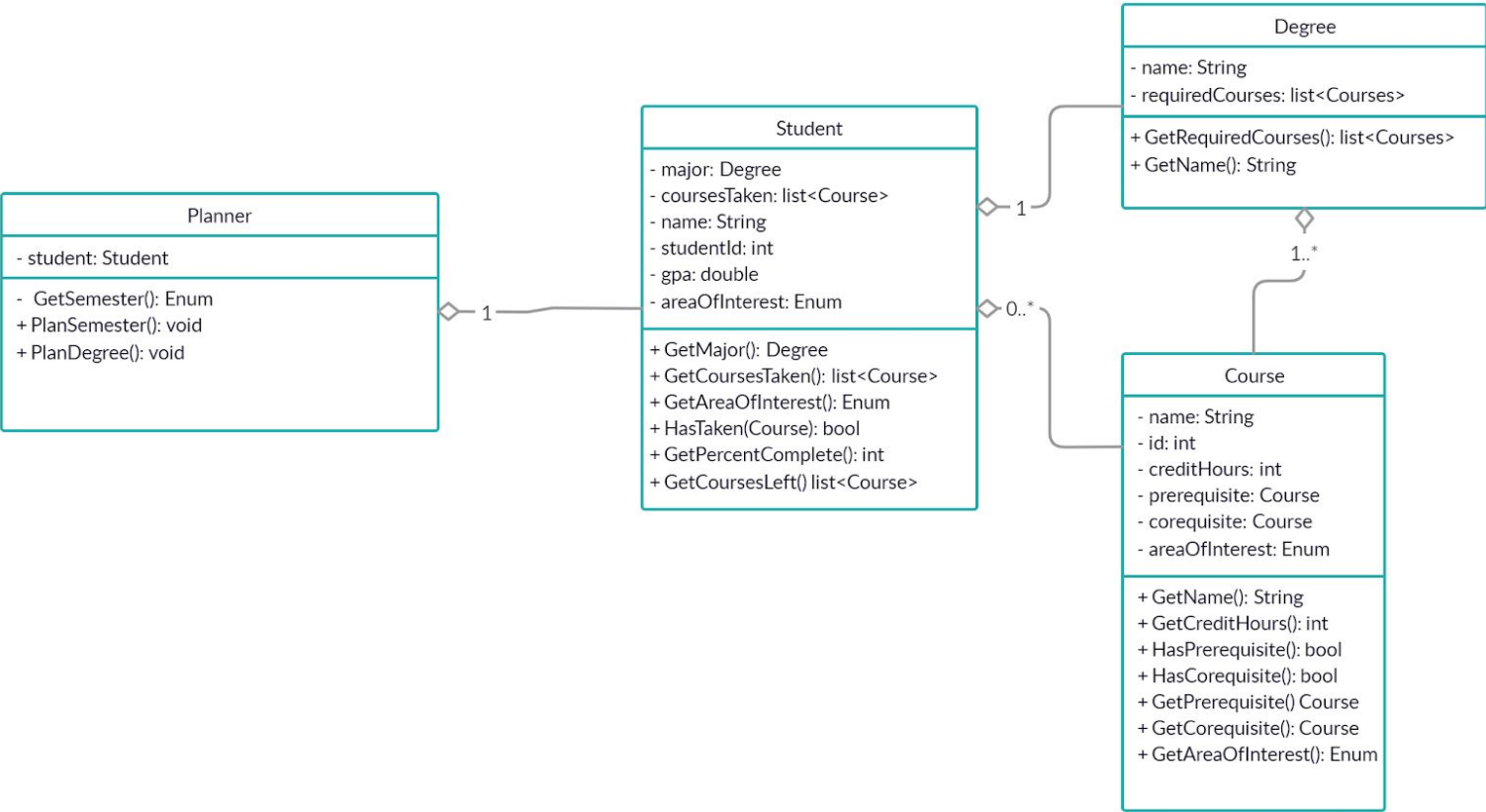KnightsPath Class Diagram:

The central class is the **Planner**, which has a student as a member. The planner uses the information from the student class to plan out the current courses the student should take for the semester, or for the rest of their degree.

The **Student** class contains member data of all the information related to that student such as their degree, courses taken, name, and areas of interest. The student class is mostly just a holder of information about the student, with basic getters and setters for that information.

The **Degree** class holds a list of required courses and a name, along with getter functions for those members. This class serves the purpose of a data structure to store information about a specific degree.

The **Course** class holds all the information about a given course, including name, id, credit hours, prerequisite/corequisite, and area of interest. This class also serves the purpose of a data structure with getters for the information.

Planner - as relates to user story 006, the user should get course recommendations based on their input.

Student - as relates to user story 010, the user should be able to store their information.

Degree - as relates to user story 016, there should be information about a given degree available.

Course - As relates to user story 014, there should be information about a given course available.