Program Flow

The first thing you will want to do when your application starts is load all of the data in from the text files. I would suggest the following order:

1. Course
2. Student
3. All the grades (the order doesn’t really matter)

Try to relate the different pieces together. A grade, or grade averages, is given to a student. A course has students in it. So your UML’s will piece together all of the pieces and will probably look a lot like the following:

**Course**

averages

Student

To make your life easier, you might want to not create a class/object for each and every grade (Quiz, Exam, FinalExam, etc…) and just compute the average and assign that value to the student object. This reduces the amount of classes you need to create. So once you split the line on the : or whatever you need to, you will have all the grades for that category (quiz/exam/etc…) so you can just loop through the grades and figure out the average off of that.