

A. *Pendulum* was written by David J. Fischer. It was developed in support of the Integrated First-Year Curriculum in Science, Engineering, and Mathematics at Rose-Hulman Institute of Technology. This curriculum project is supported by the National Science Foundation, the General Electric Foundation, and Lilly Endowment, Inc. If you are interested in this or any other application written for the Rose-Hulman Institute of Technology Integrated First Year Curriculum, please contact us at **ifycsem@nextwork.rose-hulman.edu**. The following people are currently serving as professors for the curriculum and would welcome your comments and questions:

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- B. *Pendulum* best fits in the physics category.
- C. *Pendulum* is designed to simulate pendulum motion. It allows the user to set the parameters of a simple pendulum including a forcing function. It then simulates and displays the motion of the pendulum which can be viewed at any orientation in three dimensions. In addition, this application allows the user to compare simulated data with experimental data.

- D. *Pendulum* is used as part of the Integrated First Year Curriculum in physics classes to demonstrate the principles of potential and kinetic energy, conservation of energy, simple harmonic motion, tension and acceleration. The ability of the application to import experimental data makes it useful as a laboratory tool.
- E. *Pendulum* was developed under NeXTSTEP 2.1.
- F. *Pendulum* requires no special installation.
- G. The Documentation folder included with the application is required for online

documentation built into the application. If it is removed, the application will still function properly, except for Help.