**Structured English Program Design**

**1. Student Info Query Subsystem**

Student 900# is inputted

If Student exists then query student information and display it

Else set up as new student

1) Input additional information like Name and Major

2) Save Student information in database

3) Display student information

**2. Class History Query Subsystem**

Use student information (900#) to query class history

1) If it exists, display the class history

2) If it does not exist allow Advisor to input it if student has a class history

Query the required class list for the student’s selected major and display it

**3. Class Comparison Subsystem**

Compare the class history list to the required class list for the major

1) If a class appears in both lists then exclude it

2) Display list of remaining classes (untaken required classes)

**4. Class Prerequisite System**

Query pre-requisites for untaken required classes

Display pre-requisites for untaken required classes

**5. Eligible Classes Subsystem**

Compare pre-requisites for the untaken required classes to class history and student credit level

1) If the student does not meet minimum credit level then exclude that class

2) If the student has not taken a pre-requisite class then exclude that class

Display the remaining classes in the list for which the student meets the pre-requisites

**6. Class Saving Subsystem**

If semester credit level is less than 18 credit hours then allow advisor to select classes from eligible list

Else do not allow class selection

Save class selection to class history with the semester name (spring 2014 etc)

Re-run subsystems 2-5 to update eligible class list

Re-execute Class Saving subsystem until student meets all major requirements

Display full selected class list organized by semester and year