target 15 feet away. There are three settings on the device and each setting will change its performance. One of the settings has six options, the second has five, and the final has four separate settings (mathematically displayed \(6! \times 5! \times 4!\)). There are a grand total of 2,073,600 combinations of settings and only one of them will shoot the projectile the desired 15 feet.

“Through experimentation, students learn to mathematically and scientifically determine the optimal performance of simple and complex machines,” Newtown explained.

One of Newtown’s previous experiments includes scientifically testing consumer brand double A batteries.

You may view the results of these experiments in the following PowerPoints:

- A PowerPoint presentation about his findings
  www.canton.edu/csoet/itm/ppt/
  bunny_duracell.pps

- Newtown’s presentation on the Design of Experiments
  www.canton.edu/csoet/itm/ppt/doe.pps

For More Information

Admissions & Financial Aid
1-800-388-7123 or 315-386-7123

Athletics & Recreation 315-386-7335

Educational Opportunity Program 315-386-7226

Accommodative Services 315-386-7121

TDD Information Line 315-386-7901

Orientation Programs 315-386-7018

"You can get a really good job with our highly-successful two-year engineering technology program, you can get an even better job with our Industrial Technology Management (ITM) four-year degree."

—Michael J. Newtown, Interim Program Director
Industrial Technology Management is an interdisciplinary bachelor’s degree appropriate for a wide variety of students in the robust technology fields. It is designed to merge each student’s particular technology-based educational interest with a blend of business courses that will expand their high-level employment opportunities.

Many employers are looking for a technical background with the business savvy to get the job done.

The Nuts and Bolts

When beginning the program, students take a number of core-courses in each of the college’s hands-on engineering technology programs, like:

• Civil Engineering Technology
• Mechanical Engineering Technology
• Air Conditioning Engineering Technology
• Electrical Engineering Technology
• Construction Technology Management

Students can then select a concentration that best fits their personal interests, custom designing a four-year education to best fit their career ambitions. Many successful two year engineering students have transitioned to supervisory and management roles. ITM leverages the discipline of technology to prepare graduates for leadership in industry.

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Students will learn:

• Successful experiment design.
• Project management skills.
• How to succeed in a team environment.
• Leadership skills for their future Careers.

Welcome to SUNY Canton OnLine (SUNY Canton OL)

SUNY Canton OL allows you to earn a quality SUNY Canton education without leaving home. It’s courses without classes, and you can learn from almost anywhere in the world.

SUNY Canton OL is a collaborative learning environment.

Students interact with their professors, fellow students, professionals, and others. They debate issues, share ideas, and work to solve problems and comprehend concepts.

Occupational Outlooks:

According to the New York State Department of Labor Occupational Outlook reveals the following outlook through 2010:

• 14.9 percent increase in Environmental Engineering
• 9.4 percent increase for all types of Management Occupations
• 11 percent increase for operations specialties managers
• 18 percent increase for construction managers
• 7.5 percent increase for supervisors of maintenance and repair workers
• 7.5 percent increase for supervisors of mechanics, installers, and repairers
• 13.3 percent increase in Supervisors and Managers of Construction Trades

Perfect by Design

One of the highlights of the core courses is a Design of Experiments class. Students investigate the optimal settings on a given subject to determine the best quality or create the most predictable outcomes.

An example of a Design of Experiments project involves a rubber-band driven desktop catapult, named a Statapult. The Statapult has the fantastic power of throwing a small rubber ball, and the operator has to hit a