

Online Bridge Design Competition Rules

Eligibility

To be eligible for this competition, students must attend a school that is registered for engineer's day and for this competition ahead of the competition date.

Entering the Competition

This competition will be completed in a completely virtual manner via *Bridge Designer* (formerly known as *West Point Bridge Designer*). This program can be downloaded for free at on the bridge designer website (<https://bridgedesigner.org/download/>).

Competition Format

Bridge Designer is an extremely customizable program with a wide variety of site configuration and load combination possibilities. The student chapter of ASCE here at UTK has chosen one of these setups for all students to design a bridge around. This site configuration will automatically be setup when entering the 6-digit competition code when prompted on the Bridge Designer program. This code will not be sent out until the week of the competition to facilitate creative solutions and minimize external help. Students can feel free to play around on the program without a competition code to practice before the code is sent out. To be scored, students should save their design and send the .bdc file to ledwar35@vols.utk.edu before 11:59 pm on Wednesday, October 28, 2020.

Scoring

The winning bridge in this competition will be the bridge that successfully satisfies the applied loading condition in the given site configuration at the **lowest cost**. Additional awards may be given out for other parameters based on creativity, ingenuity, etc. The winner will be announced during engineer's day (October 29) live via zoom. Exact time is TBA.