

GPA Calculation

$$GPA = \frac{\sum_{k=1}^n G_k H_k}{\sum_{k=1}^n H_k}$$

where G_k is grade points earned for course k
 H_k is the number of credit hours for course k .

For example:

classes	G_k Grade	points	H_k Hours	$G_k \cdot H_k$
CSC1321	B	3.0	3	9
ASE1311	A	4.0	3	12
EXS1220	D	1.0	2	2
PHY1401	C	2.0	4	8
ENG1301	F	0	3	0

15 Total 31

$$\begin{aligned} GPA &= \frac{\sum G_k H_k}{\sum H_k} = \frac{3 \times 3.0 + 3 \times 4.0 + 2 \times 1.0 + 4 \times 2.0 + 0}{3 + 3 + 2 + 4 + 3} \\ &= \frac{31}{15} = 2.07 \end{aligned}$$