**Program: Detail Cal with Totals, Averages, Record Selection, and Pagination**

# **Programmer: Timothy Lee \_\_\_\_\_\_\_Programming Logic\_\_\_\_\_\_ \_\_\_\_**

## Date: \_\_2/10/12\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- |
| **OUTPUT FIELD** | **SOURCE** | **DERIVED COMPUTATION** | **TOTALS** |
| Student Name | INPUT – Name$ |  | Total Students |
| Course ID #1 | INPUT – CourseID1$ |  |  |
| Course ID #2 | INPUT – CourseID2$ |  |  |
| Credit Hours #1 | INPUT – CreditHrs1 |  | Total Credit Hrs |
| Credit Hours # 2 | INPUT – CreditHrs2 |  | Total Credit Hrs |
| Grade One | INPUT – Grade1 |  |  |
| Grade Two | INPUT – Grade2 |  |  |
| Grade Points One | DERIVED – GrdPnts1 | CreditHrs1 \* Grade1 | Total Grade Pnts |
| Grade Points Two | DERIVED – GrdPnts2 | CreditHrs2 \* Grade2 | Total Grade Pnts |
| Sum of Grade Points | DERIVED - SumGrdPnts | GrdPnts1 + GrdPnts2 | Total Grade Pnts |
| Sum of Credit Hours | DERIVED - SumCreditHrs | CreditHrs1 + CreditHrs2 | Total Credit Hrs |
| GPA | DERIVED - GPA | SumGrdPnts / SumCreditHrs | Overall GPA |
| Total # of Students | DERIVED - TotStudents | TotStudents + 1 |  |
| Total Credit Hours | DERIVED - TotCreditHrs | TotCreditHrs + SumCreditHrs |  |
| Total Grade Points | DERIVED - TotGrdPnts | TotGrdPnts + SumGrdPnts |  |
| Overall GPA | DERIVED - OverallGPA | TotGrdPnts / TotCreditHrs |  |
| Line Counter | DERIVED – LineCounter | LineCounter + 1 |  |
| Page Size | DERIVED – PageSize | PageSize = 20 |  |
| Page Number | DERIVED – PageNum | PageNum + 1 |  |