

James Webb Telescope



Credit: NASA

Do you want to instill in your middle/high school students the desire and motivation to learn and understand the mathematics they need to pursue more coursework in science and engineering?

[Online workshop for Middle and High School Math and Science Teachers](#)

GES 692: Computational Astronomy- A Universe of Calculations

- The course starting September 7, 2024, will be offered via Zoom on six Saturdays: September 7, September 21, October 5, October 19, November 2, and November 16, 2022, at 9am – 12 pm Mountain Time (11 am – 2pm Eastern Time, 10 am – 1pm Central Time, and 8 am – 11am Pacific Time).
- Maximum of 20 participants (first come, first served).
- Earn one graduate credit, with 20 hours participation during the workshop.
- The tuition for the workshop is \$40.

Description: Teacher-participants will learn about math applications used in astronomy and space exploration, with the goal of being able to use the knowledge in their own classrooms. The topics to be discussed include measuring the speed of light, counting galaxies, eclipse cycle, mathematics of rainbows, dimensional analysis, Cepheid variable stars, Kepler's laws, space weather, ozone hole over Antarctica, etc. Lesson plans for the middle and high school classroom will be developed for courses such as math, physical science, and biology.

Course Prerequisites: Successful completion of a bachelor's degree program, K-12 teaching experience in Math or Science, and familiarity with Algebra, Trigonometry, and Windows Excel spreadsheets.

To Register click on the link: <https://forms.gle/L2oGhrVKGcQPSH1a8>

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