

**Numerical Algorithms Applied to Computational Quantum Chemistry**  
**Grading Rubrics for Homework 2**

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September 18, 2024

1 GRADING RUBRICS FOR CHEM 279 HW2

1. The homework consists of two problems, with each problem valued at 6 points.
2. Key Points for Consideration:
  - a) **HW2.1:** Select a numerical method to compute the 1-D overlap integral. Choose the integration interval and the number of segments judiciously to ensure convergence of the integral within certain limits. Pay special attention to more diffused Gaussian functions. You will be graded based on the accuracy of your results against a predefined test set.
  - b) **HW2.2:** Ensure you calculate the correct number of integrals when performing overlap integration between two pairs of shells. You will be graded based on your results against a predefined test set.
3. After completing the code, remember to submit the link to your private repository to Gradescope so that your GSI is informed that you have finished your homework.