 ***MSIM 603: Simulation Design***

***Department of Modeling, Simulation and Visualization Engineering***

***Old Dominion University***

**Programming Assignment Four**

Your assignment is to provide the C++ code to complete the methods of the SimObj class discussed and provided in class using the SimObj approach. The SimObj header file is also provided. SomObj has the following methods that must be implemented:

* void \*GetEvent()
* void RunSimulation
* void RunSimulation(Time endTime)
* Time GetTime()
* bool HasEvent()
* void ScheduleEventIn(Time deltaTime, Event \*ev)

Include comments in your code to ensure your methods can be implemented by someone not familiar with your design. Your implementation must allow for adding events between events already scheduled in time.

Develop a small main method that demonstrates your code by adding at least five nodes at various event times to include at least one event added between those already existing. Your main code should display the event list once it is set.

**Grading:**

Design: 10 pts

Implementation: 20 pts

Results: 10 pts