## MARCH 2020

Open to all students whose mathematics classes come solely from the following list:
Math 92, Math 105, Math 151, Math 161, Math 162, Math 163, Math 175, Math 177, Math 287, Math 185, Math 241, or Math 277 or their equivalent.
Directions: Write a complete solution to the problem below showing all work. Your paper must have your name, W\#, and Southeastern email address. Solutions are to be placed in the envelope for Problem \#1 located in the Department of Mathematics Office, Fayard 308 by 12:00 noon, Tuesday, March 31. No late papers will be accepted.
All papers with a correct solution will be entered in a drawing for a great prize!
Questions concerning the problem of the month should be sent to either Dr. Tilak de Alwis (tdealwis@ selu.edu), or Dr. Dennis Merino (dmerino@selu.edu)

## PROBLEM: Great Pyramid of Giza!

The Great Pyramid at Giza was originally 483 feet tall, and it had a square base that was 756 feet on a side. It was built from rectangular stone blocks measuring 7 feet by 7 feet by 14 feet. Such a block weighs seventy tons. Approximately how many tons of stone were used to build the Great Pyramid? The volume of a pyramid is one third the base area times the height.
(Problem courtesy of Exeter Academy Teaching Materials)

