrolled}(x, y))$

D. Some courses are taken only by graduate students.

$\text{ExAy} (\text{student}(y) \ \& \ \text{course}(x) \ \& \ \text{enrolled}(y, x) \Rightarrow \text{grad_student}(y))$

E. A graduate student does not have a master's degree.

$\text{Ax grad_student}(x) \Rightarrow \sim \text{degree}(x, \text{Master's})$