

```
1 //Grant dawson COSC 220 Project 1
2 #ifndef STUDENTDB_H
3 #define STUDENTDB_H
4
5 #include <iostream>
6 #include "Course.h"
7 #include "CourseDB.h"
8 #include "Student.h"
9 #include <fstream>
10 #include <string>
11
12 using namespace std;
13
14 class StudentDB{
15 private:
16     struct studentNode{
17         Student s;
18         CourseDB c;
19         studentNode* next;
20     };
21
22     studentNode* head;
23
24     void addMajorToList(string);
25     void readMajorList();
26     string* major=new string[1];
27     int Mlength;
28     string* department=new string[1];
29     int Dlength;
30     char* grade=new char[6];
31     int Glength;
32
33
34 public:
35     StudentDB();
36     StudentDB(Student);
37
38     ~StudentDB();
39     StudentDB(const StudentDB&);
40     StudentDB* operator=(const StudentDB&);
41
42     void updateStudent(Student, Student);
43     //void updateStudent(string,string,string);
44
45     void removeStudent(Student);
46     void removeStudent(string,string,string);
47
48     void addStudent(Student);
49     void addStudent(string,string,string);
50
51     void printStudent(Student);
52     void printAllList();
53     void printAllStudents();
54
55
56     void updateCourse(Student,Course);
57     void removeCourse(Student, Course);
58     void addCourse(Student, Course);
59
60     int length();
61
62     Student createStudentMajor(string,string);
```

```
63 Student createStudent();
64
65 Course createCourse();
66
67 void readDepartmentList();
68 void addDepartmentToList(string);
69 string createCourseDepartment();
70 char createCourseGrades();
71 void readGradeList();
72
73 Student chooseStudent();
74 Course chooseCourse(Student);
75
76
77
78 };
79
80
81 #endif
82
```