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| **Course** | |
| -  -  -  -  -  -  -  -  -  -  -  -  -  - | courseNumber : String  instructor : String  students : HashMap<Integer,Student>  homeworkAverage : double  quizAverage : double  participationAverage : double  examAverage : double  finalExamAverage : double  finalGradeAverage : double  //The below variables are for the percents/weights for each grade area of the course  homeworkPercent : double  quizPercent : double  participationPercent : double  examPercent : double  finalExamPercent : double |
| +  +  +  +  +  -  -  -  - | Course()  Course(String, String)  printCourseAverages() : void  printStudentAveragesForStudent(Student) : void  printStudentAveragesInDescendingOrder() : void  updateCourseAverages() : void // Updates all the averages for a the course  calculateFinalGrade(Student) : double // Calculates the final grade for a particular Student  calculateLetterGrade(double) : String // Takes an average and returns the letter grade associated with it  addAndUpdateStudent() : void // Adds a student to the hashmap and/or updates it if it exists |

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| **Student** | |
| -  -  -  -  -  -  -  - | firstName : String  lastName : String  studentId : int  examGradeAverage : Double  finalExamGradeAverage : Double  homeworkGradeAverage : Double  participationGradeAverage : Double  quizGradeAverage : Double |
| +  +  +  +  -  + | Student()  Student(int)  Student(String, String, int)  setAverage(String, String) : void //Sets an avg w/ the name of the section & a string of grades with , & % still in it  calculateAverage(String) : Double //Calculates an avg from the string with ,’s and %’s and returns the average  description() : String //Creates a String that describes this instance of the Student (fName,lName,id) |