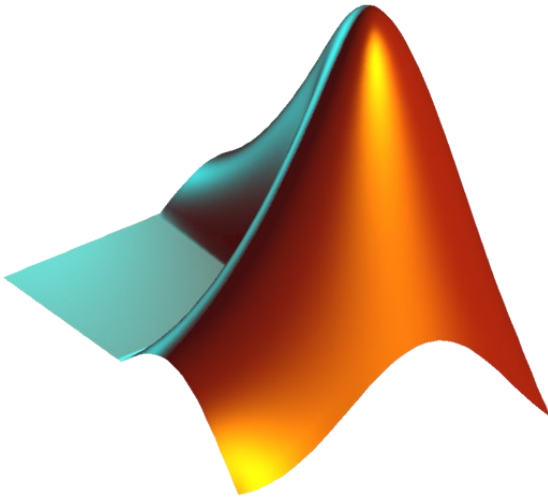


# System Modeling Olympics!

For current juniors and seniors on February 31, 2024

## Engineering Challenges, Week-Long Competition, Prizes, and Networking!

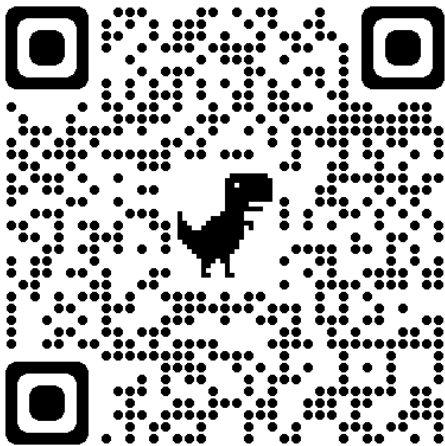
Participants will use their knowledge from ME 355 to compete directly against each other at Valpo!



Numerical Methods (\$1000 Grand Prize): Solve problems using Taylor Series, Finite Divided Difference Methods, Root Finding, **OPTIMIZATION**, Interpolation, Integration and ODE and BVP solvers!

### Mini Topics

Campers will have the opportunities to participate in shorter competitions in the areas of numerical error, V&V, pseudocode and flowcharting, and MATLAB and Python coding!



A week-long competition in two categories!

System Modeling (\$1000 Grand Prize): Competitors will put together their skills to model falling objects, projectile motion, static beams, heat transfer, swinging objects, and more! In addition, participants will have one unknown model type!



### Application and Deadlines

Participants must have completed ME 355 by 2024!

Online application is due by December 25, 2023.  
Applications will be evaluated starting January 1, 2024.

### Contact

Only the best **ONES** should enter at [tinyurl.com/bdzkp4f](https://tinyurl.com/bdzkp4f)