

**Assignment 1**  
Due 9/7/2021

*Short Answer Problems*  
*Hint: Refer to the DVDs and Appendix A*

1. Define the difference between a steady state run and a transient run. Is one method preferred over the other? Explain.
2. Name 5 hydrodynamic components and give a short explanation of each.
3. Define the following search variable codes:
  - TEMPF
  - TEMPG
  - TIME
  - VOIDF
  - VOIDG
  - P
  - TUREFF

*Application Problem*

Form a group of 3 students and start to discuss the final project submit the following:

1. Names of your group members
2. What reactor type will you be modeling
3. What transient you plan to model