



Grade Calculation

1 Grade Components

The grade for the course is based on exams, assignments, and participation. The table below defines the weights assigned to each component:

Component	Weight Towards Grade
<i>assignment component</i>	8%
<i>participation</i>	4%
<i>quiz component</i>	18%
<i>midterm exam</i>	35%
<i>final exam</i>	35%

For the **Assignment Component**, **Hwk1**, **Hwk2**, and **Hwk4** are worth 1 point each, and **Hwk3** and **Hwk5** are three points each. The larger of **Hwk2** and **Hwk4** is used for the remaining point. The formula is

$$\text{assignment_total} = \text{hwk1}/2 + 3 \cdot \text{hwk3}/12 + 3 \cdot \text{hwk5}/90 + \max(\text{hwk2}/85, \text{hwk4}/50)$$

The **Quiz Component** is the sum of the four best out of five normalized quiz grades, weighted to be 18 points in total. A normalized quiz grade is the quiz grade divided by the maximum possible grade for that quiz and multiplied by $4.5 = 18/4$, so that the total is 18. Thus, if q_k is the grade on Quiz k , and m_k is the maximum possible grade for Quiz k , then

$$\text{quiz_total} = 4.5 \cdot \left(\sum_{k=1}^5 q_k/m_k - \min_{k=1}^5 \{q_k/m_k\} \right)$$

The **Participation Component** is the total number of non-anonymous polls in which a student can be verified to have participated, divided by 4. There will be a total of 16 polls counted towards this component by the end of the semester. Verification of participation requires that the student used their first and last names as the Zoom user name in that class.