CSC 480 Spring 2018 Homework 3

This homework assignment is worth 5 points.

Translate each of the statements A-E into first order predicate calculus statements. There is no need to perform Skolemization or convert to clause form. Please limit yourself to the following predicates:

Predicate	# arguments	Example	Meaning
enrolled	2	enrolled(a,b)	a is enrolled in b
student	1	student(c)	c is a student
grad-student	1	grad-student(d)	d is a grad student
course	1	course(e)	e is a course
degree	2	degree(f,g)	f has degree g

A. Everyone who is enrolled in csc480 is a graduate student.
B. All graduate students are students.
C. All students are enrolled in (at least) one course.
D. Some courses are taken only by graduate students.
E. A graduate student does not have a master's degree.