

## PHY2048 Overall Course Grade

Your overall course score (in %) is evaluated from the following four terms:

$$\text{Overall Course Score} = \text{Exams} + \text{Quiz} + \text{Homework} + \text{HITT}$$

**Exams:** Your overall exam score is given by

$$\text{Exams} = \frac{(Ex1 + Ex2 + Ex3 + Ex4)}{80} \times (60\%).$$

Ex1, Ex2, and Ex3 are your exam scores. The exams will be 20 problems each with one point per problem. Ex4 is the cumulative final exam which is also 20 problems and is weighted equally with the other exams, giving a total possible exam score of 80 points (hence the division by 80). The exams are weighted to count for 60% of your overall course score.

**Quiz:** Your overall quiz score is given by

$$\text{Quiz} = \frac{\sum_{n=1}^{12} Q_n}{60} \times (20\%).$$

$Q_n$  is your quiz grade for the for  $n^{\text{th}}$  assignment (0-5 points). These are summed over all 12 quizzes and divided by the total possible points  $12 \times 5 = 60$  and then weighted to count 20% of you overall course score.

**Homework:** Your overall homework score is given by

$$\text{Homework} = \frac{\sum_{n=1}^{15} HW_n}{(0.9) \times HW_{tot}} \times (15\%)$$

$HW_n$  is your homework grade for the for  $n^{\text{th}}$  assignment. These are summed over all 15 assignments of the semester and divided by the total number of assigned homework problems,  $HW_{tot}$ , minus 10% (forgiveness for network problems, etc. ...).

$$HW_{tot} - 0.1 \times HW_{tot} = (0.9) \times HW_{tot}$$

The homework portion is weighted to count for 15% of your overall course score. You can not get more than 15% for this portion so if the 10% forgiveness results in you getting more than 15%, you will only get the full 15%.

**HITT:** Your overall HITT score is given by

$$\text{HITT} = \frac{\sum_{n=1}^{all} HQ_n}{(0.8) \times HQ_{tot}} \times (5\%)$$

where HITT is the sum of all the HITT points,  $\sum_{n=1}^{all} HQ_n$ , you have received, divided by the total number of HITT points possible,  $HQ_{tot}$ , minus 20% (forgiveness for illness, missed classes, etc...).

$$HQ_{tot} - 0.2 \times HQ_{tot} = (0.8) \times HQ_{tot}$$

The HITT portion counts for 5% of your overall course score. You can not get more than 5% for this portion so if the 20% forgiveness results in you getting more than 5%, you will only get the full 5%.

**Grading Scale:** THERE IS NO CURVE IN THIS CLASS. Curves pit students against each other in competing for a better grade but education research has shown that learning from peers can be an effective learning aid both for the students who get the help and for those who give the help (the latter clarifying their thoughts in the process). You are encouraged to form study groups and work together to bring the entire level up. We would be happy to give all A grades in this class. Your overall course score will be calculated to 5 significant figures and there is no rounding off.

**Grade Scale (fixed)**

A	$\geq 85\%$
A-	$\geq 78\%$
B+	$\geq 71\%$
B	$\geq 65\%$
B-	$\geq 58\%$
C+	$\geq 51\%$
C	$\geq 45\%$
C-	$\geq 42\%$
D+	$\geq 38\%$
D	$\geq 35\%$
D-	$\geq 30\%$
E	$< 30\%$

**Example of How to Estimate Your Vourse Grade:**

Suppose we have completed exams 1 and 2, with your scores being  $Ex_1=12$ ,  $Ex_2= 15$ . Also, suppose that to date there have been 8 quizzes and your total score 30 points and suppose we have had 72 homework problems and your total score is 54. Also, lets assume that you have gotten  $\frac{3}{5}$  of a possible 70 HITT points. In this case,

$$\begin{aligned}
 Exams &= \frac{(12+15)}{40} \times (60\%) = 40.5\% & Quiz &= \frac{30}{8 \times 5} \times (20\%) = 15\% \\
 Homework &= \frac{54}{0.9 \times 72} \times (15\%) = 12.5\% & HITT &= \frac{\frac{3}{5}(70)}{0.8 \times 70} \times (5\%) = 3.75\%
 \end{aligned}$$

and

$$\text{Overall Course Score} = 40.5\% + 15\% + 12.5\% + 3.75\% = 71.75\%,$$

which corresponds to a grade of “**B+**”.