## Comp150/170 - Grade Point Average

Points: 25

Write a C++ program which calculates grade point average according to the method described below. Your program should validate input data when possible. i.e. You should not accept invalid data such as a grade of E or credit hours greater than 6. You should add appropriate user-friendly error messages for invalid data. Make certain that the program is not case-sensitive, regarding the input data. Your program dialogue should look like this: (Follow the sample as closely as possible, not counting the asterisks!)

\* Number of courses? 3 For course 1: Grade? A Hours? 4 For course 2: Grade? C Hours? 2 For course 3: Grade? B Hours? 3 GPA is 3.22 \* GPA is given by TOTAL QUALITY POINT / TOTAL CREDIT HOURS where QUALITY POINTS are given by GRADE MULTIPLIER \* COURSE CREDIT HOURS where the GRADE MULTIPLIERS are 4 for A, 3 for B, 2 for C, 1 for D, 0 for F \*

Turn in GPA.CPP via Easel. Also turn in the flowchart and a printed listing of your program in class.