|  |
| --- |
| Course |
| * course\_id: str * course\_type: str * course\_name: str * credit\_points: int * offered\_semester: list * scores: list |
| + \_ \_ init\_ \_ (course\_id, course\_type, course\_name, credit\_points, offered\_semesters)  + add\_score(score)  + get\_num\_students\_finished()  + get\_num\_students\_ongoing()  + get\_average\_score() |

|  |
| --- |
| Student |
| * student\_id: str * student\_name: str * student\_type: str * mode: str |
| + \_ \_ init\_ \_ (student\_id, student\_name, student\_type, mode) |

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| --- |
| Results |
| * courses: list * students: list * scores: dict |
| + \_ \_ init\_ \_ ()  + read\_courses(file\_name)  + read\_students(file\_name)  + read\_results(file\_name)  + score\_to\_gpa(score)  + display\_results()  + generate\_course\_report()  +save\_file() |

|  |
| --- |
| Main |
| * result\_file: str * course\_file: str * student\_file: str |
| + \_ \_ init\_ \_ (result\_file, course\_file, student\_file)  + check\_files()  + run\_program() |

Figure – Class Diagram (High Distinction Level)