# **SCUDEM Scoring Rubric**

**Overview:** Team Presentation will be scored holistically on a 5-point scale: 1 (poor work) to 5 (excellent work). The score will consider three aspects: execution, communication, and correctness. To earn a 5, work must be *well-executed*, *well-communicated*, and *essentially correct*.

The online YouTube 10-minute Presentations will be scored by invited judges. Video web addresses will be provided by SIMIODE to all judges. Easy opportunities for submitting score and comments for each team judged will be provided as well.

### **Definitions:**

#### Well-Executed

- Applies a strategy that makes sense for the given question
- Applies appropriate mathematical concepts and processes
- Does not offer superfluous material
- Technology is used appropriately
- Work is logical and includes a reality chec of the final answer

#### Well Communicated

- Readable: Work stands alone (retains context) and is neat and professional
- Organized: Provides a clear logical flow
- Provides detail, rationale, explanation
- Work is free from grammatical errors
- Mathematical composition, terminology, and notation is correct
- Results and/or conclusions are clear

#### **Essentially Correct**

- Precision: Performs mathematical operations correctly
- Makes and uses assumptions clearly
- Uses an appropriate degree of accuracy
- Draws correct inferences from graphical or numerical data
- Any computational or algebraic errors are trivial and isolated
- Correct units are used

# **Score Descriptors:**

5	4	3	2	1
Excellent	Very Good	Good	Fair	Poor
Well-executed, well- communicated, essentially correct. Offers reflection on model.	communication flaws or some errors. Describes model development.	with some non-trivial errors or inconsistent communication. Conveys basic idea and	possibly with non-trivial	with fundamental errors Lack of clarity in defining terms and explaining

## **Final Awards:**

Presentation scores will be averaged from all judges and tabulated scores ranked high to low. Awards will be determined for teams as follows: Outstanding, Meritorious, Successful. All teams are expected to complete and defend a model involving differential equations and thus merit some award. Additional comments from judges are encouraged and will be distributed to student teams and coaches along with award certificates via electronic means after all judges' data have been received.

Final award information is NOT published, rather each team and coach are notified of their award and receive certificates accordingly. It is up to them as to how they disseminate this information. SCUDEM is not about competition, but rather about individual and team challenge and growth. Outstanding award teams' videos will be published on SIMIODE's YouTube Channel.