

Assignment
-name
-grade
+Assignment(grade, name)
+getName() : string
+getGrade() : int
+setName(name)
+setGrade(grade)
+toString() : String

Student
-gpa
-creditsNeeded
-name
-id
-creditsEarned
+Student(name, id, creditsNeeded)
+getGpa() : int
+getCreditsNeeded() : int
+getName() : string
+getId() : int
+getCreditsEarned() : int
+calculateGpa()
+calculateCreditsEarned(in earned)
+setName(in name)
+setId(in id)
+setCreditsNeeded(in needed)
+addCourse()
+toString() : String

Catagory
-weight
-name
-average
-assignments
+Catagory(name, weight)
+getAverage() : double
+getWeight() : double
+getName() : String
+calculateAverage()
+setWeight()
+setName()
+addAssignment()
+toString() : String

Calculator
+Calculator()
+average(list) : double
+grade(list) : double
+gpa(list) : double
+creditsEarned(list) : int
-gpaPoints(course) : double

Course
-name
-prefix
-courseCode
-credits
-grade
-gradeType
-startDate
-endDate
-isFinished
-catagories
+Course(name, prefix, code, start, end, grade, gradeType, credits)
+getName() : string
+getCourseCode() : int
+getPrefix() : string
+getTitle() : string
+getCredits() : int
+getGrade() : double
-getGradeType() : int
+getStart() : Calander
+getEnd() : Calander
+setName(Name)
+setCourseCode(Num, number)
+setPrefix(prefix)
+setTitle(title)
+setCredits(credits)
+setGrade(grade)
+setGradeType(gradeType)
+setStart(startDate)
+setEnd(endDate)
+addCatagory(newCatagory)
+calculateGrade()
+isFinished() : boolean
+toString() : String