Assignment 7:

You are to create a system for advising CS undergraduates on what courses to take over an extended period in order to satisfy the program requirements. (Use the requirements for the UML CS program you are in. Use the Course #s, and not the Course Names for the sake of brevity) First, decide on a vocabulary for representing all the information, and then represent it; then formulate a query to the system that will return a legal program of study as a solution. You should allow for some tailoring to individual students, in that your system should ask what courses or equivalents the student has already taken, and not generate programs that repeat those courses. Suggest ways in which your system could be improved—for example, to take into account some type of knowledge about the student. For each kind of knowledge, explain how it could be expressed logically. Could your system easily incorporate this information to find all feasible programs of study for a student? Could it find the *best* program?

150 rubric pts

You can write this “system” using Python code (for 15 pts extra credit, for working code), or pseudo-code (no extra credit).

If you use pseudo-code, your answer should be understandable and no more than 4 pages.

If you use Python (or another language), you still need to answer the inquiries and questions at the end of the assignment.