

## PHY2053 Overall Course Grade Formula

Your course grade is based on 100 maximum points. Your overall course points are determined from the following three terms:

### Overall Course Points = Exams + Quiz + Homework

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

$$Exams = (Ex1 + Ex2 + Ex3).$$

Ex1 and Ex2 are your exam scores. The exams will be 20 problems each with one point per problem. Ex3 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 60 points.

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

$$Quiz = \frac{Q_{sum} = \sum_{n=1}^{10} Q_n}{(0.9) \times 50} \times (20).$$

$Q_n$  is your quiz grade for the for  $n^{\text{th}}$  assignment (0-5 points). These are summed over all 10 quizzes and divided by the total number of quizz points possible,  $Q_{tot} = 10 \times 5 = 50$ , minus 10% (forgiveness for illness, missed classes, etc...):

$$Q_{tot} - 0.1 \times Q_{tot} = (0.9) \times Q_{tot} = 0.9 \times 50 = 45$$

and then weighted to count 20 points toward your overall course score. You can not get more than 20 points for this portion so if the 10% forgiveness results in you getting more than 20 points, you will only get the full 20 points.

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

$$Homework = \frac{HW_{sum} = \sum_{n=1}^{11} HW_n}{(0.9) \times HW_{tot}} \times (20)$$

$HW_n$  is your homework grade for the for  $n^{\text{th}}$  assignment. These are summed over assignments 1 through 11 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 20 points toward your overall course score. You can not get more than 20 points for this portion so if the 10% forgiveness results in you getting more than 20 points, you will only get the full 20 points.

**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. Your overall course score will be calculated to 3 significant figures and there is no rounding off.

**Grade Scale (fixed)**

A	≥ 90%
A-	≥ 85%
B+	≥ 80%
B	≥ 75%
B-	≥ 70%
C+	≥ 65%
C	≥ 60%
C-	≥ 55%
D+	≥ 50%
D	≥ 45%
D-	≥ 40%
E	< 40%

**H-ITT Bonus Points:** Your HITT bonus points are given by

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

where HITT is the sum of all the your HITT points,  $HQ_{sum}$ , 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 bonus points are normalized to a maximum of 5 points. You can not get more than 5 bonus points so if the 20% forgiveness results in you getting more than 5 points, you will only get the full 5 points. Your H-ITT bonus points are added to your overall course points as follows:

**Overall Course Points = Exams + Quiz + Homework + HITT**

You cannot receive more than 100 overall course points so if the H-ITT bonus results in you getting more than 100 points, you will only get the full 100 points.