PHY2048 Overall Course Grade Formula

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

**Exams (75% of course grade):** Your exam course points are given by

\[ Exams = \frac{(Ex_1 + Ex_2 + Ex_3)}{60} \times (75). \]

Ex1 and Ex2 are your in-term exam scores. The in-term 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 of 60 exam points. Your course exam points (max = 75) are computed by summing all three exams scores, dividing by 60, and then multiplying by 75. Hence, each exam problem is worth 1.25 course points.

**Quiz (15% of course grade):** Your quiz course points are given by

\[ Quiz = \frac{\sum_{n=1}^{10} Q_n}{(0.9) \times Q_{tot}} \times (15). \]

Q\_n is your quiz grade for the n\(^{th}\) quiz. Each quiz will be graded 0 to 5 points. These are summed over all 10 quizzes and divided by the total number of quiz 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 a maximum of 15 course points. You can not get more than 15 course points for this portion so if the 10% forgiveness results in you getting more than 15 course points, you will only get the full 15 course points. Hence, each quiz point is worth 0.3 course points.

**Quiz×Homework (10% of course grade):** Your homework scores will be weighted by how well you do on the quiz that follows the homework assignment. For example, if HW\_n is your score on the n\(^{th}\) homework assignment and Q\_n is your score on the n\(^{th}\) quiz, then you will receive the following quiz×homework grade

\[ (QxHW)_{n} = \frac{Q_n \times HW_n}{5}. \]

However, if your quiz score is \( \geq 4 \) points (out of 5 points) then you will receive full credit for the corresponding homework and quiz×homework assignment no matter what your homework score was on that assignment (even if you did not do the homework assignment!). Your quiz×homework course points are given by

\[ Quiz \times HW = \frac{\sum_{n=1}^{11} (QxHW)_{n}}{(0.9) \times (QxHW)_{tot}} \times (10), \]

(QxHW)\_n is your quiz×homework grade for the n\(^{th}\) quiz-homework pair. For the last homework assignment (Q×HW)\_11 = HW\_11. These are summed over all 11 pairs and...
divided by the total number of quiz×homework points possible, \((QxHW)_{tot}\), minus 10% (forgiveness for illness, missed assignments, etc…).

\[
(QxHW)_{tot} - 0.1 \times (QxHW)_{tot} = (0.9) \times (QxHW)_{tot}
\]

and then weighted to count a maximum of 10 course points. You can not get more than 10 course points for this portion so if the 10% forgiveness results in you getting more than 10 course points, you will only get the full 10 course points.

**H-ITT Bonus Points (max = 5):** Your HITT bonus points are given by

\[
\text{Bonus} = \frac{\sum a \text{HITT}}{(0.8) \times \text{HITT}_{tot}} \times (5)
\]

where Bonus is the sum of all your HITT points, \(\text{HITT}_{sum}\), divided by the total number of HITT points possible, \(\text{HITT}_{tot}\), minus 20% (forgiveness for illness, missed classes, etc…).

\[
\text{HITT}_{tot} - 0.2 \times \text{HITT}_{tot} = (0.8) \times \text{HITT}_{tot}
\]

The HITT bonus points are then weighted to count a maximum of 5 bonus 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 bonus points. Your H-ITT bonus points are added to your overall course points as follows:

**Overall Course Points = Exams + Quiz + Quiz×HW + Bonus**

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

**Grading Scale:** THERE IS NO CURVE IN THIS CLASS. Your overall course score will be calculated to 3 significant figures and there is no rounding off.

**Grade Scale (fixed)**

<table>
<thead>
<tr>
<th>Grade</th>
<th>(\geq)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>85</td>
</tr>
<tr>
<td>A-</td>
<td>80</td>
</tr>
<tr>
<td>B+</td>
<td>75</td>
</tr>
<tr>
<td>B</td>
<td>70</td>
</tr>
<tr>
<td>B-</td>
<td>65</td>
</tr>
<tr>
<td>C+</td>
<td>60</td>
</tr>
<tr>
<td>C</td>
<td>55</td>
</tr>
<tr>
<td>C-</td>
<td>50</td>
</tr>
<tr>
<td>D+</td>
<td>45</td>
</tr>
<tr>
<td>D</td>
<td>40</td>
</tr>
<tr>
<td>D-</td>
<td>35</td>
</tr>
<tr>
<td>E</td>
<td>&lt; 35</td>
</tr>
</tbody>
</table>