

# NEW Courses Available from ITEA!

## *Scientific & Technical Visualization I and II*

Scientific & Technical Visualization I and II are 36-week courses focused on the principles, concepts, and use of complex graphic and visualization tools as applied to the study of science and technology. Students use complex 2D graphics, 3D animation, editing, and image analysis tools to better understand, illustrate, explain, and present technical, mathematical, and/or scientific concepts and principles. Emphasis is placed on the use of computer-enhanced images to generate both conceptual and data-driven models, data-driven charts, and animations. Science, math, and visual design concepts are reinforced throughout each course.

This curriculum was originally developed to help North Carolina teachers offer a focused, demanding, and exciting program of study addressing the core concepts and principles of scientific visualization. Scientific visualization involves theoretical mathematics, specialized computer programming, and the development of novel solutions to help scientists visualize and comprehend science problems of the highest order. The goal for this course is to help high school level students gain experience using a multitude of computer graphic software, develop problem-solving skills, become independent learners, and acquire the intellectual confidence required to help them be successful with their post-secondary education.



### Scientific & Technical Visualization 1 Topics:

- Leadership Development
- History and Impact of Scientific & Technical Visualization
- Visualization Tools
- Data Visualization
- Static and Dynamic Visualization

**(P242CD) \$26.00 / Members \$21.00**

### Scientific & Technical Visualization 2 Topics:

- Leadership Development
- Advanced Tools of Visualization
- Advanced Principles of Visualization
- Advanced Static and Dynamic Visualization
- Advanced Scientific Visualization
- Preparation for the Future

**(P243CD) \$26.00 / Members \$21.00**

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